INDUSTRIAL TRAINING REPORT

SYSTEM AND NEW MEDIA DEPARTMENT,
THE OFFICE OF LIBRARY AND KNOWLEDGE MANAGEMENT,
UNIVERSITI MALAYSIA KELANTAN, CITY CAMPUS,
LOCKED BAG 36, PENGKALAN CHEPA,
16100 KOTA BHARU,
KELANTAN DARUL NAIM

BY
NIK AMIERAH NOORNADRAH BINTI MA'ROOF
2012768997

FACULTY OF INFORMATION MANAGEMENT UNIVERSITI TEKNOLOGI MARA KELANTAN

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DECLARATION

I hereby declare that this is my original work. I have not copied from any other

student's work or from other sources. I am also declare that no part of this report has

been published or submitted for publication except where due to reference or

acknowledgement is made explicitly in text, nor has any part been written for me by

another person.

Signed by

2012768997

Date of submission: 9 July 2015

ABSTRACT

The academic writing report paper is based on the period from 1 February 2014 to 30 June 2014 in System and New Media Department at The Office of Library and Knowledge Management, Universiti Malaysia Kelantan. During the practical training period, the trainee had been exposed with a various new stuffs that never been taught during the studies. In fulfil the core requirement as a Bachelor of Information Science (Hons.) Information System Management student, the trainee was given the task to get involved in several systems development projects includes Online Bibliography of Entrepreneurship Website, UMK Press Online Book Store System, Autonomy Audit Repository System, Digital Kelantan Collection and UMK Library HelpDesk Support Ticket System. However, most of the development process in developing those systems was no required the trainee to come out with coding instead of installing the open source platform such as Drupal, Omeka, OpenCart and osTicket. Therefore, that has result the trainee in skipping a few steps of System Development Life Cycle. Sometimes, the trainee feels like the responsibility towards the system developments is as a database administrator not a developer.

Besides all of the system development tasks, the trainee also required to organize a few events and outreach programs includes to conduct user education and training. Besides that, the trainee was also helping the organization in doing the library tasks and records management work. Surprisingly, the trainee feels that all of those works done was related with the course work that has been learnt during the studies in Faculty of Information Management, UiTM.

Keywords: system development, open source platform, Drupal, Omeka, OpenCart, osTicket, database administrator, events, outreach program, user training, library task, records management.

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The trainee also would like to thank the faculty supervisor, Madam Khadijah binti Abdul Rahman in guiding the trainee throughout this internship and report writing. The trainee had some difficulties in completing the report, but she had explained and searching for the solution patiently until the problem was solved.

The families who have given their advices and support no matter in physically or mentally was help the trainee a lot in completing this internship. Thank you for giving the trainee encouragement to strive.

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Thank you.

List of Abbreviation

CCTV	Closed-circuit television	
CD	Compact Disc	
CLTS	Chief Librarian Talk Series	
ERD	Entity Relationship Diagram	
PKS		
PPPI	PPPI The Office of Library & Knowledge Management, UMK	
RFID		
SK		
SLiMS		
SMK		
UiTM	Universiti Teknologi MARA	
UNESCO	The United Nations Educational, Scientific and Cultural Organization	

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Chapter 1: Introduction

1.1 Background of the Organization

The Office of Library and Knowledge Management (PPPI) is one of the most important administration unit that serving Universiti Malaysia Kelantan (UMK) accordance to their aspires which to help in propel the country to become a high-income nation by making headway in proliferating the human capital so as to spur on the country's development. Hence, PPPI is strive to provide best information and reference services for their users in line with every changing trends in information and communication technology and the current needs of UMK itself.

1.1.1 Geographical Position

PPPI have been established since 2007 which is located in UMK City Campus, Pengkalan Chepa, Kelantan. However, when the number of campuses increased from time to time which when sum them up is equal to three of total campuses, each campus also got their own branches of PPPI in order to fulfil the needs of their students and staffs in providing the education and learning resources. Thus, the other two branches of PPPI exclude City Campus are as the main branch are located in UMK Kampus Bachok and UMK Kampus Jeli.



Figure 1.1.1

Main entrance of PPPI

1.1.2 Department / Unit

Through the combination of library and knowledge management center into a roof, the department of management in PPPI are divided into two clusters called Collection Development Cluster and Knowledge Management Cluster. Table 1.1.2.1 shows the departments categorized under each clusters.

Table 1.1.2.1
Departments of PPPI

Collection Development Cluster	Knowledge Management Cluster
Publication and Intellectual Property Department	 Information Services Department Serials and Digital Collections Department Special Collection and Entrepreneurship Management Department Research and Inovation Department Archives Department Multi Camera Production (MCP) Unit

1.1.3 Vision

Aspires to be the leading knowledge centre of entrepreneurial excellence through development of relevance collection, efficiency of information services and latest information technology empowerment.

1.1.4 Mission

Providing the high quality resources, infrastructure and services in supporting the instructional, learning and research programs especially in entrepreneurship field.

1.1.5 Objectives

- i. To provide and manage information based services for its users
- ii. To provide the best quality information services and facilities
- iii. To manage information and knowledge culture amongst UMK's community
- iv. To be effective repository institution for the university's

1.1.6 Customer Charter

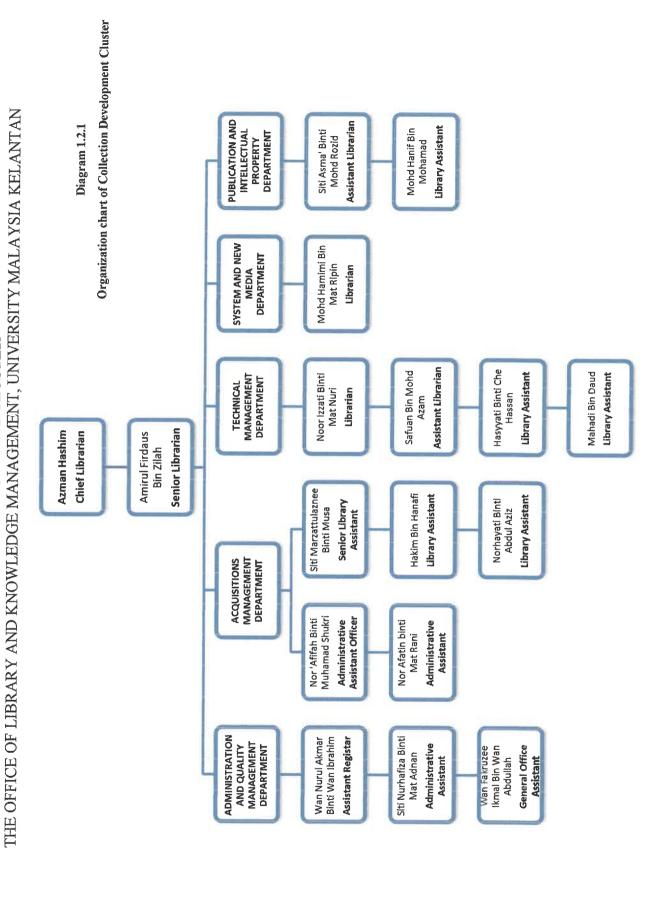
- i. PPPI are committed to serve their user with efficient services towards the submission:
- ii. The process of loan and return books and can be done within a period of 3 minutes
- iii. Service request feedback of library material within less than 3 days
- iv. Provide a source with the most relevant and up to date in line with the field of expertise of universities to support teaching, learning and inquiry
- v. Provide the best and efficient services to every library user
- vi. Provide the most convenience and conducive area to support the learning and research purpose

1.2 Organizational Structure

The organization structure sketched is divided into two clusters of PPPI which are the Collection Development Cluster and Knowledge Management Structure.

ORGANIZATION CHART

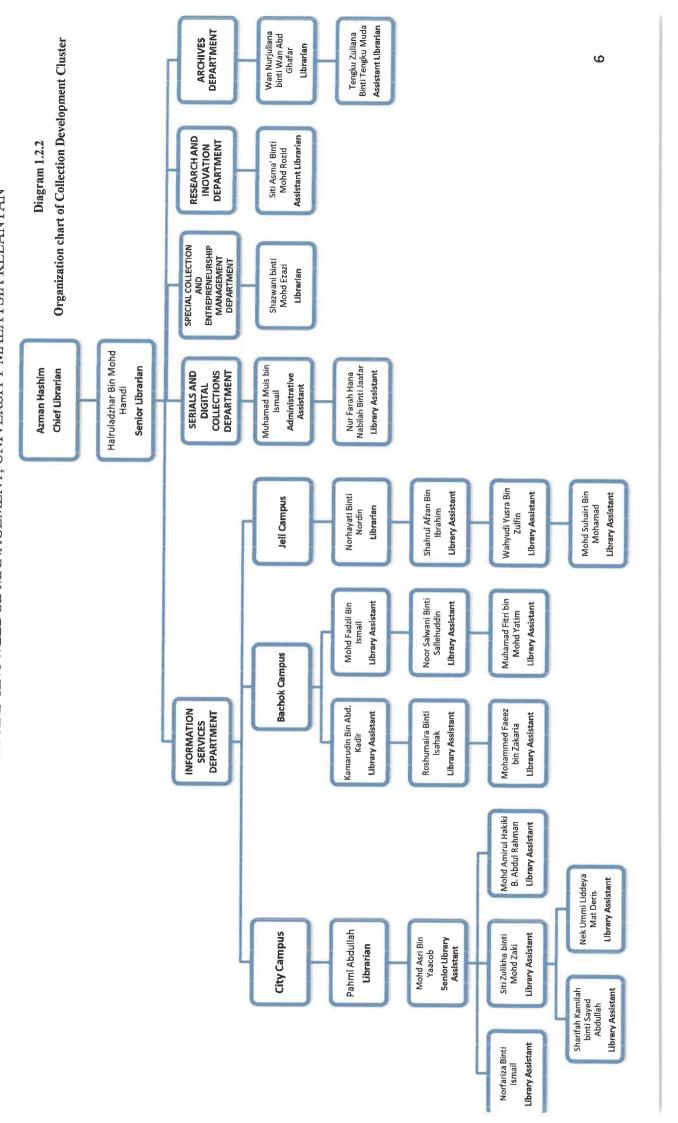
COLLECTION DEVELOPMENT CLUSTER



ORGANIZATION CHART

KNOWLEDGE MANAGEMENT CLUSTER

THE OFFICE OF LIBRARY AND KNOWLEDGE MANAGEMENT, UNIVERSITY MALAYSIA KELANTAN



Chapter 2: Organization Information

2.1 Departmental Structure

2.1.1 System and New Media Department

The intern was assigned to be monitored by System and New Media Department. This department is located under the Collection Development Cluster and managed by a Senior Librarian, Mr. Amirul Firdaus bin Zilah and a Librarian, Mr. Mohd Hamimi Bin Mat Ripin.

Diagram 2.1.1.1
Organization chart of System and New Media Department



2.2 Department Function

2.2.1 Managing and Controlling Computer Hardware and System Applications

Basically, the System and New Media Department is responsible in ensure the ICT equipment and system application of PPPI were managed and controlled effectively and efficiently. Thus, the work scope of the staff in this department includes managing and controlling computer hardware as well as managing and operating system maintenance based on the complaint made by the PPPI staff. For this time being, there are about five system applications that has been maintained and controlled by the System and New Media Department includes SOPAC, E-PAMS, I-KNOW, UMK-IR and MYATHENS.

2.2.2 Monitor Library Management System

Moreover, the System and New Media Department also have to take the responsibility in monitoring the Library Management System that has been applied by PPPI which is Virtua. Virtua is a full-function library management system, providing management of circulation, cataloging, serials, acquisitions, course reserves and more. All functions are fully integrated, allowing any staff user to access any function at any time according to their library-assigned permissions.

2.2.3 Maintain the Official Portal of PPPI

Apart from that, maintaining the Official Portal of PPPI also one of the responsibility of the System and New Media Department. The portal was developed by using Joomla! Version 3.3 Platform which is so called the most famous free and open-source content management system (CMS) for publishing web content.

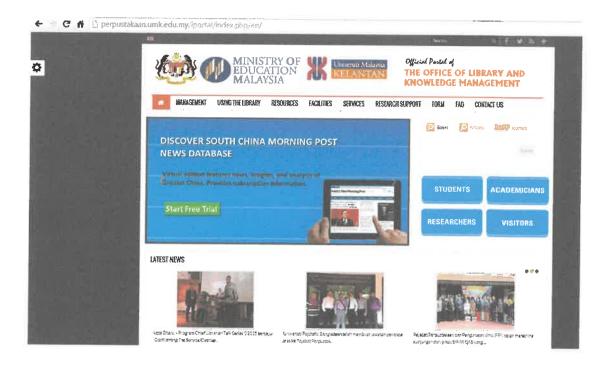


Figure 2.2.3
The Official Portal of PPPI homepage

2.2.4 Monitoring & Maintaining Data Center and Server

Data center and server also had been stated as one of the System and New Media Department's responsibility that required it to be monitor frequently. Backup of data work is one of the tasks that related to the data center and server maintenance that has been done by the staff almost every day. The physical servers of PPPI are now located at the Cyberjaya. Hence, the servers just need to be monitored virtually to conduct the maintenance job.

Chapter 3: Industrial Training Activities

3.1 Training Activities

3.1.1 Events & Outreach programs

PPPI has putting their trust to the interns of their organization to lead and conduct all of the events and outreach programs above. Practically, most of the events were proposed by the interns and monitored by the organization supervisors and PPPI staffs.

3.1.1.1 Library Open Day: Let's Explore!

This program was held in PPPI and run for about three days from 17 March to 19 March 2015. The trainee needs to collaborate with other trainees who also undergoing their industrial training in PPPI in order to run this event. The organizing of this event was intended to give the opportunity to the UMK students in making the library as their second home. A lot of activities were organized on those days and having such a great feedback from the students.

3.1.1.1 Before the event

The trainee was appointed as the committee of publicity for that program. Therefore, the project manager was giving the responsibility to the trainee in designing the bookmark of the event and handling them to the students as the door gift. Appendix A shows the bookmark designed by the trainee. On the other hand, the trainee also had designed the signage to be put in each station of the games. Refer Appendix B to see the example of the signage. Apart from that, the trainee also took part in setting the games which is OPAC explorace where it required the trainee to gather a few call numbers of the books

existed in the library randomly in every shelf and put them into the envelopes and it has been used by the students to find the exact location of the books.

3.1.1.1.2 During the event

During this event, the trainee was given responsibility to monitor the game that called "Dance Battle". This game had required the trainee to control and operate the Microsoft Xbox and make sure the game run smoothly directly for three days of the events. This game was held in the Media Room area of the PPPI.



Figure 3.1.1.1.2

Dance battle activity

3.1.1.2 Program Literasi Maklumat Sempena Hari UNESCO (Strategi Bijak Belajar Bersama Dr. Shukri Abdullah)

An event called "Program Literasi Maklumat Sempena Hari UNESCO (Strategi Bijak Belajar Bersama Dr. Shukri Abdullah)" has been proposed by one of the the interns in PPPI. This one whole day program was occurred dated 26 March 2015 at Sekolah

Menengah Kebangsaan (SMK) Tan Sri Mohamed Yaacob, Tanah Merah, Kelantan. The objective of this event was to expose the students of SMK Tan Sri Mohamed Yaacob the most effective and efficient information literacy strategies by targeting the students' form 4, 5 and 6. Hence, Dr. Shukri Abdullah, one of the well known motivational book writer was invited as the speaker of the program. There were about 323 participants counted who's attended the program. The trainee was given the position as a member of the Special Committee duties during the program.



Figure 3.1.1.2.1

Program Literasi Maklumat Sempena Hari UNESCO (Strategi Bijak Belajar Bersama Dr. Shukri
Abdullah)

3.1.1.2.1 Before the event

The trainee was helped in preparing the souvenirs to the participants by packing them up into the goodies bags two days before the program. Instead of that, preparing the certificates of participants and committee also done by the trainee from printing to stamping the logos of PPPI to show the proof that it is the genuine certificate that produced by PPPI.

3.1.1.2.2 During the event

The trainee is responsible to setting up the foods to be given to the participants. It is include two times of meals which are breakfast and lunch.

3.1.1.3 Literature and Reading Guidance Program

Previously, PPPI's convergence services only focused on the user UMK students and staff. However, after eight years of operation PPPI has developed their wings by providing facilities and services not only on campus but also to the surrounding community, especially children. In conjunction with the World Literacy Day UNESCO, a program called "Literature and Reading Guidance Program" has been organized on 7 April 2015 at PPPI, UMK which intended to bring children to read and at the same time experience the thrill of acquiring knowledge. There were about forty students of Sekolah Kebangsaan (SK) Tanjung Mas, Kota Bharu aged nine to twelve years who joint this program. During the whole day, the children were prepared with various interesting activities and games.



Figure 3.1.1.3
Literature and Reading Guidance Program

3.1.1.3.1 Before the event

The intern was voluntarily designed the Crossword Puzzle for one of the games of the program. Besides that, as the intern already have the experience in preparing the OPAC

explorace during the Library Open Day, project manager was appointed the intern to setting up a game with the same concept but a little simpler than the OPAC explorace called Library Hunter as the participants were just the primary school's students.

3.1.1.3.2 During the event

The students of SK Tanjung Mas then divided into eight groups and each group was assigned a facilitator to conduct them which is the interns of PPPI. The intern was required to handle the library orientation session for each groups and control the students during the games occurred. Apart from that, the trainee also responsible to lead and handle the Library Hunter game.



Figure 3.1.1.3.2.1 Library orientation



Figure 3.1.1.3.2.2 Library hunter

3.1.1.4 Program Bersama Sekolah Angkat "Library is the Bridge of Knowledge"

"Library is the Bridge of Knowledge" was a program with the intellectual telematch or explorace concept that the participants were include the Resource Center Perfect (PSS) from three UMK's adopted schools which were SK Bukit Marak, SMK Tan Sri Mohamed Yaacob, and SMK Gaal. This program was held on 25 April 2015 located at the UMK campus areas. It has been participated by 126 students from the three schools.

3.1.1.4.1 Before the event

The trainee was helping in packing up the hamper and the goodies bag. Apart from that, the trainee also giving some hand in prepared the certificate of participation.

3.1.1.4.2 During the event

On the day of "Library is the Bridge of Knowledge", the trainee was responsible to became one of the facilitators and monitored the students. It was decided that the trainee have to took over the third checkpoint of the explorace which required the students to use their imagination in completing the puzzle provided.



Figure 3.1.1.4.2.1 Puzzle game

3.1.1.5 Talk on Personal Digital Fabrication or "Maker" Technology Revolution by Sarah ziebell

The intern has been organized a talk that was presented by Sarah ziebell, a public diplomacy Information Resource Officer at U.S. Embassy, Jakarta. It was held on 7th May 2015 at C202DT, UMK. The title of the talk which is Personal Digital Fabrication or "Maker" Technology Revolution was discussed on how "Maker" digital fabrication is empowering people to make things for themselves by harnessing 3D printing and

related technology which also has the potential to support the entrepreneurship. The targeted audience for this talk was the librarian from all type of libraries in Kota Bharu as well as the teacher librarian.

3.1.1.5.1 Before the event

As the trainee was given the responsibility to be the committee of protocol and invitation, the mailing and fax of the invitation letter were done to the librarians around Kota Bharu. After done sending the invitation letter, the trainee has to follow up with the librarians through phone calling to make sure they already received the letters and make the confirmation of attendance.

3.1.1.5.2 During the event

The trainee has to usher the librarians to the place of the talk happened which was C202DT that is not located in the PPPI area. Hence, it was hard for the librarians to find the place.



Figure 3.1.1.5.2.1

Talk on Personal Digital Fabrication or "Maker" Technology Revolution by Sarah ziebell

3.1.1.6 Program Transformasi Pusat Sumber SMK Gaal

This program was the collaboration between PPPI with UMK adopted school, SMK Gaal, Pasir Putih in order to transform the SMK Gaal Resource Center physically as well as the way they manage the resource center. Undoubtedly, the program was held in SMK Gaal Resource Center on 15th to 17th May 2015 and was launched by UMK Vice Chancellor, YBhg. Prof. Dato' Dr' Mortaza bin Mohamed.



Figure 3.1.1.6.1

Launching ceremony of Program Transformasi Pusat Sumber SMK Gaal

3.1.1.6.1 Before the event

In order to make the preparation for the event, the trainee went to SMK Gaal two days before the actual event with other trainees and discussed on how to transform the resource center.

3.1.1.6.2 During the event

The trainee was required to spend three days and two nights from 15th May to 17th May at SMK Gaal in order to help in transforming the resource center.

3.1.1.7 Chief Librarian Talk Series 3 2015 (CLTS 3 2015)

Chief Librarian Talk Series in an annual program organized by PPPI with function to uncover all sorts of knowledge and skills remain in the minds of chief librarian in all libraries across the country to share. The theme for this third series of Chief Librarian Talk was "Confronting the Service Overlap between Libraries and Computer Centers". Participants of the talk is open to all Chief Librarian and librarians involved in the management of public or private institutions Library, Public Library, Library Polytechnic, School Libraries and other related position regardless of grade. It was held in Hotel Perdana Kota Bharu on 4th June 2015.



Figure 3.1.1.7.1

During Chief Librarian Talk Series 3 2015 (CLTS 3 2015)

3.1.1.7.1 Before the event

The trainee was responsible as the committee of protocol and invitation throughout the event. Hence, the works that the trainee was involved before the event include sending out the invitation letter through email, fax as well as mail. After doing the mailing job, the trainee has to done follow up session with the participants to make the confirmation of their attendance. On the other hand, the trainee's responsibility was preparing the

speech text for Vice Chancellor and Chief Librarian of UMK and at the same time prepared the points that need to be referred by the moderator during the talk. There was also a rehearsal at Hotel Perdana Kota Bharu that required the trainee to attend during the night before the actual event.

3.1.1.7.2 During the event

Through the day of the event, the trainee was responsible to guide and monitor the movement of participants, special guests and also the speakers of the talk.

3.1.1.8 Visit to SMK Pengkalan Chepa 1

On 22nd June 2015, the trainee was required to have a short visit to SMK Pengkalan Chepa 1 Resource Center in order to help them in doing some transformation of the resource center into a much better and more conducive one. However, this outreach program was intended just to give some ideas not to act upon the discussion made.

3.1.2 Attending Workshop & Training

3.1.2.1 Drupal Workshop

A workshop on Drupal which is an open-source web development platform for online content as well as user communities was attended by the trainee. Drupal powers some of the busiest sites on the web, and can be adapted to virtually any visual design. This workshop was presented by the trainee's Organization Supervisor, Mr. Amirul Firdaus Zilah 3rd February 2015 located at PPPI UMK Meeting Room.

3.1.2.2 Docuflo Web Training

The trainee has given the opportutnity by PPPI to attend a workshop of Docuflo Data Capture System which is a Document Management System that has been used by most of the government agencies in Malaysia such as Jabatan Pendaftaran Malaysia, Suruhanjaya Syarikat Malaysia, Polis Diraja Malaysia and others. This training was conducted by Mrs. Diana bt Hj. Abdullah from InfoConnect Sdn Bhd. This training takes a whole day on 10th May 2015 at Archive Unit, UMK Bachok Campus.

3.1.2.3 Knowledge Management Workshop

As PPPI is also known as the knowledge management center, a knowledge management workshop has been organized by PPPI on 18th May 2015 at UMK purposed to increase the understanding on knowledge management among PPPI staff. The intern also grabbed the opportunity to gain some knowledge on what is actually knowledge management about by attending this workshop.

3.1.2.4 English Workshop

PPPI also take such an initiative to their staff in gaining more knowledge on English as PPPI are well known in dealing with the patrons from various race and background by advocate an English workshop by Mr. Shaheed Sabreen, an English Language Fellow from United States to the staffs. The intern also counted in for joining the workshop. It was held in Online Database Center, PPPI UMK.

3.1.3 Meeting / Demonstation

3.1.3.1 CCTV Demonstration

The trainee was invited to join a CCTV demonstration by a vendor on the first day of internship. PPPI was intended to upgrade the CCTV system for the office.

3.1.3.2 SharePoint Presentation

A presentation regarding SharePoint by Brilliance Information Sdn Bhd was attended by the trainee. SharePoint is one of the secure place to store, organize, share, and access information from almost any device that might support the management of an organization especially PPPI which operates as a knowledge management center.

3.1.3.3 Meeting and Demonstration of Malaysian Standard Online Database

SIRIM has launched their own online database which gathered hundreds of Malaysian Standards. Hence, a meeting and demonstration with PPPI was done in order to introduce the online database and seeking PPPI to be one of the Malaysian Standard Online Database's subscriber. The intern was exposed with the procedure on subscribing the online databases through this meeting and demonstration.

3.1.4 Electronic Publishing/Design

All of the electronic publishing and design work was done by the intern as being requested by the UMK Press that is operated under the Publication and Intellectual Property Department of PPPI UMK. Basically, the designed work was purposed to be published into the UMK Press Online Book Store as well as to be put in the book

catalogue. Tools that have been used by the trainee in completing the design works include Adobe Photoshop and Microsoft Office Publisher.

3.1.4.1 Banner Design for Brunei Book Fair

The trainee was given a task to design a banner regarding the event called Pesta Buku Brunei which one of the event that engaged by the UMK Press team. The banner was published on UMK Press Online Bookstore website intended to aware the public on the UMK Press's activities. Figure 3.1.4.1.1 shows the design of the banner.



Figure 3.1.4.1.1
Banner design of Brunei Book Fair

3.1.4.2 Photo Editing

First of all, the intern was required to design an organizational chart for the UMK Press Unit as the Figure 3.1.4.2.1 below.

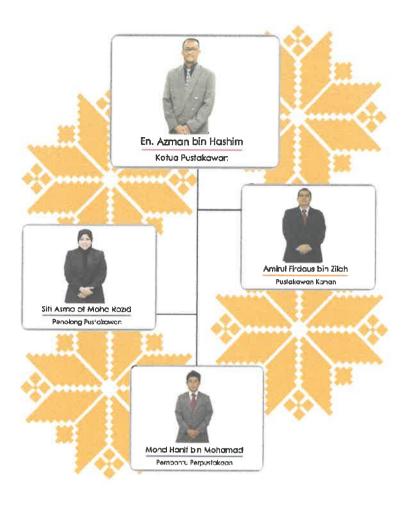


Figure 3.1.4.2.1
Organization chart of UMK Press

On the other hand, the trainee was editing the photo of the latest books published by UMK Press to be advertised and placed into the UMK Press Online Bookstore website and physical catalogue. Figure 3.1.4.2.2 shows the published edited photo of the books in UMK Press Online Bookstore.

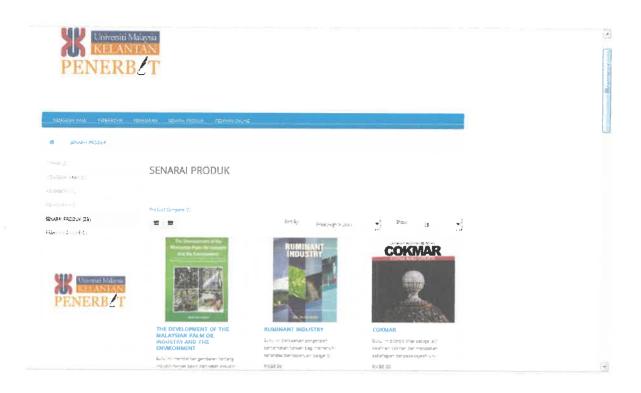


Figure 3.1.4.2.2

UMK Press Online Book store Interface

3.1.5 User Education Programs and Training

3.1.5.1 Senayan Library Management System (SLiMS)

The intern was required to conduct a training of SLiMS to the students of SMK Gaal, Pasir Puteh on 3rd March 2015. The program name was "Bengkel Pengawas Pusat Sumber Sekolah Menengah Kebangsaan Gaal". As the introduction, SLiMS is a free and open source Library Management System. It is built on free and open source technology like PHP and MySQL. SLiMS provides many features such as bibliography database, circulation, membership management and many more that will help in automate the library tasks. Appendix C shows the handbook prepared by the intern to be used as the reference tool during the training session. Nevertheless, before the training was done to the students of SMK Gaal, a training session was done to the other practical trainees of PPPI a few days before the program.

3.1.5.2 S-Lib

With the intention to help the teacher librarians of SK Batu Melintang, Jeli, in automate their resource center's operation, the trainee was ordered by PPPI to carry out a training of S-Lib System which is a system to facilitate the automated management of resource center. The trainee went to SK Batu Melintang on 8th and 9th April 2015 for the training session. This user education program was one of the slots in a program called "Kembara Ilmu ke Dunia Kepustakawanan" and the participants were among the teacher librarians of SK Batu Melintang Resource Center.



Figure 3.1.5.2
S-Lib user education and training

3.1.6 Library Tasks

3.1.6.1 Shelving and Reshelving of Books

The intern and staffs were compulsory to do shelving and reshelving of books for every morning from 8.00 a.m. till 9.00 a.m. throughout every working day. A schedule of shelves that need to be followed by the intern was prepared by the librarian as in Appendix D. Besides that, the intern has to complete the form given shown in

Appendix E as the proof of completing the task and the form then used by the librarian in order to prepare the statistic of book usage.

3.1.6.2 Radio-frequency identification (RFID) Strips Charging

This task was done by the trainee in helping the Acquisitions Management Department in processing the library materials after it has been received from the vendors. However, the trainee was not doing the overall procedure instead of just a minor process. It was a task that required the intern to charge or register the RFID strips into the system to obtain the registered tagging number for each material.

3.1.6.3 Compact Disc (CD) Labelling

The trainee was helping the Technical Management Department in terms of labelling the Audio-visual material which is CD with the call number that has been used as the identification tools of the material.

3.1.6.4 Serial Material Processing

There was several times when the trainee was helping the Serials and Digital Collections Department to process the serial materials before it has been display on the shelf. Serial materials include magazine, journal, newsletter and others. Basically, the trainee was processing the materials in the stage of labelling them with the call numbers for each material.

3.1.6.5 Minggu Perusahaan Kecil & Sederhana (PKS) Peringkat Negeri Kelantan

PKS Week was an event that has been organized by SME Corp. Malaysia which gives the entrepreneurs a platform to promoting and exhibiting their products and services among the public and the business community. It was held in the campus area of UMK City Campus on 2nd to 3rd June 2015. On those two consecutive days, the trainee was given the trust by the UMK Press team as the person who in charged for selling the books that has been published by the UMK Press at the booth provided.



Figure 3.1.6.5.1

Booth in charge during PKS Week

3.1.7 Records Management / Administration Work

3.1.7.1 Document Sorting

The intern was sorting the document of Serials and Digital Collections Department's record into the different files according to the type of the document such as *Borang Justifikasi Pembaharuan Langganan Jurnal /Majalah, Borang Permohonan Pembelian*

Jurnal, Rekod Tuntutan (Claims) Bahan Terbitan Bersiri Mengikut Pembekal and other related documents.

3.1.7.2 File Closing

When the file has arrived on its closing of file criteria, the files are required to be stated as the "Close" status. Hence, Acquisitions Management Department had given the responsibility for the intern in order to perform the Closing of file process. Appendix F shows the guideline that has been given by the Acquisitions Management Department that has been followed by the intern to complete the job.

3.1.7.3 File Disposal

From the impact of the huge floods which have hit in Disember 2014, there were a load of files had been flooded and damage. Therefore, the intern was helping the staff of PPPI in processing the damaged file in dispose stage. The disposal process includes recording the name of the damaged file and put them altogether in the boxes provided to be disposed.



Figure 3.1.7.3.1
File disposal process

3.1.8 Assignment / Assesement

Every intern who undergoes the Industrial Training in PPPI was required to sign up an Edmodo account which is an online networking application but in a safe and controlled environment appropriate for education. The Edmodo was used by the Organization Supervisor to hands out the assignment and assessment to the interns.

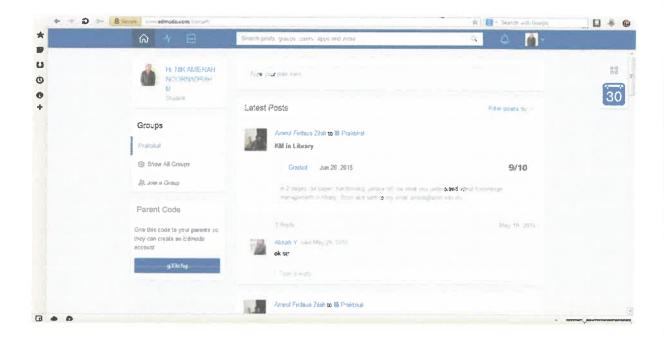


Figure 3.1.8.1 Edmodo profile

3.1.8.1 SWOT Analysis of the PPPI

The first assignment given to the intern was to do a SWOT Analysis regarding the PPPI. The analysis was gathered from the preliminary observations, interviews with staff as well as prior experience by the intern. Appendix G shows the prepared SWOT Analysis.

3.1.8.2 User Training and Education Module

The trainee was required to provide a module for a user education class. The module must be appropriate to the level of library users and the module is suitable to be taught at least for a period of an hour. Thus, the intern has chosen to prepare a module of Prezi Presentation Tools. The module then submitted in the form of a report and a slide show as shown in Appendix H.

3.1.8.3 Google Apps essay

The intern also had given the assignment to explore what Google and their apps can benefit library and librarian in term of library services by giving five example according five chosen Google Apps. The essay submitted by the intern can be seen in Appendix I.

3.1.8.4 Knowledge Management in Library essay

In order to seek for the understanding about knowledge management in the library, the Organization Supervisor had requested the intern to submit a handwritten of at least two pages essay explaining on how much the intern understand of the knowledge management concept in the library. As the result, Appendix J is the essay that has been written by the intern.

3.1.9 System Development

The intern was responsible in several system development tasks, including developing and maintaining the Online Bibliography of Entrepreneurship website, design and data insertion of UMK Press Online Book Store System and Autonomy Audit Repository System, development of Digital Kelantan Collection, and last but not least system development of UMK Library HelpDesk Support Ticket System.

3.1.9.1 Online Bibliography of Entrepreneurship Website

As the assessment after attending the Drupal Workshop with the Organization Supervisor, the trainee was required to develop a website which is Online Bibliography of Entrepreneurship by using the Drupal platform. Due to the UMK's identity as

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Entrepreneurship University, bibliography of entrepreneurship is needed in order to support the students and staff in seeking for the education aid. Drupal is an open source and free software package that allows developer to easily organize, manage and publish the content, with an endless variety of customization. The trainee took about three days to explore Drupal's component and came out with the new website includes with the required data that need to be inserted into the website which is the list of bibliography of entrepreneurship's resources.

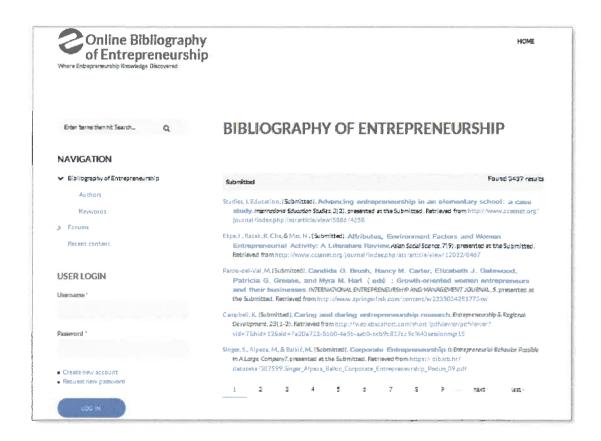


Figure 3.1.9.1.1
Online Bibliography of Entrepreneurship Website's homepage

3.1.9.2 UMK Press Online Book Store System

UMK Press Online Book Store System is a system that support UMK Press Unit in exhibits the published books as well as provide the alternatives to the public in placing the order through online purchasing. This system is a new developed system by the

UMK Press Unit in order to switch the old system used before to another platform of system. Hence, OpenCart is chose in order to develop UMK Press Online Book Store System. OpenCart is well known as the free open source ecommerce platform for online merchants.



Figure 3.1.9.2.1
UMK Press Online Book Store System's homepage

Therefore, the intern was responsible in editing and adding the data inside the system such as data of "About Us", list of products and others. Instead of that, the intern also required to some minor design task for the system such as create banner, choose the suitable font and so on.

3.1.9.3 Autonomy Audit Repository System

Autonomy Audit Repository System is a system which contains the information and related document of Autonomy Audit as UMK is nowadays are in their mission in gaining the status as one of the Autonomy University in Malaysia. As the Knowledge Management Center of UMK, PPPI was the one who responsible in providing the

resources to help UMK in achieving the autonomy status. Hence, this system was developed by PPPI in serving their client's needs.

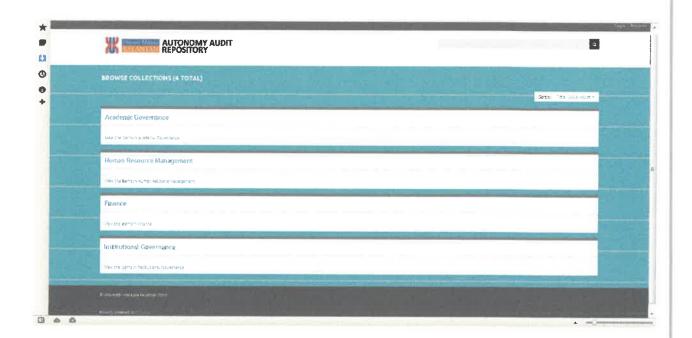


Figure 3.1.9.3.1
Autonomy Audit Repository System's interface

This system was developed by using a free, open source content management system for online digital collections. As a web application, it allows developer to publish and exhibit cultural heritage objects, and extend its functionality with themes and plugins. Omeka is well known as a flexible web publishing platform for the display of library, museum and scholarly collections, archives and exhibitions that is called Omeka. Same task as done for UMK Press Online Book Store System, the trainee had given the responsibility to conduct the design and data insertion of Autonomy Audit Repository System.

3.1.9.4 Digital Kelantan Collection

The trainee was given the task to take part in the system development of Digital Kelantan Collection. This system functions to features digitized versions of sources about Kelantan from the past to the present. It is the project assigned under the Special Collection and Entrepreneurship Management Department of PPPI. By using Dublin Core and Omeka, the resources are organized to make it available to the user.

The trainee has been involved in some part of the development from planning till maintenance process of developing the system. During the planning process, the trainee was preparing the initial Gantt chart to schedule the project time. Appendix K shows the Gantt chart prepared by the trainee. However, the Gantt chart was just the initial schedule before it has been amended by other development team. In analysis stage, the trainee had attended a several meetings with the development team to come out with the analysis of the system. For the design stage, the trainee had involved in designing the interface of the system. While during implementation stage, the trainee was responsible to install all of the plugins required to extend its functionality by using Filezilla which is a FTP client that widely used by webmasters in managing web site files through it. Apart from that, the trainee also gives a part of contribution in preparing the user manual for Digital Kelantan Collection. As PPPI got a very serious server problem due to flood that hit before, maintenance stage of the system had takes the most time of the development schedule. The IP address of the system was keep changing for several times that required the trainee to keep doing the backups of the system and export the data into the new installed IP Address.

3.1.9.5 UMK Library HelpDesk Support Ticket System

UMK Library HelpDesk Support Ticket System is assigned to be involved in the development project by the trainee as the main task or special project. This system is developed in fact of opening a channel for the library users in creating a "ticket" or report to the library management if there were any problem happens instead of do it at

the circulation counter. The detail information regarding this project is explained in the next section (3.2 Special project).

3.2 Special project

3.2.1 UMK Library HelpDesk Support Ticket System

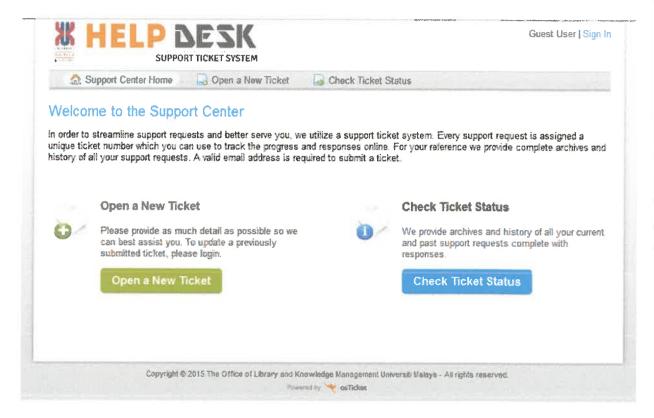


Figure 3.2.1.1

UMK Library HelpDesk Support Ticket System's homepage

3.2.1.1 Problem statement

The main problem that leads to the development of UMK Library HelpDesk Support Ticket System was the manual workflow of complaint done by the library users. This makes it difficult in processing the complaint whether result in late respond or others.

The specific problems include:

i. Time consuming

The manual procedure is too slow and will delay the action taken towards the problems.

ii. Handling by wrong person

The report is given to the unrelated person with the complaint's subject and lead to wrong answer. The problem will never be solved.

iii. No priority setting for each complaint

All of the complaints are not been sort out with the level of priority in responding. Even if the priority is high however it is still need to wait for the turn of the complaint was submitted to be responded.

3.2.1.2 Project Objective

- i. To come out with the integrity, sharing, availability and faster retrieval of data
- ii. To serve responsible person with a single centralized storage of data
- iii. To systematized collection of data that could be accessed immediately and manipulated by a data processing system for a specific purpose

3.2.1.3 Planning

3.2.1.3.1 Schedule, Timeline and Resource Analysis

This project was estimated to be completed within five months from February till June 2015. Therefore, the trainee has been participated from the planning until the maintenance phase of this system development. However, in design phase, the trainee was not participate in preparing the design for the system as the Organization

Supervisor has requested the trainee to install the open source platform without need to design a coding. Appendix L shows the Gantt chart prepared for this system with detail schedule, timeline and resource analysis.

3.2.1.4 Technology Used Related to the Project

3.2.1.4.1 Software

Table 3.2.1.4.1.1
Software used related to the project

Software	Description
Windows 7 Professional Windows 7	Windows 7 is an operating system released by Microsoft. It is typically installed on business computers and includes all the Home Premium features as well as additional features such as Windows XP mode (XPM) and Domain Join. Windows 7 Professional has everything that is needed for work and home. The feature, designed primarily with small- and medium-sized businesses in mind, comes as a separate download and works only with Windows 7 Professional. It helps in simplify everyday tasks such as find something instantly, compare documents side-by-side, or easily back-up your complete system over a network. Windows 7 Professional also provide user with features that allow user to
	enjoy a PC that works the way you want it to. Other than that, it can supports 64-bit technologies and offers XP Mode at the same time for your business productivity applications make new things possible. The developer is not using the latest version of Windows operating system which is windows 8 because not all software is compatible with this version and may be difficult in the system development process.

Google Chrome



Google Chrome is unquestionably the best overall internet browser on the market. Chrome's features provide you with rich convenience features, a clean layout for intuitive navigation and security functions that enable safe browsing. Furthermore, the internet browser's top speeds and standards-compliance render Chrome's performance unrivaled and substantiates its rapidly growing user base. Google Chrome is available for Windows, Mac, and Linux.

Microsoft® Office Professional 2013



Microsoft Office Professional includes everything its user would want in an office software suite. It has comes with all of the usual component applications, most of which sport enticing new features compared with the previous version. In developing this system, there is only a number of Microsoft Office Professional components that the trainee use includes:

Microsoft Office Word 2013

From basic features like spelling and grammar checking to advanced editing features like track changes, Microsoft Office's Word has all the tools you will need for creating, editing and working with a text document.

Microsoft Visio 2013

With easier creation of diagrams, improved simultaneous collaboration and touch support, Visio 2013 enables the linking of diagram shapes to real-time data, unleashing the power of the application as another statistical tool and supports the latest diagramming standards.

osTicket



osTicket is a widely-used and trusted open source support ticket system. It seamlessly routes inquiries created via email, webforms and phone calls into a simple, easy-to-use, multi-user, web-based customer support platform. osTicket comes packed with more features and tools than most of the expensive (and complex) support ticket systems on the market. The best part is, it's completely free.

3.2.1.4.2 Hardware

Table 3.2.1.4.2.1
Hardware used related to the project

Hardware	Specification
	Processor:
Acer Aspire 4741G	CPU: Intel Core i5 350M / 2.26 GHz
_	Number of Cores: Dual-Core
	Cache: L3 - 3 MB
	64-bit Computing
	Chipset Type: Mobile Intel HM55 Express
	Memory:
	RAM: 3 GB (1 x 1 GB + 1 x 2 GB)
	Max Supported Size: 8 GB
	Technology: DDR3 SDRAM
	Speed: 1066 MHz
	Form Factor: SO DIMM 204-pin
	Slots Qty: 2

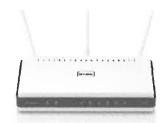
Empty Slots: 0

Ram:

Memory Speed: 1066 MHz

Configuration Features: 1 x 1 GB + 1 x 2 GB

D-Link Wireless N300 Mbps Extreme-N Gigabit Router (DIR-655)



The D-Link Extreme-N Gigabit Router (DIR-655) is a draft 2.0 802.11n compliant device that delivers up to 14x faster speeds and 6x farther range than 802.11g while staying backward compatible with 802.11g devices. Connect the Extreme-N Gigabit Router to a cable or DSL modem and provide high-speed Internet access to multiple computers, game consoles, and media players. Create a secure wireless network to share photos, files, music, videos, printers, and network storage.

Dell PowerEdge R410 Server



• Energy-Efficiency

The Dell PowerEdge R410 is an energy-efficient server that is easy to deploy in any environment without sacrificing expandability, power, and performance. Dell R410 servers feature support for up to two 4 or 6-core Intel 5500 or 5600 Xeon series processors for exceptional speed and performance.

High Modularity

Depending on the type of disk drives, the Dell PE R410 can accommodate up to 8TB of maximum internal storage capacity. And because Dell services are modular, you can choose the number and level of services that you need to meet your changing needs without being locked into long-term agreements.

3.2.2 Analysis

3.2.2.1 System Requirement

3.2.2.1.1 Requirements collected from conversation / observation

Interview is one of the traditional methods that are popularly used in developing a new system. An interview session was done by the trainee using face to face method with the client. As the system development is not required the trainee to design based on coding which using the open source platform, there is no need for the trainee to prepare the structuring systems requirement either process or logic modelling. From this interview

session, there are several system requirement gathered based on the conversation between the trainee and the client include:

3.2.2.1.1.1 Official email address to be used

From the interview session, the trainee had acquired the official email address that will make the link with all of the interaction happened within the system between the user and agents. The reason why the system need to be setting an official email address is because when the user are submitting the ticket, a notification of the incoming ticket will be sent to the email address which has been determined. Therefore, the administrator will be aware that there is ticket that awaiting for their respond.

3.2.2.1.1.2 Administrator assignment

The trainee also had given the requirement from the client in setting up the person who will conduct the job as administrator of the system. There were a number of agents that have been pointed out to take the responsibility of the administrator or the person who could change the setting of the system.

3.2.2.1.1.3 Banner Design

In order to make sure the system is having its own identity, the trainee was asked to design and upload the banner to be published in the system. Based on the client's need, the banner as figure 3.2.2.1.1.3.1 below was uploaded as the banner of the system.



Figure 3.2.2.1.1.3.1 Banner of UMK Library Support Ticket System

3.2.1.1.1.4 Email template

The trainee also had analysed the email template for the outgoing email that will be sent out to the user. It is compulsory for each outgoing email to have the signature of the mailer in make sure the sender was authorized person who responsible to the system's feedback.

3.2.2.1.2 Requirements collected from written information

3.2.2.1.2.1 Agent's information

The trainee had gathered the agent's information from the list of the staffs or directory that was displayed on the UMK Library portal. However, there were some information that not complete and insufficient which required the trainee to seek for the information from the printed directory that has been used by the staffs.

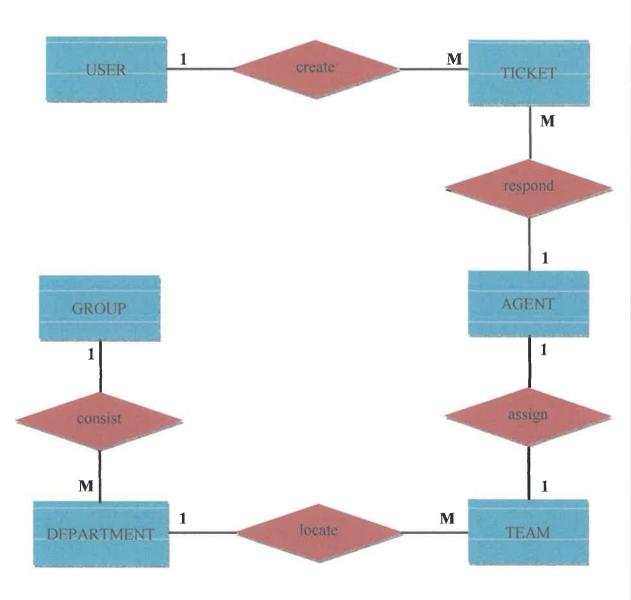
3.2.3 Design

When installing the open source platform such as osTicket, automatically the design phase in developing this system is skipped. However, the trainee as the database administrator throughout this system development process was taking an initiative to make a sketch of database design in order to give a clearer vision of the system.

3.2.3.1 Database Design

3.2.3.1.1 Relational Database Model

Diagram 3,2,3,1,1,1
Relational Database Model design



3.2.3.1.2 Entity Relationship Diagram (ERD)

ERD for UMK Library HelpDesk Support System contains six tables and shown in the diagram below.

TICKET NUMBER USER WANTE create LISTAL NAME DEHALTMENT NAME USER PRONE TICKET PATE manage THORET BURNEUT GROOP NAME DEPARTMENT_DAME respond AGERT_HAME GROUP_STATUS AGENT_USERNAME consist collaborate DEPARTMENT_NAME SECULE NAME involves employs WGENT_DSERMANE DEPARTMENT_TYPE AGENT_LNAME DEPARTMENT, MANAGER AGENT PHONE DEPARTMENT EMAIL WIGENT MIGRIS HEERT EMAL TEAM NAME locate assign DEPARTMENT_NAME TEAM, LEAD

Diagram 3.2.3.1.2.1
Entity Relationship Diagram (ERD)

3.2.4 Implementation

3.2.4.1 Installation

The installation process was done before the data could be inserted into the database. It is because the system is using the osTicket platform that required it to have link with the server before it could be operate.

3.2.4.2 Data insertion and system setup

As a database administrator, this phase has become the main part of the system development phase for the trainee among others. Based on the entire analysed system requirement from the client, the data then gathered by the trainee and data insertion and system setup is done throughout this phase.

3.2.4.3 Testing

Testing phase is the most important phase during the system development project to make sure the system could operate well without any error occurred. Hence, a pilot test was done by the trainee to make sure all of the process is functioning well. The pilot test includes creating the dummy ticket and replying it back to ensure there will be no malfunction of the system happened.

3.2.4.4 User manual documentation

Before the user training for the system is done, the trainee had prepared the user manual documentation to be used as the learning aid during the presentation. Besides that, the

user manual could be used as the reference for the future use as the trainee had left the system to be maintained by the PPPI staff due to end of Industrial Training period. The user manual can be referred at the Appendix M.

3.2.4.5 System Presentation

A system presentation to the client also had been done within this phase. From this presentation, some amendment had been done regarding the data inserted to the system. Besides that, there was also some addition of administrator requested by the client during the system presentation.

3.2.5 Maintanence & Controlling

3.2.5.1 Error identification & fixing

After the pilot test was ran, the error could be detected include the malfunction of incoming and outgoing email when there was transaction happened. The trainee tried to troubleshoot the problem by checking on the email setting.

3.2.5.2 Backups

Due to the server problems that have been occurred several times during the development process which result in system crashed and changing of the system's IP address, the trainee had to make the backup work of the data frequently. Every time the IP address was changing, the trainee needs to export the data from the previous server to the new one.

Chapter 4: Conclusions

4.1 Application of knowledge, skills and experience

From the system development tasks given to the trainee, it was apparently made the trainee applying back the knowledge of System Analysis and Design I and II that has been learnt during the previous semester's subjects. Apart from that, the trainee had also benefited the skills in conducting user training that was gathered from the experience during the studies. On the other hand, the experience of the trainee when engaged in several project management during both diploma and degree studies was helped the trainee a lot when involved with project management throughout the industrial training period. In conjunction, the trainee was required to complete a few of design and editing task by the organization which indirectly has required the trainee to implement back the electronic publishing knowledge that had been learnt during the diploma studies such as using the adobe software and others.

As the trainee was taking the library and records management electives during the studies, it is very suitable for the trainee to undergo the industrial training at the PPPI. That was because the trainee sometimes had given the tasks in the library or records management scope. For instance, library tasks that the trainee was done such as shelving, material processing as well as public relation was learnt before by the trainee. On the other hand, the trainee also had completed some records management task such as closing and disposition of file. All of the tasks was learnt by the trainee during the diploma however never had chance to be implemented. When given the opportunity to complete the tasks, it has become the bonus to the trainee when the theory learnt was able to be applied in the real industry.

4.2 Personal thoughts and opinion

The intern is feeling very honoured for having the opportunity to working with such a supportive team of PPPI from the staff to the top management of the organization. When working with a great and professional group of people, the intern will not have any doubt to do the work with a sincere heart. The staffs especially the supervisor is very generous in providing a new knowledge to the intern without any hesitation.

From the observation and experience of working during the industrial training period, the intern feels that the management workflow of the PPPI is quite well organized. Everything is done based on the procedure documented. Nevertheless, the staffs in PPPI are fully applying the email medium as the communication tools unlike the other organizations that are having the email address but never open the mailbox for once.

Apart from that, the intern realized that the technology equipments used by PPPI were always up to date or latest one. For instance, PPPI is serving their user with the usage of iMac desktop and iPad tablet for the equipment and facilities. However, it is not been fully utilised by the user and staffs due to not having the skills and knowledge to operate the equipments. Thus, it is suggested for PPPI to prepare a user education class that teach user and staff on how to operate the equipments with the right way.

The intern also feels grateful to experience the outstation working environment rather than just inside the office compartment. It helps the intern to explore and understand the working lifestyle much better.

Last but not least, the intern thinks that by choosing and being accepted to complete the user training at PPPI is such a great ideas as the intern could applied the knowledge that was learnt during diploma as well as from the elective taken of the studies in the Faculty of Information Management, Universiti Teknologi Mara (UiTM). It is s suggested that

the future students who will undergo practical training should consider choosing the organization which related to their minor or elective as well such as library, records center, data center and others.

4.3 Lesson learnt

Obviously, when talking about working in the office, every person is needed to learn on how to operate the office tolls. The trainee was trained by the staff to operate the tools such as photocopy machine, fax machine, scanner and others. But the most interesting part is the trainee was given the opportunity to learn how PPPI is managing their document by using Document Management System called Docuflo from initial process which is scanning until exporting them to the server.

Through the requirement in organizing the events, the trainee got to know the actual procedure when it comes to proposing the event in the real working life with the fact that had to deal with the top level management people. It is required such a big effort in order to make sure the event is organized smoothly from getting the approval till the day it is run. Nonetheless, the trainee had learnt on how to dealing with different attitude of people. Sometimes, when organizing a big event, the trainee had learnt how to handle the situation when required to working with a large number of people in a group.

On the other hand, during the industrial training period, the intern had to communicate with different level and ages of people. As the result, the trainee has posses the improvement in communication skill. Different types of people required different types of communication approaches.

The trainee also has gathered the knowledge on how to develop a system without have to working out using coding. There is another alternative way in developing a system just by installing the open source platform.

PPPI also had given the trainee knowledge in becoming an entrepreneur through the entrepreneurial activities that had been implied by the organization such as opening booth in carnivals, own retail shop and others that could gaining the profit for them.

4.4 Limitations and Recommendations

Due to restricted workspace of the PPPI office, the intern feels like it is not so comfortable to working in the small area of work station with a large number of staff. The intern also did not given the fixed work station and has to search for unoccupied place before starting the work. The trainee would like to suggest in preparing the special area of the office as the intern's work station in the future.

Moreover, the trainee was not prepared with the equipment such as computer to carry out the job given and need to bring own belongings from home. If possible, PPPI should provide the intern with the appropriate equipment to ease the intern's work.

The facilities for the staff are lack in convenience. It is suggested that the facilities such as prayer room should be separated between men's and women's. Because of that, the trainee feels quite uncomfortable when it comes to praying time.

The intern thinks that PPPI had assigned the interns of their organization with too much organizing events activities. Because of that, it makes the time of the intern to conduct the main tasks become shorter. If possible, Organization Supervisor should make some revision on the work scheduling for the future intern activities.

From the interview with the staff of PPPI regarding to the flood hit that was result in such a big damaged of the office's assets, the organization does not possessed any Disaster Recovery Plan or other related document in preparing for the unexpected disaster that might happen. Hence, the trainee would like to suggest PPPI to prepare those related documents for the future use.

The intern also feels that in maintaining the ICT equipments and system application, there is not enough to only being managed by two employees from System and New Media Department which need to be responsible for the whole branches of the PPPI office. In the other words, there is a shortage number of staff who able to conduct those related works occurred within PPPI. If possible, PPPI should recruit much more position that specified and possessed such a good skills on the ICT equipments and system application's management.

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APPENDICES

Appendix A:

Design of Library Open Day Bookmark



PEJABAT PERPUSTAKAN DAN PENGURUSAN ILMU UMK, KAMPUS KOTA

Every book its reader.
Save the time of the reader.
The library is a growing organism." "Books are for use.
Books are for all;
Every reader his or her book. -S. R. Ranganathan



Perpustakaan UMK

http://perpustakaan.umk.edu.my/



+609-7717185



Appendix B:

Design of Library Open Day Signage

UNIVERSITI MALAYSIA KELANTAN

Let's Explore!

17, 18, 19 MAC 2015 | 10.00 PAGI - 4.00 PETANG PEJABAT PERPUSTAKAAN DAN PENGURUSAN ILMU

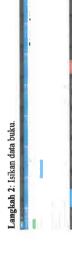
Appendix C:

Senayan Library Management System (SLiMS) handbook





SENAYAN LIBRARY MANAGEMENT SYSTEM (SLiMS)



Metadata yang harus diisi berserta penerangan:

- 1. Title: Judul koleksi
- 2. Author (s): Nama pengarang
- Statement of Responsibility: Judul koleksi berserta nama pengarang. Contoh; Buku Rujukan Sains/ Azlina Visoff
- 4. Edition: Pernyataan edisi
- 5. Item(s) code batch generator: nombor akses



Bibliography



7

- 6. GMD: General Material Designation
- 7. Frequency: Kekerapan pengeluaran (untuk bahan ber-
- 8. ISBN/ISSN: Nombor ISBN atau ISSN
- 9. Publisher: Nama Penerbit
- 10. Publishing Year: Tahun terbit bahan
 - 11. Publishing Place: Tempat Terbit
- 12. Collation: Kolasi/Deskripsi fizikal bahan
 - Contamon, Audas Deskripst Italia
 Series Title: Judul siri (jika ada)
- Classification: Nombor klasifikasi koleksi (DDC, UDC atau lainnya). Classification ini akan sangat berguna dalam proses Stock Take
- 15. Call Number: Nombor panggilan koleksi
- Subject(s): Topic/subjek. Data ini juga dapat diambil dari Master File
- 17. Language: Pilihan bahasa bahan
- 18. Abstract/Notes: Catatan penting berkaitan dengan hibliografi

- Image: Gambar (biasanya muka depan) yang menunjukkan identiti koleksi. Gambar ini akan muncul di OPAC File
- File Attachment: Dapat diisi dengan fail yang berkaitan dengan koleksi
- Hide in OPAC: Pilihan untuk tidak disenaraikan di dalam OPAC
 - 22. Promote To Homepage: Pamerkan di muka hadapan
- Label: tambah label baru yang menghubungkan bahan dengan laman web.

Setelah data siap diisi, klik Save.



٠

- Pending Membership: Jika Pending Membership ini di tanda, maka ahli yang berkaitan tidak akan dapat melakukan sirkulasi, meskipun masih aktif.
- 16. Photo: Gambar ahli
- 17. E-mail: Alamat email
- 18. New Password; Kata kunci

Setelah data siap diisi, klik Save.



Masukkan data Ahli. Klik Menu Add New Member.

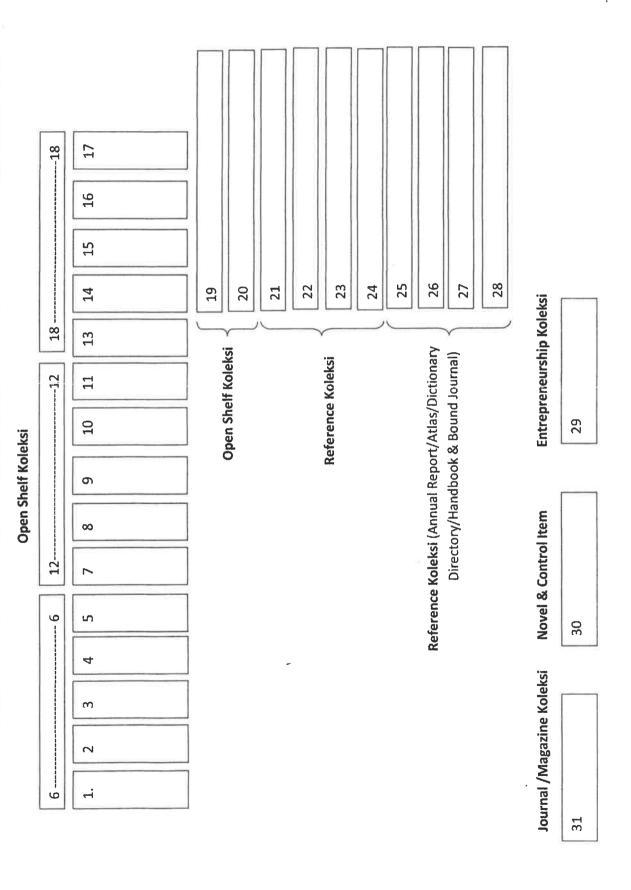


- 1. Member ID: ID Ahli
- 2. Member Name: Nama Lengkap Ahli
 - 3. Register Date: Tarikh mendatar
- 4. Expiry Date: Tarikh luput keahlian. Expiry date terdapat Auto Set. Jika auto set di tanda maka expired date ahli akan dikira berdasar Membership Type. Namun jika tidak ditanda, maka Expiry date dapat ditentukan secara manual, dengan memilih tarikh luput
 - Institution: Nama institusi/nama organisasi
 - 6. Membership Type: Jenis keahlian
- 7. Gender: Jantina
- 8. Address: Alamat tetap
 - 9. Postal Code: Poskod
- 10. Mail Address: Alamat surat menyurat
- Phone Number: nombor telefon
 Fax Number: Nombbor Fax
- 13. Personal ID Number: Nombor ID Peribadi seperti no. IC
 - 14. Notes: Catatan singkat

9

Appendix D:

Shelving schedule



<u>SENARAI NAMA PEM.PERPUSTAKAAN DALAM PEMBAHAGIAN RAK BAGI TUJUAN SHELVING/RESHELVING BUKU SETIAP HARI</u>

SHIFT PAGI (8.00AM - 9.00AM) & SHIFT PETANG (2.00 PM - 3.00 PM)

- Hakiki & Nik Nuramilin (Practical Student Uitm)	- Hassyati & Mohd Azri (Practical Student Uitm)	- Cheq Su & Fatin Nabilah (Practical Student Uitm)	- Hakim & Nik Nur Raihan (Practical Student Uitm)	- Zulaikha & Mohd Zahrul (Practical Student Hitm)
▶ Rak 1/2	▶ Rak 3/4	Rak 5/6	Rak 7/8	▶ Rak 9/10
A	A	A	A	A

- Ira & Farah Nurul Ain (Practical Student Uitm) Rak 11/12

- Hanis & Wan Nor Aisyah (Practical Student Uitm) Muis & Fakruzee Rak 13/14 Rak 15/16

Norhayati & Norfadilatun (Practical Student Unisel) Rak 17/18

A

Farah & Nik Amierah (Practical student Uitm) Rak 19/20 A A

Rak 21/22/23/24 - Hafiza & Nik Amierah (Practical Student Uitm)

- Afiffah & Naziella (Practical Student Uitm) Rak 25/26/27/28 - Hafiza & Naziella (Practical Student Uitm) Rak 29/30 A

Rak 31

Mahadi – Membuat pemeriksaan/Memastikan semua komputer berfungsi dgn sempurna pada setiap pagi sebelum perpustakaan dibuka jam

MAKLUMAN

1- Semua staf diwajib berada di rak masing-masing bagi tujuan shelving dari pukul 8.00 am – 9.00 am (Shif Pagi)

2-Semua staf diwajib berada di rak masing-masing bagi tujuan shelving dari pukul 2.00 pm – 3.00 pm (Shif Petang)

2- Semua staf bertugas perlu memastikan susunan buku di rak mengikut sususan yang betul (mengikut standard LCC)

3- Semua staf bertugas perlu memastikan susunan buku di rak berada dalam keadaan kemas & teratur.

4- Semua staf bertugas perlu memastikan buku-buku dirak di "Vacum" bagi mengelak debu/habuk.

5- Pustakawan (S41)/Pen. Pegawai Perpustakaan (S27) akan membuat pemantauan/pemeriksaa rak secara rutin harian. 6- Semua staf yang bertugas dilarang berkumpul/berborak semasa membuat shelving/reshelving. Appendix E:

Shelving form

PEJABAT PERPUSTAKAAN DAN PENGURUSAN ILMU UNIVERSITI MALAYSIA KELANTAN



REKOD HARIAN STAF PEM.PERPUSTAKAAN BERTUGAS BAGI SHELVING/ RESHELVING BUKU DI RAK DAILY RECORD OF ASSISTANT LIBRARY STAFF FOR SHELVING RESHELVING BOOK

NAMA STAF:

NO. RAK PEMANTAUAN:

BIL.	TARIKH	NO. PANGGILAN MENGIKUT BAY	CATATAN
	2/3/15	13 (55 ptg 2009 - TS 155 SS62 2010	Reshelving
	3/3/15	PEllow HAY 2002 REF - PLE 1128.094 2008 REF	Reshelving (2)
	51/8/4	HG 159. K45 2008 REF - HB 172.5. M 375 2012 PZF	Aeshelving (3)
		170106. HT4 1002 REF - 17E1128. 094 2008 REF	Reshedving (2)
		PN 4874 - Lft 2010 REF - PR 2848 . C 66 2007 REF	Reshalving
	51/8/2	DS 593.32. R67 1997 REF	keshelving
		N STFO PLIS 2004 REF	Reshewing.
	31/3/115	FORTHS - MY 2014 TX 9111.3 - ML7 5565 2011	Reshelving
		18535162 GBS 2014 REP	Reshelving (3 Thes)
		LB 2830.3 Mt CGEG 2009 RE P	Reshalving (2 bound)
			,

Karung Berkunci 36, Pengkalan Chepa, 16100 Kota Bharu Kelantan http://perpustakaan.umk.edu.my Tel: +609 771 7185 Appendix F:

File closing guideline

Contoh Kertas Minit

(Am. 6)						
Kertas	Minit No.	ANM600)-23/2		Helaian N 1	
	Surat bth.	7/11/09	d/h kpd. Jab	. Inovasi pd.	10/11/09.	
2	Surat bth	. 15/11/09	dpd. Jab. A	lam Mesra d <i>i</i>	k pd.18/11/09	
			11110-111			

	PNMB., K.L (Kertas Minit ini dalam ukuran Metrik ISO A4 = 210mm x 297 mm)					

4. Kaedah Penutupan Fail

Fail yang telah dibuka dan digunakan perlu ditutup apabila ia memenuhi kriteria berikut:

4.1. Apabila fail sudah tebal mencapai ketebalan 4sm atau kandungannya sudah mencecah 100 lampiran, tindakan baru hendaklah dilakukan di dalam kulit fail baru;

- 4.2. Apabila fail tidak dapat dikesan atau hilang ditemui kembali;
- 4.3. Apabila dokumen dalam fail telah tamat dan tiada tindakan lanjut yang perlu diambil ke atas dokumen tersebut;
- 4.4. Apabila fail yang tidak lagi dikehendaki untuk pentadbiran harian atau tidak dirujuk dalam masa 5 tahun;
- 4.5. Apabila ada perubahan pentadbiran atau sesuatu pejabat awam adalah tidak berfungsi dan tidak ada lagi pengganti bagi tugas dan fungsi pejabat awam itu;
- 4.6. Apabila skima klasifikasi fail dirombak semula;

Penutupan fail perlu dibuat dengan cara-cara berikut berasaskan kriteria penutupan fail seperti berikut:

Contoh penutupan fail bagi 4.1 & 4.2

	(,	Am 435-Pin. 1/80
AN	Kertas-kertas Yang Berhubung	ANM600-23/2
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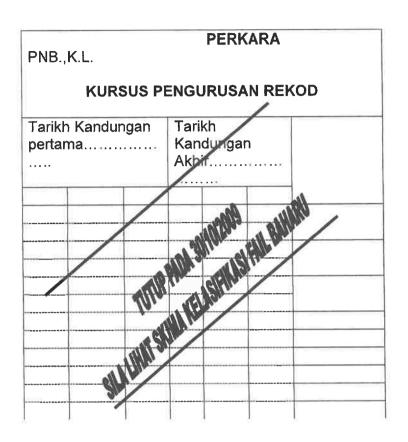
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		an Tari Kan	an Tarikh Kandunga Akhir	Kandungan

Contoh penutupan fail bagi 4.3,4.4 & 4.5

	(,	Am 435-Pin. 1/80
	Kertas-kertas Yang Berhubung	ANM600-23/2
		Didaftarkan di bawah perkara

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ANM600-23/2		*******
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5. Kegunaan Sampul Kecil

5.1. Fail Tidak Dapat Dikesan

- 5.1.1. Apabila surat yang diterima memerlukan tindakan segera tetapi fail tidak dapat dikesan, sampul kecil hendaklah dibuka sebagai fail sementara menggantikan fail yang tidak dapat dikesan (fail asal).
- 5.1.2. Catatkan tajuk dan no. rujukan fail yang sama seperti fail asal.
- 5.1.3. Sekiranya fail asal masih tidak dapat dikesan di dalam tempoh 3 bulan atau lampirannya telah tebal (melebihi 1.25sm) atau mana yang terdahulu, satu kulit fail baru hendaklah dibuka dan sampul kecil dimasukkan ke dalam fail baru ini sebagai lampiran.

5.1.4. Sekiranya selepas fail baru dibuka dan fail yang tidak dapat dikesan tadi dijumpa semula, fail asal hendaklah ditutup. Fail baru yang dibuka diberi no. Jilid 2 atau seterusnya.

I

5.2. Dua orang pegawai menggunakan fail pada masa yang sama.

- 5.2.1. Apabila sesuatu surat perlu diambil tindakan segera oleh lebih daripada seorang pegawai pada masa yang sama, sampul kecil boleh dibuka untuk kegunaan pegawai.
- 5.2.2. Lampiran yang diperlukan oleh pegawai sahaja yang dibuat salinan dan dimasukkan ke dalam sampul kecil untuk tindakan pegawai berkenaan.
- 5.2.2. Selepas tindakan selesai, sampul kecil dimasukkan ke dalam fail sebagai lampiran.

6. Kulit Fail Rosak

Kulit fail yang rosak boleh diganti dengan kulit fail baru. Sekiranya terdapat catitan penting di atas kulit fail yang rosak, kulit hadapan fail berkenaan hendaklah digunting dan dimasukkan ke dalam kulit fail yang baharu dibuka. Sekiranya tidak ada apa-apa catitan penting kulit fail yang rosak itu boleh dimusnahkan.

7. Kesimpulan

Panduan ini diharap dapat memberikan penerangan mengenai kaedah dan amalan pembukaan fail di Jabatan dan Agensi Kerajaan secara jelas dan mudah. Panduan ini hendaklah digunakan oleh pegawai dan kakitangan terutamanya yang bertanggung jawab dalam mengurus dan mengendalikan fail rasmi di jabatan dan agensi masing-masing.

Appendix G:
SWOT Analysis of PPPI

SWOT ANALYSIS ON THE OFFICE OF LIBRARY AND KNOWLEDGE MANAGEMENT, UNIVERSITI MALAYSIA KELANTAN

Ву

NIK AMIERAH NOORNADRAH BINTI MA'ROOF
2012768997

Strengths Weaknesses Occupied with the latest technologies. • The departments are scattered. Knowledgeable friendly staff with variety of • Lack of space for users and staff. excellent skills and abilities. • There is no proper working area or room Convenience circulation process by where the books are prepared before providing self check machine and book served to the user. drop. No safe forum for complaints and • Staffs are easy to be reached through email suggestions. notification or phone notification. • There were no special services which serve • All staff has access to a workstation and ehandicapped users. mail is used widely for communication. • Well developed and useful library website. Good teamwork by staff. • The collection is small but is very selective and efficient in meeting the expectations of users and the mandate of the library. • Relationship with campus departments, including collaborative collection development.

Threats
Budget restraints.
Staff becoming discouraged.
Users who misuse available technology and
facilities.
Damage to equipment by users.

Appendix H:

User training and education module assignment report



PREZI DESKTOP

Ву:

Nik Amierah Noornadrah binti Ma'roof

Universiti Teknologi Mara, Kelantan



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1. Introduction

Prezi is a presentation tool that uses motion and metaphor to express critical ideas through a visualization of information. It is makes use of one large canvas that allows you to pan and zoom to various parts of the canvas and emphasize the ideas presented there. Prezi is a webbased, cloud presentation platform. It typically saves your files "in the cloud" and can provide 24/7 anywhere access for you and your collaborators. But the great thing about it is that it is possible to have all the prezi functionality at your fingertips even without being online; Prezi Desktop. With Prezi Desktop you can create, edit or show your presentations without an internet connection. You can open .pez files that you downloaded from http://prezi.com or saved by the Prezi Desktop itself. Store and share .pez files easily as you would do with any other regular file. It is also possible to upload your prezi into the online editor with just a single click.

2. Download and install

2.1. Requirements

2.1.1. Operating System

Prezi Desktop will run on any Adobe Air capable system. We support the following ones:

- Microsoft Windows XP or later
- Mac OSX 10.5 or later

2.1.2. Adobe Air

Prezi Desktop needs Adobe Air environment which it will install automatically if you do not have it yet. In this case administrator privileges will be required.

2.1.3. Prezi.com user account

You will need a prezi.com account in order to use the Prezi Desktop. You can create one at http://prezi.com/profile/signup/

2.2. Download and Install

- Go to https://prezi.com/desktop/
- ii. Choose operating systems of the computer or devices that you want to install the Prezi Dekstop at the menu bar on the top-right-hand of the page.





Figure 1: Prezi dekstop download menu

iii. Click on Download button to download the installer first.

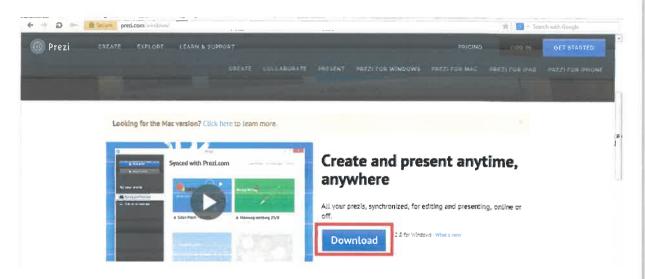


Figure 2: Download page

iv. Click **Run** when there is a dialogue box appears to automatically install the Prezi Desktop right after it is downloaded. However, you still can save the installer by clicking on **Save** button and double click on the software to install.



Figure 3: Download option





v. A dialogue box will appear as below.



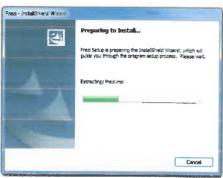


Figure 4: Prepare to install

vi. After a few minutes, another dialogue box appears. Click "Next>" to continue installing.



Figure 5: Installshield wizard

vii. Tick the "I accept the terms in the license agreement" radio button and click on the "Install" button.







Figure 6: License agreement

viii. Wait for a few minutes until the installation done.



Figure 7: Installing

ix. When the installation is successfull click "Finish" to close the installation window. Prezi is ready to be use.



Figure 8: Installed succesfully





3. Sign Up

i. Open the Prezi Desktop application and click on the "Sign up now" link at the bottom of the interface.



Figure 9: Sign up link

- ii. You will be linked directly to the https://prezi.com/pricing/ at your default browser.
- iii. Choose what license that you want. To enjoy free license, choose the Public license. This account allows you to create, save and download the Prezi but they are not able to be private and can be seen by anyone on the Prezi Site.
- iv. Click continue button in the Public table.





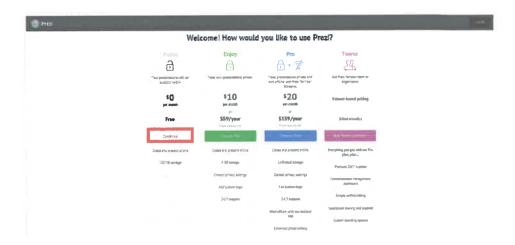


Figure 10: Licenses

v. You will then be directed to fill out your personal information. Fill in the registration form and click on the "Create your free Public Account" to Sign up.

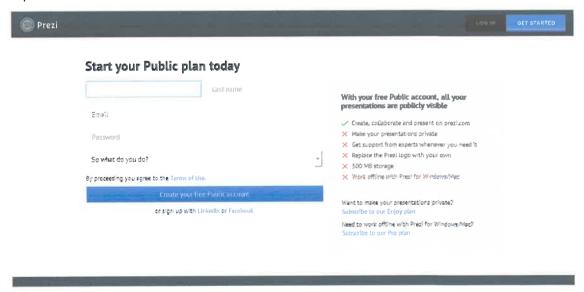


Figure 11: Registration form

4. Login

Open the Prezi Desktop. Log in by entering the email address and password.





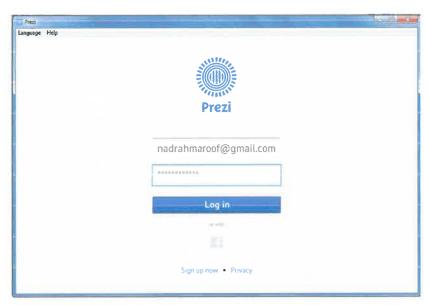


Figure 12: Log in

5. Create A New Prezi

Once you are logged in, you can get started creating your first Prezi. Click on the "New synced prezi" box.

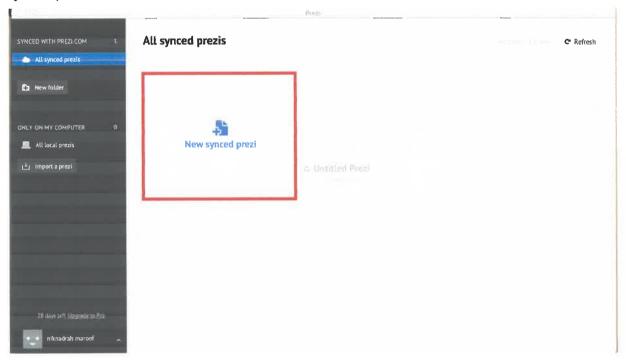


Figure 13: Prezi window





You will be given template options, but click instead the "Start blank prezi" link.

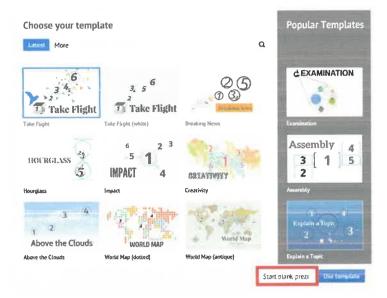


Figure 14: Template

You will likely see first an empty round frame that Prezi provides for inserting title information.



Figure 15: New canvas





6. Menu

6.1. Top Menu

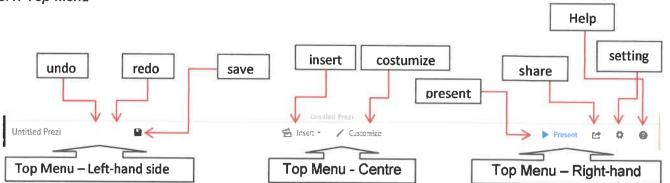


Figure 16: Top menu

- Top Menu Left-hand side: These options allow you present your presentation from the beginning, undo, redo and save any changes.
- Top Menu Centre: These options are used to insert content such as images, videos, icons and frames onto the canvas for your presentation.
- Top Menu Right-hand side: These options allow you to invite others to view your presentation online, save your presentation as a PDF, view settings, view help and save and close your presentation.

6.2. Left Sidebar

This pane shows the running order of your presentation. Frame option also located inside this sidebar. You may also edit your path through this pane.





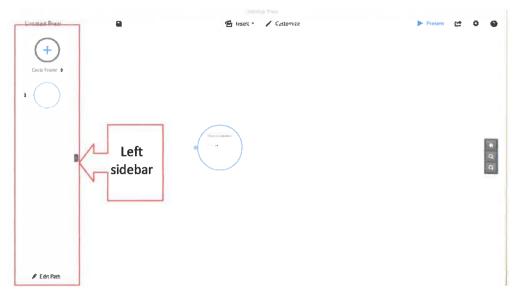


Figure 17: Left sidebar

6.3. Zoomable Prezi Canvas

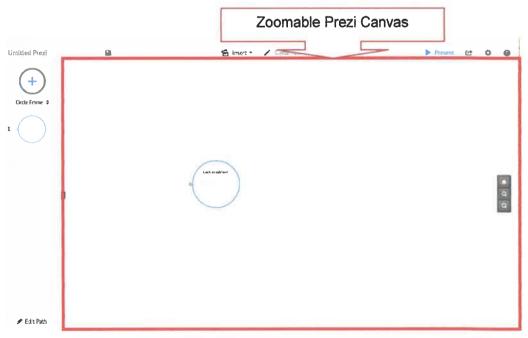


Figure 18: Zoomable Prezi Canvas





7. Working with text

Hover the cursor anywhere over the canvas. Click where you wish to add the text and start typing into the text entry box. You can also start the text tool any time, by pressing t on your keyboard, clicking somewhere, and start typing.

Any text you insert onto the canvas can be edited and customised. You can change the text type such as title, subtitle and body, size, colour, alignment and add bullet points. To close the text entry box, click anywhere on the canvas. Various fonts are available to use, but can only be changed when the theme is changed.



Figure 19: Text entry box

To alter text colour:

- Double click on the text you wish to edit.
- Highlight the text inside the box.
- Click on the Colour Selection button
- From the menu, select the colour you wish to apply to your text.
- Click anywhere on the canvas outside the text entry box to apply your changes.



Figure 20: Colour selection





To move text on the canvas:

- Single click on the piece of text you wish to move.
- You will now see the text you have selected surrounded by a blue box with other options
 housed above in grey boxes. This is known as the Transformation Tool.
- Click and hold the **Grab** button in the centre of the box and drag the mouse to move the text.
- Click anywhere on the canvas to set your text at that location.

To resize text:

- Single click on the piece of text to display the Transformation Tool.
- Single click the Increase or Decrease buttons to alter the size.
- Alternatively, you can resize the text by clicking and dragging any corner of the blue box
 - surrounding the text. This method allows you to resize text more precisely.
- Click anywhere on the canvas to finish.

To rotate text:

- Single click on the piece of text to display the Transformation Tool.
- Move the cursor close to the corner of the blue box and when the **rotate** icon appears, click and drag the mouse to rotate the text.
- Click anywhere on the canvas to finish.

8. Working with frames

Frames are useful to group several objects together on the canvas, allowing them to be viewed simultaneously when the presentation is viewed. Frames can be different shapes and sizes, both visible and invisible, and can be used to link objects together when using paths.

There are several frames to choose from, including brackets, circles, rectangles and invisible frames. Similar to PowerPoint, you can add animation to your frames to control how material appears, too.





To insert a frame:

- On the canvas, arrange any content together which you wish to appear inside the same frame.
- ii. Choose what type of frame that you want to use under the Draw Frame icon



iii. From the Left sidebar menu, select Draw Frame icon



iv. To draw the frame, click and drag around the objects and release the mouse button.

9. Paths

Paths control how content is viewed during the presentation, from one point to the next. However, you control what each point is, which can create zooming and swooping affects as you move between frames. To edit your path:

- i. Click the Edit Path button on the left sidebar. Begin by clicking on the element you want to zoom into first- most likely the title of your presentation.
- ii. Continue clicking on each object in the order that you want them to appear in your presentation. Notice the little numbers that pop up. This shows you the order.
- iii. If you make a mistake, you can also drag and drop the slides in the sidebar to quickly reorganize the order of the path as well.

10. Themes

To help make your presentation a little more interesting, you can change the theme you are using. This allows you to change the background colour, font type and colour, add a custom logo and change the colour of shapes, frames, arrows and lines.

You can select a theme from a collection of pre-sets using the **Themes** window or you can manually adjust the individual properties for each text type and colour, frame, shape using the **Theme Wizard**.





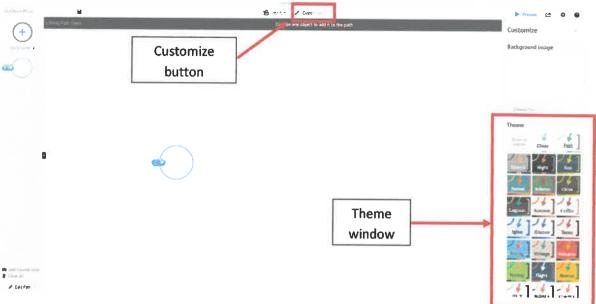


Figure 21: Theme wizard

10.1. Pre-set themes

To select a pre-set theme for your presentation:

- i. Click Customize located at the at the Top Menu Centre.
- ii. When the **Theme** window appears on screen, select one of the themes listed.
- iii. The new theme has now been applied. Note the changes to the background colour, font colour and frame colours. Changes will be made to all text, frames and shapes visible on the canvas.
- iv. To revert back to your previously used theme, click **Costumize** and select **Revert to original** from the list of themes.

10.2. Theme Wizard

The **Theme Wizard** is used to manually select which background, font type, colours and logo you would like to use in your presentation. You can either use the basic Theme Wizard to alter the colour properties of the objects (select a colour from a palette) or you can use the **Advanced Theme Wizard**, allowing you to input specific RGB colour values. Both menus contain a preview window, allowing you to see a visual representation of how your changes alter objects on the canvas, as they are made.

To edit your theme using the Theme Wizard:

- i. Click Customize located at the theTop Menu Centre.
- ii. Click Advanced at the bottom left corner of the Theme Wizard.





- iii. Select a colour from the palette for your background colour or enter your RGB values and once satisfied. You will see the background colour change in the preview window.
- iv. To view more options, select Next at the bottom of the Theme Wizard.
- v. Once you have made your changes to your theme, click Done.

You can save your customised theme by selecting **Save current theme** from the **Themes** window. It will then be added to the list of themes under **Your Themes**.

11. Inserting media content

Prezi allows you to insert a wide range of media content into your presentation. You can insert images, videos, PDFs, SWF files and live links to videos on YouTube. All media content placed on the canvas can be resized, moved and rotated.

11.1. Inserting media

There are two ways to insert an image onto your presentation canvas. You can either upload an image from a location on your computer or you can search Google Images from within the Prezi editor. Prezi supports image files with .JPG, .PNG and .GIF extensions. If your image file is not supported, you will be unable to locate it when asked to browse for an image to insert.

To upload an image from your computer:

- i. Click Insert located at the Top Menu Centre.
- ii. From the drop down menu, select Image....
- iii. Click Select files..., located at the bottom of the dialog box.
- iv. Locate the image you wish to insert and click Open.
- v. The image will now be placed onto the canvas.





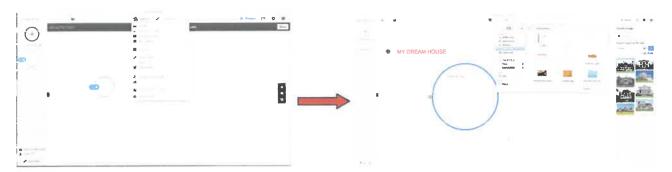


Figure 22: Image Upload

You can also upload video files, PowerPoint files and PDF files using this menu as it is not restricted to image upload only.

Alternatively, you can search Google Images directly within the Prezi editor. To insert an image directly from Google Images:

- i. Click Insert located at the Top Menu Centre.
- ii. From the drop down menu, select image....
- iii. When the search box appears, type in the name of the image you are looking for. For copyright reasons, it is advised you tick the checkbox to Search only for images licensed for commercial use before searching.
- iv. Click the Search button to begin searching for your image.
- v. Your search results will now appear on the canvas. You can scroll through and click on individual images to preview them. Images can also be moved around by clicking and dragging them, before they have been inserted.
- vi. Once you have selected an image from the list, click Insert to place the image on the canvas.

11.2. Add shapes

You can also add shapes like arrows, line, and highlighting. These are great for showing flow or relationships, as well as bringing focus to a particular idea. To upload an image from your computer:

- i. Click Insert located at the Top Menu Centre.
- ii. From the drop down menu, select Symbols & Shapes....
- iii. Choose styles that you want at the right sidebar.
- iv. Locate the shape you wish by dragging it into the canvas.





11.3. Editing Images

After inserting an image onto the canvas, you can alter the size, location and orientation using the Transformation Tool. You can also crop any images you have uploaded.

To crop your image:

- i. Single click on the image to display the Transformation Tool.
- ii. Click Crop Image Tp. Crop Image (above the image).
- iii. The Crop tool will now be visible around the image.
- iv. Click and drag the corners one at a time to crop the image.
- v. Once you are satisfied with your cropped image, click anywhere on the canvas for your changes to take effect.

12. Presenting your finished presentation

Prezi offers you a variety of ways in which you can view and share your presentation with others. You can view your presentation in Edit Mode, save it as a PDF, print, present online (up to 10 viewers at once), save for offline viewing and view using the Prezi viewer app (iPhone/iPad/iPod).

To view your presentation in Edit Mode:

- i. Click on the first path in the Left Sidebar.
- ii. Click on the next path you wish to view on the Left Sidebar. Alternatively, use the right and left arrow keys to move forward and backwards between paths.

To view your presentation in Prezi Editor:

- i. Click on the first path in the Left Sidebar.
- ii. Select Present Present located at the Top menu Right hand side.
- iii. Once in full screen mode, press the left arrow key to fully expand your first slide.

As before, you can control your presentation using the left and right arrow keys. You can also click the mouse on any part of the canvas to zoom into that specific area. To continue the presentation, press the left or right arrow key to move to the previous or next path.

You can also use the left and right arrow buttons at the bottom of the screen to move forward or backwards between paths.





Alternatively, you can also use the **Playback Bar** to move forward or backwards between paths. Click and drag to the left to go back and right to go forward.

To enter and exit full screen mode, use the **Fullscreen** button, located at the bottom right of the screen. You can use the **Esc** key on the keyboard to exit full screen mode.

Your presentation can be set to automatically move between paths using the **Autoplay** button. This allows you to set your presentation to automatically progress to the next path every 4, 10 or 20 seconds.

13. Downloading your Prezi

Prezi Editor allows you to create a portable presentation file to view and present offline or burn to a CD/pen-drive. Your portable presentation file cannot be edited offline, unless you are signed up as a Pro user and use the Prezi Desktop software.

To export the Prezi into a pdf file:

- i. In the Prezi Editor, click **Share** at the Top menu Right-hand side.
- ii. On the drop down menu, click Export to PDF
- iii. When the PDF has been created, "Finished all pages" will appear.
- iv. Click Save PDF, rename your file, then save the file in the desired location.

To export into a portable prezi:

- i. In the Prezi Editor, click **Share** at the Top menu Right-hand side.
- ii. On the drop down menu, click 👤 Export to portable prezi
- iii. An export window will be appearing. Rename the file, then choose the desired location to save the file and click save.





REFERENCES

Mohd Ali Mohd Isa & Ramakrisnan, P. (2013). *Introduction to Prezi*. Retrieved from http://ilearn.uitm.edu.my/v2/wp-content/uploads/2013/04/IntroductionToPrezi.pdf

Platform provided by Digication, Inc.. (2015). Online Manual for Making a Digital Story with Prezi. Retrieved from https://stonybrook.digication.com/stony_brook_eportfolio_showcase/Online_Manual_for_Prezi

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Appendix I:

Google Apps Assigment

Google Apps is the communication and productivity tools that have been composed by the Internet search engine company, Google by provide many innovative web services, which are free of charge. Google Apps is a collection of tools which can be thought of as a free replacement for the Microsoft Office suite. Google Apps also provides the user with collaborative functions that add functionality to the traditional word processing, spreadsheet, and presentation tools. Although there are many different collaborative tools on the web, Google has remained a front runner in this market (Hall, Nousala, & Vines, 2010). Google's reign of the online software collaboration market is mainly due to it being the only solution that allows for multiple users to simultaneously edit a common document. In the scope of library and librarian in term of library services, there are a few Google Apps that can be implemented which might benefit the library and the users itself.

i. Google+

Google+ is an application that lets their user create their own presentation page for socializing purposes. It allows user to share their ideas, books, personal creations, as well as information, photos, audio-visual materials uploaded into the application. In terms of design and functionality Google+ resembles Facebook, the difference being that this page is only visible inside the domain. Library can use this application as the medium to promote the library services and activities instead of sharing and gaining knowledge between the libraries community.

ii. **Gmail**

One of the key components to Google Apps is Google Mail, also called Gmail. As an e-mail client, Google Mail has a very different way of presenting and managing e-mail. Most e-mail client programs use folders to organize e-mail. In place of folders, Google uses labels and conversations. Labels are similar to tags in other data management systems where labels are identifiers attached to individual messages. In terms of security, Google's integrated security features for e-mail include spam blocking, virus scanning and SSL encryption. Hence, staffs or even users can interact between each other in safer and faster way apart from the traditional method that required waiting for the mail being processed that some time might take such a long period to be delivered to the receiver.

III. **Google Drive**

This app is the most complex and allows working online. User also might import and exporting files or folders which successfully replace the Microsoft Office applications such as Word, Excel and Powerpoint to usage of the Google Docs, Spreadsheets and Slides. Additionally, it provides the tools necessary to create forms, questionnaires and tests. The app also allows the upload of various other types of files which can be stores on the user's own virtual disk. The selective sharing of content can be managed with the help of options. Items can be accessed or downloaded by all users or only by appointed users. Through the usage of the Google Drive, there will be produce such a paperless library management.

iv. **Google Calendar**

In its most basic form, Google Calendar is much like many other calendaring applications, and all of the basic functionality users have come to expect is found within it. Key differences are the ability to create and manipulate different calendars for different purposes or resources, and the versatility of reminders. Calendars can be assigned unique names, color-coded, and overlaid in the application display, so that users can easily see which events belong to which calendar, and can toggle whether to view each calendar. This is especially useful for scheduling multiple people or resources. A calendar may be shared with any individual or Google group includes everyone in your domain, or to the general public. On the other hand, resources may be scheduled with Calendar. A "resource" is anything that can be reserved for an event such as a classroom, a meeting room, a portable media cart, a classroom helper or a projector are all possibilities. Reminders may be set on events and can be in the form of application pop-ups, e-mails, or SMS messages. Library is urged to use Google Calendar to schedule any event or meeting as it can easily used to remind the staffs or library users. Apart from that, any reservation of the library's facilities will become more systematic and can be done by the user itself through the net.

Google Sites V.

The Google Site allows users to create their own websites. The website could include the entire Google Apps product. On the other side, Google Sites is very similar to Google Drive, in those users which primarily, teams of users can create content and share with each other. Sites, however, are intended from the start to be published on the Web either publicly or privately and interacted with in that manner. A published Site can be viewed by others depending on the privacy settings assigned to it without a

Google account, from any web browser. A Site is similar to a small-scale wiki or content management system (CMS). A Site is a collection of group documents interactively published on the Web. This App can be a medium for the staffs or users to share anything between them include documents, video, photo slide shows, and Google gadgets as a Site can be a repository for file uploads for group projects.

Implementing technological support provided by Google Apps towards the library could maximize the productivity of services and give benefits either towards the librarian or the users. Those tools and the files created are available anywhere, at any time, from any computer or devices that connected to the internet. A good library is a library that acts as a leader or model to their user by suggesting the most up to date technology and could implement it towards their core work process day by day.

Appendix J:

Knowledge Management essay

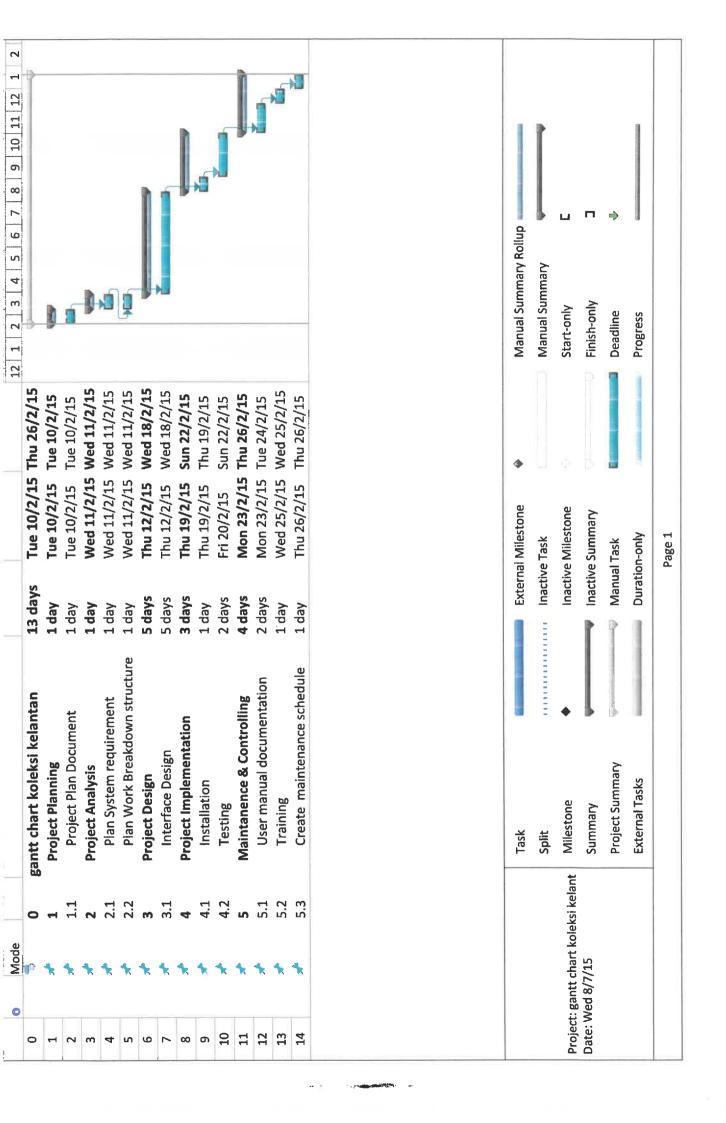
Knowledge management may be defined as the set of processes
that create and share knowledge accross an organization to optimize
the use of judgement in the attainment of mission and goals increases
in organizational information and chance laws of mission and goals increases
in organizational information and change have created a great need to
manage knowledge to ensure effectiveness trence knowledge management
is the art of creating value from an organization's knowledge assets
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In the case of library, it is clear that library have excelled at
Therefore knowledge and intelligence from data into wisdom
Therefore knowledge management need to be use in order to improve
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using a life cycle process, that consisting of accions
storage and retrieval and dissemination
knowledge with receiving feedbacks.
The pragmatic approach of Knowledge Management in
brary include the following five Steps of the life cycle
process:
1) Acquisition of knowledge
The process of acquiring knowledge resources through the
resources creation of
conversion of knowledge from traditional to digital format and
in the signal turner and

gothering resources from the web, etc.
2) Organization of knowledge
The process of building the knowledge base of a library
by converting tacit knowledge to explicit knowledge in a
usable form, and by providing means of codifying
categorizing, indexing, and accessing explicit information
and for uncwledge.
3) Horage and retrieval of knowledge.
- The process of storing the organized knowledge in the
- organizational repositories for preservation as well as
multiple uses through the application of a number of
retrieval tools and techniques
4) Dissemination of knowledge
The process of transferring knowledge by magns of different
approaches and services that facilitates practicing, sharing
applying, utilizing and using information and knowledge
In library.
5) Feedbachs.
The process of receiving responses from the knowledge
consumers in library as regard to the extent of satisfying
their unewiedge needs
On the other hand, each cycle could be adopted various
of knowledge management tools through non-IT based tools
or IT or technology based tools. Example of non-IT-based
tools are guest speaker knowledge exchange or exit
interviews, poer assist, read maps, community of practice,
social network analysis, taxonomy and so on while for
IT or technology based tooks, the category includes
content management, social content, white boarding.
document sharing video recording mind mapping and
diagramming intranet / portal, instant messaging / chat,
file sharing video conferencing, web/multimedia presenting and other

In conclusion knowledge management could bring
libraries closer to their parent organizations and might
help them to survive in an increasingly diallerging environment
Library practitioners need to broaden their understanding
change traditional mindset to apply the knowledge
management approach in library practice focusing on both
explicit and tacit knowledge

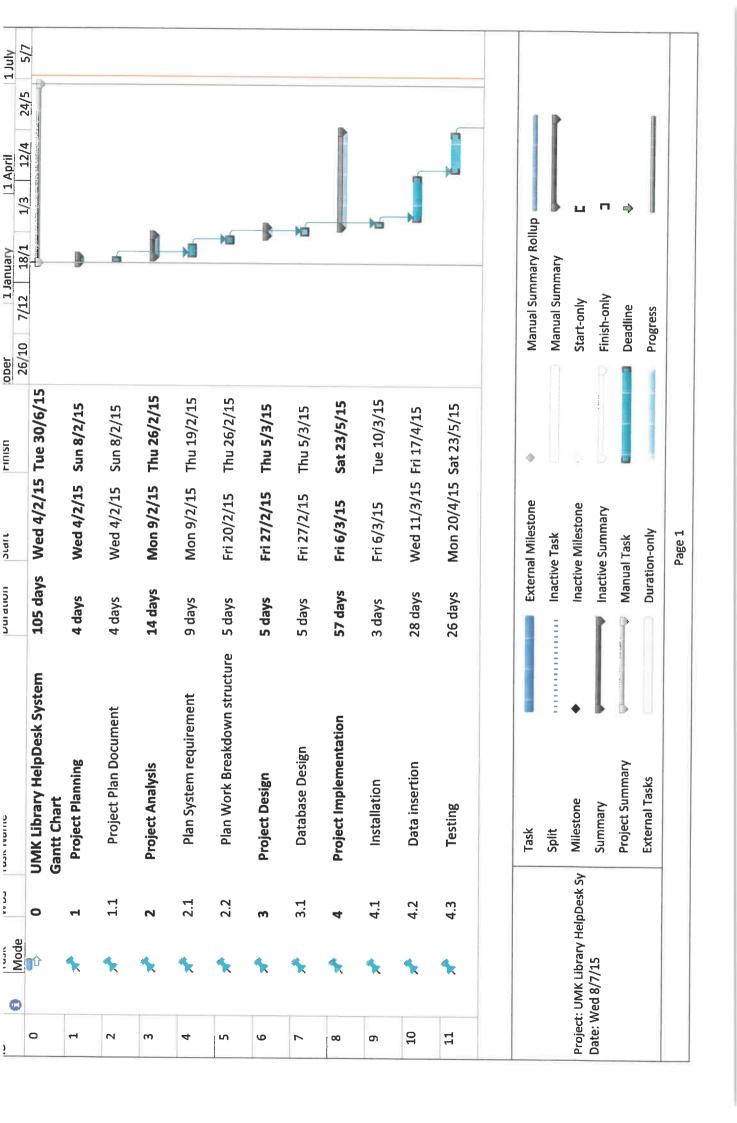
Appendix K:

Gantt chart of Digital Kelantan Collection



Appendix L:

Gantt Chart of UMK Library HelpDesk Support Ticket System



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	Sun 24/5/15	Sun 24/5/15 Mon 15/6/15	Tue 16/6/15 Sun 21/6/15	Mon 22/6/15 Sat 27/6/15	Sun 28/6/15 Tue 30/6/15	External Milestone	Inactive Task	Inactive Milestone	Inactive Summary	Manual Task	Duration-only
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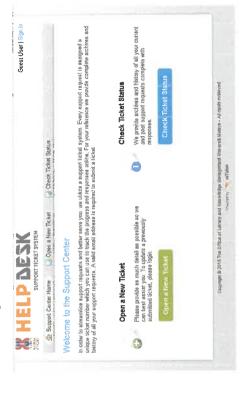
Appendix M:

User manual of UMK Library HelpDesk Support Ticket System

LOGBOOK

USER

1. Click open new ticket.



2. Fill in the form and clicks create ticket to send.

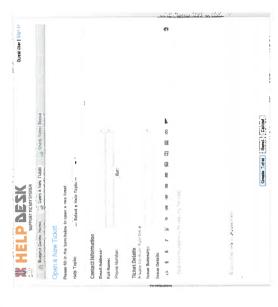
SUPPORT TICKET SYSTEM

USER MANUAL

HELP DESK

UNIVERSITI MALAYSIA KELANTAN

UMK LIBRARY



3. Enter email address and ticket number sent to your email to check the ticket status.

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4. Sign in for faster retrieval.

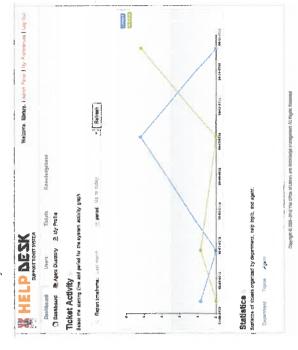
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AGENT

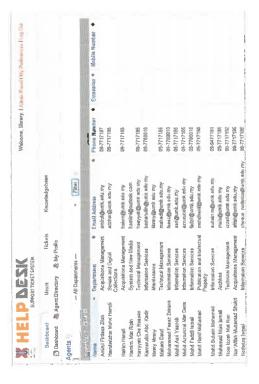
1. Log in.



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View agent directory.



4. Edit account profile.

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View user directory.



6. Lookup or create user.



7. Import user.



8. Organizations information.



9. Add new Organization.



10. Open tickets.



11. Advanced ticket search.



Answered ticket.



13. Assigned ticket.



Overdue tickets.



Closed ticket.



Knowledgebase.



ADMIN

System Logs.



2. System's information.



3. System setting and preferences.



4. Company Profile.



5. Ticket setting and option.



6. Email setting and options.



Access control setting.

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8. Autoresponder setting.



9. Alerts and Notices setting.



10. Manage Help Topics.



11. Add new help topic.



12. Ticket filters.



13. Add new filter.



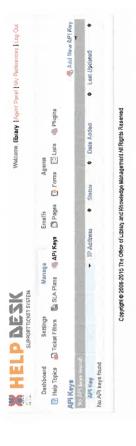
14. Manage Service Level Agreement (SLA).



15. Add new SLA.



Manage API Keys.



17. Add new API key.



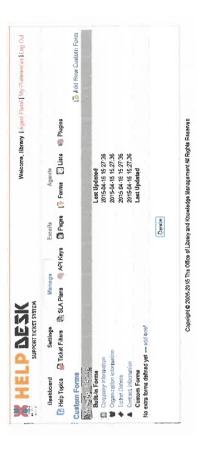
Manage site page.



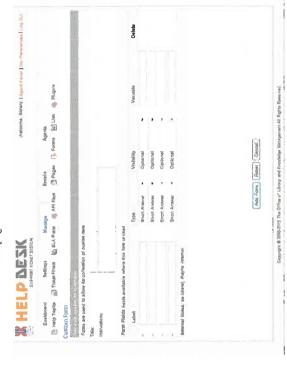
Add new page.

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77	Destriboard (3) Haip Topios	She Pages	Page infometron	Name:	lype:	Stehus	5 0	gernař Nov	

20. Manage Custom forms.



21. Add new Custom page.



22. Manage custom list.

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Walcome, Uprary (Agest Panel (A)) Preference (12) Det	Agents Forms [1] Llets 🦛 Plugins		Last Updated 2015-04-16 15.27,38		ridge Management Alf Rights Reserved
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W HELP DESIGN SUPPORTITIONER SYSTEM	Dauhhoerd Sertings	Custom Lists	Little Natives Ticket Statuess Salact, All None Toggle	Page [1]	

23. Add new custom list. (definition).



24. Add new custom list. (items).



25. Add new custom list. (properties).



26. Manage Plugins.



27. Add new Plugins.



28. Email addresss.



29. Add new email address.



30. Banned email address.



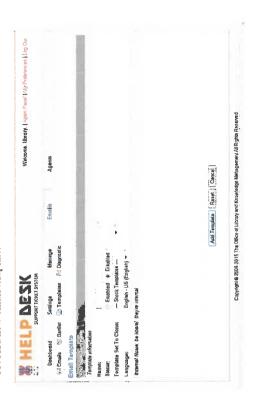
31. Manage email ban rule.



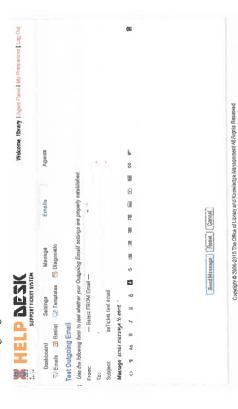
32. Email template sets.



33. Add new email template.



Test outgoing email.



34. Agents directory.



Add new agent.



35. Teams directory.



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Add new team.

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1.5	Deshboard Agents	Team	ALC: U	feam Astormation	Name:	Statulic	Team Lead:	Assignment Alert:	nin Notna. I		

36. Agent groups.



Add new group.



37. Department directory.



38. Add new department.



KERAJAAN MALAYSIA

NOMBOR:

KERAJAAN MALAYSIA

2

NOMBOR:



NAMA: NIK AMIERAH NOORNADRAH MA'ROOF

KEM/JAB: PEJABAT PERPUSTAKAAN & PENGURUSAN ILMU, UMU

KAD MENCATIT WAKTU

BULAN

TAR.	MASUK	KELUAR	MASUK	KELUAR	KENYATAAN	T/T KETUA
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1	800	5.00				8
2	8.00			817:13		
3	207:40			817:04		
4	\$07:29			317:08		
5	807:30			815:39		
6						
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8	207:36			817:16		
9	207:4€			S17:07		
10	907:36			\$17:07	Alleg Allenders garages	
11	Z07:40		,	=17:09		
12	₩07:38			215:40		
13						
14						
15	207:39			217:07		

AMARAN

Pegawai / Kakitangan yang menolong mencatitkan waktu kad seseorang Pegawai/Kakitangan lain akan dikenakan tindakan tatatertib keatasnya.

SOS 09-7831094 ·



NAMA: NIL AMERAH NOORNADRAH MA'ROCF

KEM / JAB: PEJABAT PEPPUSTAKAAN & PENGUPUSAN ILMU LUMK

KAD MENCATIT WAKTU

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24	#07:33	#17:08			AMARINE TO THE RESIDENCE OF THE PARTY OF THE	1
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26	₩07:36			%15:38		
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31					Warnen .	-

CATITAN



NOMBOR:



NOMBOR:

NAMA: NIK AMIERAH NOORNADAAH & MA'ROOF

PEJABAT PERPUSTAKAAN DAN PENGUPUSAN ILMU , UMK

KAD MENCATIT WAKTU

BULAN

TAR.	MASUK	KELUAR	MASUK	KELUAR	KENYATAAN	T/T KETUA
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2	E07:30			817:15		
3	207:32			818:07	1	-
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7			8			-
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15	207:2	2		217:	10	

AMARAN

Pegawai / Kakitangan yang menolong mencatitkan waktu kad seseorang Pegawai/Kakitangan lain akan dikenakan tindakan tatatertib keatasnya.



NAMA: NIK AMIERAH NOORNADRAH BI MA'ROOF

PEJABAT PERPUSTALAAN DAN PENGUPUSAN ILMU, UMK

KAD MENCATIT WAKTU

BULAN

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31				F17:0	9	

NOMBOR:



NOMBOR:

NAMA: NILL AMIERAH NOOPNADRAH BT MAROOF

KEM/JAB: PEJABAT PERPUSTAKAAN X

KAD MENCATIT WAKTU

BULAN APPIL

TAR.	MASUK	KELUAR	MASUK	KELUAR	KENYATAAN	t/T Ketua
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5	207:32			£17:16		
6	¥117:22			¥17:20		1_
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8	207:30		1	817:06		1
9	207:15			816:34		
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12	S117:46			217:04	52	
13	207:26			217:15		
14	\$07:27			\$17:10		
15	≌07:32			1217:12		

AMARAN

Pegawai / Kakitangan yang menolong mencatitkan waktu kad seseorang Pegawai/Kakitangan lain akan dikenakan tindakan tatatertib keatasnya.



NAMA: NIK AMIERAH NOORNADPAH BT MA'ROOF

KEM/JAB: PEJABAT PERPUSTAKAAN & PENGURUSAN ILMU , UMK

KAD MENCATIT WAKTU

BULAN APRIL

TAR.	MASUK	KELUAR	MASUK	KELUAR	KENYATAAN	T/T KETUA
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31				Color of Arthropical		

CATITAN

4



NOMBOR:

IMA: NIK AMIERAH NOORNADRAH MA'ROOF EM/JAB: PEJABAT PERPUSTAKAAN DAN PENGURUSAN ILMU JUNK

KAD MENCATIT WAKTU

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MASUK	KELUAR	MASUK	KELUAR	KENYATAAN	T/T KÆTUA
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AMARAN

Pegawai / Kakitangan yang menolong mencatitkan waktu kad seseorang Pegawai/Kakitangan lain akan dikenakan tindakan tatatertib keatasnya.

SOS 09-783109

NOMBOR:

NAMA: NIK AMIERAH NOORNADRAH MA'ROOF

KEM / JAB: PEZABAT PERPUSTAKAAN DAN

KAD MENCATIT WAKTU

BULAN ML)

KERAJAAN MALAYSIA

TAR.	MASUK	KELUAR	MASUK	KELUAR	KENYATAAN	T/T KETUA
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19	S07:41	=		£17:17		
20	207:29			817:21		
21	₹07:23		5	#15:47	**	
22					72	
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29				2477		
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31	ਜ਼07:18	(1) 193		분17:08	3	

CATITAN



NOMBOR:



NAMA: WHE AMIERIAH NOOKNADRAH

KEM / JAB: PETABAT PERPUSTAKAAN & PENGUPUSAN ILMU, UMK

KAD MENCATIT WAKTU

BULAN JUN

TAR.	MASUK	KELUAR	MASUK	KELUAR	KENYATAAN	T/T KETUA
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25	F.07:28			00.500		
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28	207:58			2016:13)	
29						
30				4		
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CATITAN



NOMBOR:

IAMA: NIK AMIERAH NOORNADPAH MAROUF EM / JAB: PERPUSTANAAN &

PENGURUSAN ILMU

KAD MENCATIT WAKTU

JULAN JUN

MASUK	KELUAR	MASUK	KELUAR	KENYATAAN	T/T KETUA
E07:22			317:24		
207:24			217:14		
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8 7:27			817:11		
S17:25			817:12		
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¥0 7 :37			\$17:00		
207:43	建 1.53	27	217:15		

AMARAN

Pegawai / Kakitangan yang menolong mencatitkan waktu kad seseorang Pegawai/Kakitangan lain akan dikenakan tindakan tatatertib keatasnya.

INDUSTRIAL TRAINING STUDENT CHECKLIST