UNIVERSITI TEKNOLOGI MARA

Public Interest Centre of Excellence

International Teaching Aid Competition 2023

Reconnoitering Innovative Ideas in Postnormal Times

iTAC 2023

iTAC 2023
INTERNATIONAL TEACHING AID COMPETITION
E-PROCEEDINGS

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PREFACE

iTAC or International Teaching Aid Competition 2023 was a venue for academicians, researchers, industries, junior and young inventors to showcase their innovative ideas not only in the teaching and learning sphere but also in other numerous disciplines of study. This competition was organised by the Special Interest Group, Public Interest Centre of Excellence (SIG PICE) UiTM Kedah Branch, Malaysia. Its main aim was to promote the production of innovative ideas among academicians, students and also the public at large.

In accordance with the theme "Reconnoitering Innovative Ideas in Post-normal Times", the development of novel ideas from the perspectives of interdisciplinary innovations is more compelling today, especially in the post-covid 19 times. Post-pandemic initiatives are the most relevant in the current world to adapt to new ways of doing things and all these surely require networking and collaboration. Rising to the occasion, iTAC 2023 has managed to attract more than 267 participations for all categories. The staggering number of submissions has proven the relevance of this competition to the academic world and beyond in urging the culture of innovating ideas.

iTAC 2023 committee would like to thank all creative participants for showcasing their innovative ideas with us. As expected in any competition, there will be those who win and those who lose. Congratulations to all the award recipients (Diamond, Gold, Silver and Bronze) for their winning entries. Those who did not make the cut this year can always improve and join us again later.

It is hoped that iTAC 2023 has been a worthy platform for all participating innovators who have shown ingenious efforts in their products and ideas. This compilation of extended abstracts published as iTAC 2023 E-Proceedings contains insights into what current researchers, both experienced and novice, find important and relevant in the post-normal times.

Best regards,

iTAC 2023 Committee
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ABSTRACT

The purpose of this project is to assist Kolej Poly-Tech Mara (KPTM) Bangi's Year 3 Bachelor of Arts (Honours) in Accounting and Finance (BAAF) students in completing a capstone project because they are struggling to get started. Therefore, Capstone-P :: Rapid Search is becoming a platform which would be helpful for students and supervisors to do a capstone project. This platform provides the title, abstract, keywords, variables and information related to the publication of previous capstone projects. This project aims to describe the development of Capstone-P :: Rapid Search using the Google Data Studio and Google Sites as the platform. ADDIE Model was used as the methodology which is an instructional design method that can help researcher plan and run smoothly the creation of their course content. In ADDIE Model, there are five stages of a development process that stands for analysis, design, development, implementation, and evaluation. The purpose of our study is to establish validity for the research results using a small number of users. Primary data was used in this project, where the data were collected through questionnaires from Year 3 BAAF students at KPTM Bangi. The questionnaire consists of two sectors which are Section A for Demographic Profile and Section B for Usage of Website. The responses are unanimous in their agreement that the Capstone-P :: Rapid Search website is effective and suited for the usability and learning process, as indicated by the questions' ranking of 4. The majority of users genuinely think the Capstone-P :: Rapid Search website is beneficial, as indicated by the median and mode of this construct, which are both 4. The average respondent agrees that the Capstone-P: Rapid Search website has the capabilities expected, is easy to navigate, is flexible to access, is effective, and is suited.

Keywords: capstone project, rapid search, ADDIE model

INTRODUCTION

Every final-year student has a project that needs to be completed as one of the requirements for graduating, for example, a capstone project, but many students nowadays struggle to come up with a topic, collect articles, and develop a research proposal.

According to the challenges faced by students, it can be concluded that they continue to have a tough time finishing their final projects, recognising issues, accessing research data, and locating references or literature. If it is not set up properly and appropriately, it will worry that the final project will have issues (Siregar and Rahma, 2022).

Problem Statement

Kolej Poly-Tech Mara (KPTM) Bangi's Year 3 Bachelor Arts of Accounting and Finance (BAAF) students are required to do a capstone project, as one of the prerequisites for graduating; nevertheless, many students find it difficult to come up with a topic, gather resources, and create a research proposal. Due to that, Capstone-P :: Rapid Search makes it easier for students to look up a topic and create ideas when used as a learning tool. By doing so, it will be possible to avoid using titles created by former students. Rapid Search is an online system for Year 3 BAAF students in Kolej Poly-Tech MARA (KPTM) to assist them in easily searching previous capstone papers done by their seniors. This will provide them a clear idea of what they should do as well as make it easier for them to choose a topic for their capstone project.

Research Objectives

The following objectives have been set for this project:

1. To provide a platform for students and supervisors to get a brief information about previous capstone projects.
2. To maintain the information for the future usage.

LITERATURE REVIEW

The rapid distribution of knowledge and information on the internet resulted in the development of an application that enabled students and supervisors to get information and ideas in a range of variety formats on multimedia platforms. This section demonstrated several multimedia examples that emphasised the usage of Google features to influence student's learning.

Google Data Studio

Google Data Studio or also known as Looker Studio is an online platform for transforming data into personalised useful reports and dashboards. It is a data representation that helps to design and analyse reports. It allows you to import data sets from multiple sources into a single place and convert that information into an easy-to-understand analysis (Bonelli, 2022). Google Data Studio is interesting and useful since it can get data from several sources. This allows it to combine data from 23 Google connections, such as Google Sheets, Google Analytics, and MySQL, into reports. Users are able to build easy-to understand and concise reports and dashboards that are basic and straight forward to publish when using Google Data Studio (*How Does Google Data Studio Help Marketers?*, n.d.). Users can see the dashboard that was created before embedding it into Google Sites.

Google Sites

Google Sites allows you to build a webpage without knowing how to code. It is something similar to other website systems such as WordPress or Wix; consider Google Sites to be something comparable but possibly more specialised for enterprises and web-based teams (https://www.facebook.com/lifewire, 2008). As compared to other platforms, Google Sites is one of the most user-friendly since it does not need any kind of special permission to access data. Accessing information that is hosted on Google Sites is substantially simpler for students or supervisors. It is the most convenient method for gaining rapid and easy access to the most recent version of the information.

Furthermore, in this Capstone-P, there are features that already link with Google Data Studio. On this page, users can look up capstone projects from previous students. Users can search for a keyword they want to find, and the data (title, abstract, IV, DV, and publication) will appear, as shown in Figure 1. Google Sites is a powerful platform that simplifies the process of making a website.

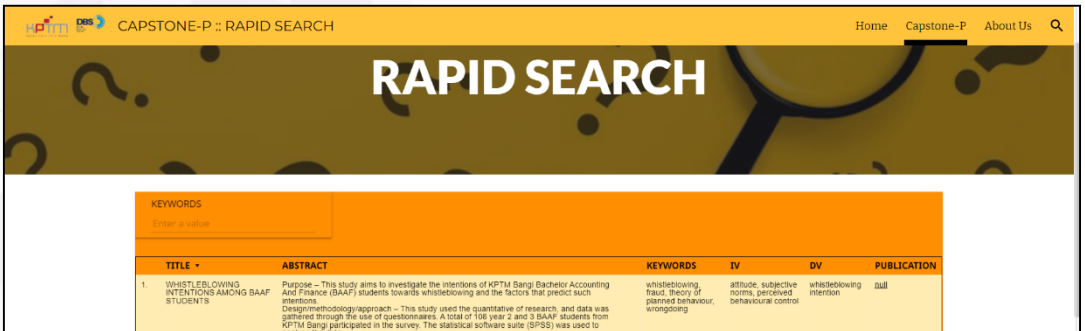

Figure 1. Capstone-P :: Rapid Search

METHODOLOGY

Research Design

In this project, the ADDIE Model was used as the methodology, which is an instructional design method that can help you plan and run smoothly the creation of your course content. The ADDIE Model may also make it simpler to assess the evolution of larger units and project management. In the ADDIE Model, there are five stages of a development process that stand for analysis, design, development, implementation, and evaluation (Kurt, 2018). Table 1 below demonstrates the stages of the ADDIE model.

Stages	Activities	Tool	Outcome
Analysis	- Identify problems faced by students - Identify requirements for hardware and software	- Observations - Researches	- Problems identified - Identified requirements for hardware and software
Design	Design website for students to access	Google Sites	Website
Development	- Organize data in Excel - Transfer the Excel to Data Studio - Make a Site where students can access	- Excel - Data Studio - Google Sites	- Data are organized - Keywords can easily find using Data Studio - A platform that easy to access previous Capstone Project is created
Implementation	- Open rapid search on browser - Test functionality	Browser	Test functionality

Evaluation	- Usability testing and evaluate by user	Google form questionnaire	- Testing usability - 50 evaluation users

Table 1. Stages of ADDIE Model

RESULTS AND FINDINGS

The statement of user evaluation for usage of the website, using a 5-point Likert scale, is shown in Table 2, along with the mode, median, mean, and standard deviation. The responses are unanimous in their agreement that the Capstone-P :: Rapid Search website is effective and suited for the usability and learning process, as indicated by the questions' ranking of 4. The majority of users genuinely think the Rapid Search website is beneficial, as indicated by the median and mode of this construct, which are both 4. The average respondent agrees that the website has the capabilities expected, is easy to navigate, is flexible to access, is effective, and is suited, with a mean value of 4.17 above. All the questions with standard deviations below 1 indicate that respondents generally agreed that the Capstone-P :: Rapid Search usability of the website was effective and suitable.

NO	STATEMENTS	MODE	MEDIAN	MEAN	SD
1.	The website is easy to navigate.	4	4	4.26	0.68
2.	The website application works the capabilities as expected.	4	4	4.24	0.76
3.	The contents are clear and easy to understand by user.	4	4	4.24	0.76
4.	Flexible and allow user to access all the content.	4	4	4.18	0.71
5.	The overall usability and information are useful/ functional.	4	4	4.21	0.70

Table 2. Statement for Usage of Website with Mode, Mean and Standard Deviation

CONCLUSION

In conclusion, this website platform assists students and supervisors in maintaining and updating their capstone projects. Therefore, it can benefit students and supervisors in handling their capstone projects. Since all BAAF Year 3 students are required to complete a capstone project, doing so can be advantageous for both students and their supervisors. Many students are satisfied with the Capstone-P :: Rapid Search website, which helps students access data in order to brainstorm some ideas when doing their capstone project. In this study's prototype development, it was found that the ADDIE model was useful and adequate. The Capstone-P::

Rapid Search website still needs to be enhanced by adding some other innovative features. All the feedback received can be used as motivation and ideas to develop a better Capstone-P:: Rapid Search website in the future.

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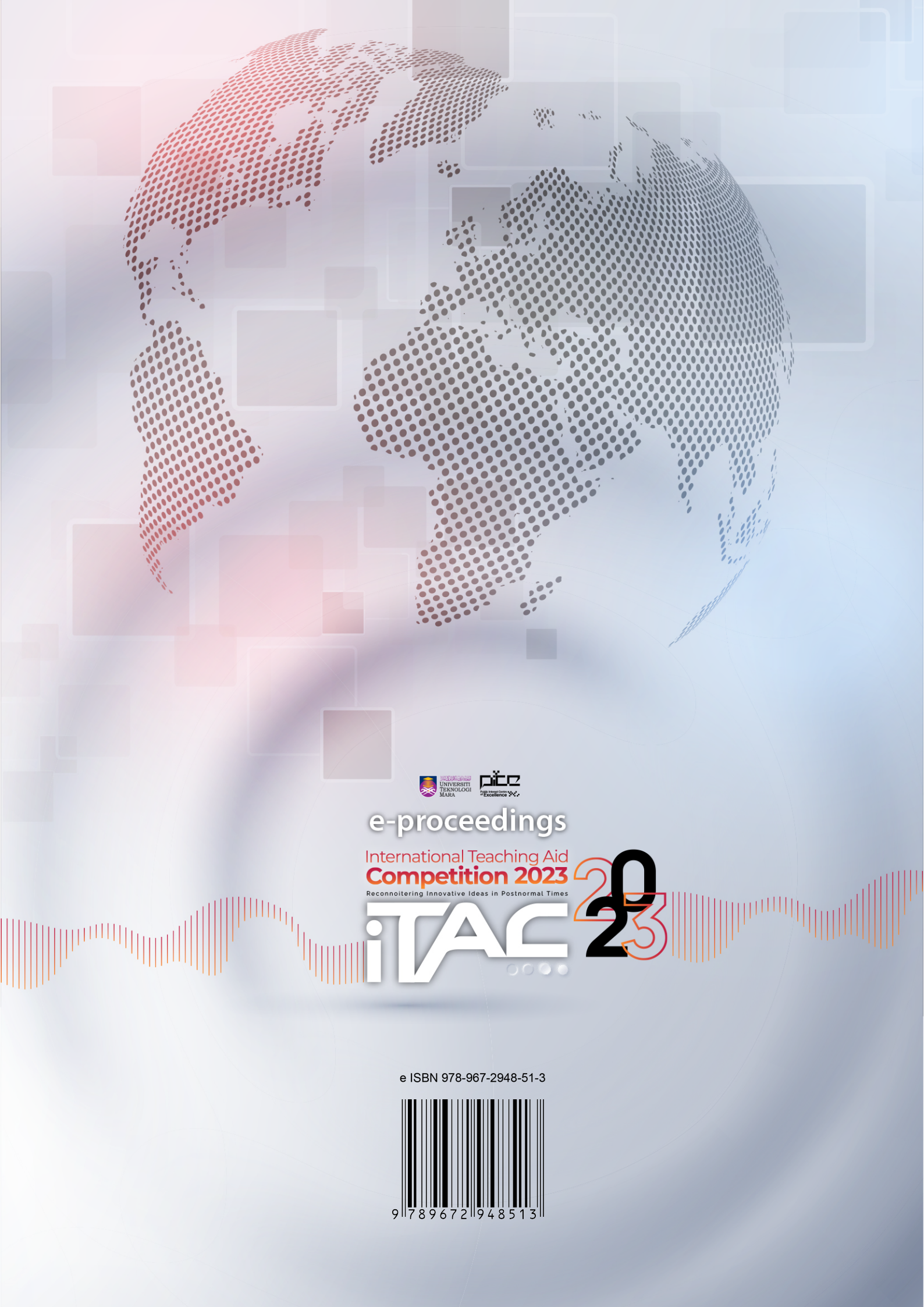

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