

## **IMPLEMENTING PLANNER EDUCATION WEB-BASED SYSTEM**

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**ABSTRACT** - A web-based education system using the Laravel framework assists the university community efficiently. The user can create the schedule for a class, and Create, Read, Update, and Delete (CRUD) operations are performed within the lists shown in the radio button in the services section on the navigation bar. Besides, there is other information, for instance, the list of current courses and the teams. The upcoming event is also displayed to notify the user. A few templates are used in this project. The goals of this project are to design a planner of an education system for the computer science community in UiTM Perlis Branch, to develop a web-based system built by the deviser with Laravel, and to evaluate the web-based using User Acceptance Testing (UAT). Appropriate development approaches use the Agile Model, which acts as a guideline in the development of a web-based with 6 phases. Overall, Laravel's templates increase the organization, maintainability, and developer productivity of the code by offering an organized and efficient method to develop user interfaces. The development involved numerous software. To identify whether end-user requirements are met for acceptability, UAT is conducted. The results will be displayed on the results page after the study is completed.

**Keywords:** Education, planner, schedule, Laravel

### **1. INTRODUCTION**

The scheduler system is part of the framework to create the schedule for the students and lecturers in the computer science community at UiTM Perlis Branch efficiently. A scheduler is something that creates a plan for the activity that needs to be performed. A maneuverer is a person skilled in maneuvering and a person who makes plans for a system. To give an illustration, a student or lecturer will update the system to get the schedule for a class. The list of groups, lecturers, subjects, places, and the schedule will be shown in the menu in the radio button for the student to select the class. The table of the schedule will be shown after the user selects the groups, lecturer, subjects, and places. The user can add a new element to each list to create another list which will be shown in the row column. The goals of this project are to design a planner of an education system for the computer science community in UiTM Perlis Branch, to develop a web-based system built by the deviser with Laravel, and to evaluate the web-based using User Acceptance Test (UAT).

### **2. METHODOLOGY**

All methodology that has been used in the work must be stated clearly and subtitles should be used when necessary. The Agile Model technique, which divides the project development process into different phases such as requirements, design, development, testing, deployment, and review is the initial step in this project's development. In the Requirements phase, the articles were studied from the library to write the documentation. Diagrams.net was used in the design phase. The development involved the software which are Composer, Laragon, Node.js, SQLyog Community, and Visual Studio Code. UAT was performed in the testing phase. In the deployment phase, numerous templates were used. The plagiarism checker is used to check the thesis in the review phase.

### **3. RESULTS AND DISCUSSION**

UAT in which the participants were given a set of questionnaires asking them to rate 16 questions on a scale of 1 to 5, including questions about the respondent's background and user feedback on using the web-based system, was implemented to review the responses of 36 participants. The Technology Acceptance Model (TAM) has different sections, which are the Attitude of Using (ATT), Perceived Ease of User (PEOU), and Perceived Usefulness (PU) categories are used to determine the outcome and analysis 1 of the 36 participants was an expert reviewer. For the category involved, 97.2% show that they are students. The expert review represents 2.8% and he is a software engineer.

#### **4. NOVELTY OF RESEARCH / PRODUCT**

This project contains a planner for education web-based which implements the schedule and additional information for students or lecturers. Known for being reliable and simple to grasp, Laravel is an open-source PHP framework. The design pattern used is model-view-controller. Laravel provides developers with a built-in library of tools that minimizes the amount of code they must accomplish.

#### **5. CONCLUSION**

In summary, web-based planner education assists the university community in providing current information and creating a schedule. The project's objectives have all been met successfully. With this system, it can benefit the students and lecturers efficiently and effectively.

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