



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Application Development Project Proposal

SCSV 3104 - 01

Productivity Application

Group : Savvy-Tech
Project Title : Schedule Management App (iScheduler)
Project Manager : Mohd Anas Bin Adnan (B19EC0033)
Group Member : Muhammad Amirul Fahmi bin Noor Anim (B19EC0018)
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Executive Summary

One of the most significant and useful items in the education sector is the timetable. The timetable can be used by students and lecturers to manage their day to day schedule. With the ubiquity of mobile devices usage among students and lecturers in university and the advent of mobile application, the old timetable can be re-engineered and optimized by leveraging available technology. By re-design the old timetable into a mobile application, many improvements can be made to make the schedule more interesting, motivating and fun to be used. For example, by using technology in mobile applications, the user interface can be enhanced. Schedulers are very helpful for students and lecturers to manage their own time wisely. For students, they can check their class time and location on the fly. Lecturers can manage their subject timetable according to time, date and class location. By using mobile, it will be more convenient for students and lecturers to check their timetable.

In the existing system, which is the website version of the timetable, you can access it using the browser in a smartphone, but it is considerably slower and the user interface looks boring. The view is not dynamic when using a smartphone as the website does not adapt to the screen resolution and screen ratio. All the font size becomes small and can hardly be read. Other than that, some of the contents cannot be viewed because it does not fit into the screen. Overall, the experience of accessing the website using a browser in a smartphone is terrible. Therefore, by adapting the website version into a mobile application, all these problems can be solved.

Nowadays, many users tend to use the system or application using mobile rather than desktop or laptop. Utilizing the Timetable & Space Management System through the desktop requires the user to have a proper space for the desktop and time to manage the timetable of the subject and class. Thus, an enhanced and hybrid application called MyTimeTable is proposed to enable the user to manage the system at the user's fingertips through the mobile application and flexible system that can be accessed from anywhere at any time.

To have the hybrid application of the system, we have proposed a hybrid application called iScheduler. This application targets the student and lecture as the main user for the system. All the login details will be retrieved from user email. Hence, both users must use the correct login details to access the system. The student can view the subject timetable that enrolled in the current semester. Moreover, they can also view the location of the class and the lecturer of the subject. Meanwhile, the lecturer can have full privilege to manage the timetable by adding the subject details and location of the class.

Both users will have a feature where the user will be notified by the system if the onward subject or other matter is getting near. Plus, they can read the information inside the system on the home screen. This application will be fully developed and deployed on smartphone devices that use Android and IOS as the operating system.

Problem Statement

Every person needs to manage their own time. Students and lecturers most need people to manage their own time because they always interact with others. There will be times where the lecturer and student miss their time because their own daily life has things to be done. As a student there will be a time where they forgot their own classes schedule. Old timetable design does not notice the student and lecturer with the upcoming classes. We have designed the application where it can notice the student classes on the smartphone. This will help the student to get noticed as the students and lecturer nowadays always use their phone to keep all the information and keep them on track on what they want to be done.

Motivation is a necessary element in our life. Motivation can lead our day towards a good start of our day. As a student and lecturer the first thing that we check in a day is our own timetable. Plain time table will lead to less attractiveness and less motivation. This will make our entire classes all day boring and will cause the difficulty to learn new things during the learning session. Every person has their own image that can motivate them. By using iScheduler, the student and lecturer can customize their own background image that can motivate them such as their parent's photos, motivation quote etc. We have decided to implement this feature because we could see many students have less motivation. This feature also can be used by lecturers.

Every new semester, certain student no matters local or international, they will faced a problem to manage their own time table in term of time and subject because some student they will not have the same subject even their were same batch or course. This problem also due to the full registration section and this will affect their another subject class session. Sometimes because of this, it will take and effect their study time because they still managing their schedule even the class have been start and the worst thing they were forced to drop the subject because of clashing time with another subject.

Sometimes because of the different schedule for each student, lecturer will have the difficulties to set the quiz or test for student. To set the quiz and test lecturer must find the time that all of the student were free, sometimes quiz and test will be held at night because of there's no free time of all the student at day time.

Goals

The goals of this project are as follows:

1. To motivate students to study due to attractive timetable
2. To ease students on managing their timetable.
3. To ease lecturers conducting tests and quizzes for students.
4. Develop a fully functional timetable application.

Objectives

The objectives of this project are as follows:

- Able to organize student and lecturer timetable
- Able to conduct test or quiz without hassle
- To enhance study motivation for student
- To make students well-informed on their upcoming subject

Outcome

1. Application

- a. Able to inform daily notifications on our timetable subject.
- b. Available functions such as calendars, datelines, timetable template customization, and reminders.
- c. User-friendly application with pleasing and motivative design to uplift student's spirit for studying.
- d. Multi-platform applications such as phones and websites.
- e. Cloud technology for storing data.

2. User

- a. Users can login with their email.
- b. Users create timetables for their class.
- c. Customize the timetable appearance according to their interest.
- d. Insert assignments/homework information and due date.
- e. Share their timetable information to other users.
- f. Edit, save and delete their data that they insert.

Needs, Approach, Benefits, Competitor (NABC)

Elements	Description
Needs	The need we are covering is to provide a pleasing and organized approach to timetable management. This can help students to organize their study lifestyle on managing their study time management. Our target audience will be students and lecturers.
Approach	For schedule management, we will provide a variety of timetable templates for students to customize their timetable. Besides that, students can put their own background motivating their study mood. The users also can insert and update their assignment or homework information and incoming due date.
Benefit	Students can manage their time well in daily life , students can turn on notification and get the reminder assignment and class. This app can gain motivation for studying. If they are following the apps well, they will easily handle the information table especially when the lecturer wants to know the student's free time.
Competitor	Our current competitor is the Class Up app. To make our application different from Classup, instead of only being able to monitor phone screen time we make it better interface and user friendly by allowing users to insert and update the homework and assignment dateline . The users also can turn on notifications to get a reminder.

Team Members and Roles

Name	Roles	Description
Mohd Anas Bin Adnan (B19EC0033)	1. Project Manager 2. Application Developer	- Manage the production of delivered requirements - Plan and monitor the project development - Prepare any follow-up action recommendations. - Does front-end and back-end developer for the system function. - Ensuring a normalised data structure for the application. - Help other teammates with interactive design. - Ensuring application is accessible web based and mobile based through cloud computing using Run Cloud.
Muhammad Amirul Fahmi Bin Noor Anim (B19EC0018)	1. UI/UX Designer 2. Application Developer	- Design the application layouts according to requirements. - Update the application. - Solve code problems. - Act as front-end and back-en developer for the system function. - Integrating data from various back-end services databases. - Ensuring accessible data using Run Cloud.
Nur Hasanah Binti Sariddon (B19EC0043)	1. UI/UX Designer 2. Application Developer	- Write well-designed, testable, efficient codes using software development. - Create layout and user interfaces using standard HTML/CSS/PHP codes. - Integrating data from various back-end

		services databases. - Ensuring accessible data using Run Cloud. - Act as front-end and back-en developer for the system function.
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