

Universiti Teknologi MARA

Mobile Attendance Tracking System (MobATS)

Focuses on Reporting and Lecturer Module

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ABSTRACT

In the existing system, lecturer use the method to take student attendance by giving an attendance sheet to student and a student would sign the paper day in and day out in every class. The attendance sheet can be easily misplaced by the lecturer. This makes it hard for the lecturer to make a report or manage the attendance for future observation. The module that is being highlighted is lecturers' website. The objective of developing the website is to provide a platform for the lecturer to manage the student's database including their classes and courses taken. The general objective of this project is to automate the entire system of students attendance registration via Access Point (AP) and student smartphone. In addition, this system can help the lecturers to manage and gain the full report from the lecturer's web page. In this website, the lecturer can view, update, delete and also generate report for the student attendance every month. The type of methodology we used for this projects is Rapid Application Development (RAD). This is the most suitable way of managing the projects in phases. We are going to develop a prototype of the projects and it will require a rapid developing phases. Phase by phase are being explained in this RAD to get the overview of the project. The result can become positive if all the procedure, method, timeline are been carefully followed one step at a time. This project can give many benefits for the student and lecturers in the future. Research has been made before, comparison and the different can be outlined so that it can be finish within the time given. At the end, with the project done it can be take to be implement in the university to aid lecturer or others so we can achieved better.

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CHAPTER 1

INTRODUCTION

1.1 Background of Study

The project **Mobile Attendance Tracking System (MobATS)** is developed exclusively for students to take their attendance and for the lecturer to get the summary report of students attendance from the system. It provides user-friendly and simple interface which can be used by both the students and lecturers.

1.2 Problem Statement

In the existing system, lecturer used method to take student attendance by giving an attendance sheet to student and a student would sign the paper day in and day out in every class. By using this method, most of students who are absent will cheat by asking their friends to help them to sign their attendance on their behalf. In addition, lecturers need to analyse and record the attendance list manually to know who were absent from class. If the attendance is sheet lost, the lecturers have to take attendance again and this will give the opportunity to students to forge their attendance. This would result in data being inaccurate.

In this chapter, the module that is being highlighted is lecturers' website. The website is used to view the student's database including their classes and courses taken.

1.3 Objectives

The general objective of this project is to automate the entire system of students attendance registration via Access Point (AP) and student smartphone. In addition, this system can help the lecturers to manage and gain the full report from the lecturer's web page. The main objective for this module is to provide a web-based graphical user interface (GUI) for the lecturer. This GUI is used to view the student attendance and also generate a report for the particular lecturer class that they are currently teaching. Besides, it will also help the lecturer to organize the attendance of their student in the class. This project is also to integrate three main aspects of networking that is web based, email and also wireless access point.

1.4 Project Scope

In order to achieve the objective of the project, several scopes have been outlined. The main scope of this project is to verify the regulation for attendance of