

# Project Plan

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## 1: Introduction

The goal of this project is to create a students attendance android app which can facilitate teachers to track student attendance rates, reducing the school's costs in tracking student attendance. The app will enable teachers to take attendance, and be able to store and analyze attendance data for each student.

## 2: Process Description

The process used is the waterfall approach, since we know requirements will not be changing in the future, therefore there will not be a need for iteration and extra features. The waterfall method has five phases: Requirements definition, system and software design, implementation and unit testing, integration and system testing, and operation and maintenance.

**Requirements Definition:** The requirements were already provided by the customer (the project idea document).

**System and software design:** The system was designed using block diagrams and UML diagrams to model the classes and how they will each interact with each other to create the application.

**Implementation and unit testing:** We have not reached this step yet, but we will be implementing the classes one-by-one, testing them as we go using unit test frameworks.

**Integration and system testing:** We will be doing integration testing when the classes are put together to create an attendance checking system, and testing the system as a whole using unit testing frameworks.

**Operation and maintenance:** After the functionality of the program is confirmed, the application will be shown to the customer to verify that all the requirements were met. The program will be maintained by finding and fixing all unexpected bugs that the customer may encounter while using the program.

### 3: Team

Team Member	Role
Josh	Project Manager
Khaled	Developer
Qingwen Fu	Developer
Yidong Wang	Quality assurance

Role	Description
Developer	Implement the code, conduct unit testing, conduct system and integration testing, fix bugs.
Project Manager	Lead group meetings, keep track of group progress, delegate tasks
Quality assurance	Ensure that there is no problem in product quality by establishing and maintaining a quality management system.

## 4: Project Timeline and Milestones

Project Timeline:

- Nov 16 - Nov 22: Create student attendance list and attendance marking functionality
- Nov 23 - Nov 27: Break
- Nov 28 - Dec 4: Store attendance sheets and add functionality to transfer sheets via email
- Dec 5 - Dec 11: Add functionality to view statistics and implement a UI
- Dec 12 - Dec 16: Final testing and debugging