# Software Requirement Specifications

for

# Proxyn’t

<Attendance app>

Version 2.0.0

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# 1.Introduction

## 1.1 Purpose

The purpose of this document is to present the detailed description about the attendance app.This document explains us about features of the software, the interfaces of the software, what the software will do and the constraints under which
it must operate.

## 1.2 Users and Reading Suggestions

- Teachers ,Professors or or any head of organisation Who wants to take attendance on mobile based application.

- Programmers who are interested in working on the project by further developing it or fix existing bugs.

## 1.3 Product Scope

- The product scope is very large.
- It is actually very difficult to take attendance for a large number of people simultaneously.
- This application/software makes this difficulty very easy. Actually saves a lot of time .

# 2.Overall Description

## 2.1 Product Perspective

This Attendance app software is developed for everyone who wants to save time in taking attendance.it actually works on some unique code which will be decided by the user(who wants to take attendance).

## 2.2 Types of Users

There are basically three types of users

- ❑ Who want to take attendance
- ❑ Who give attendance
- ❑ Developer or people who update software

## 2.3 Supporting Devices.

This software is basically used in android.

Not web based software also not for Windows, Mac OS or Linux

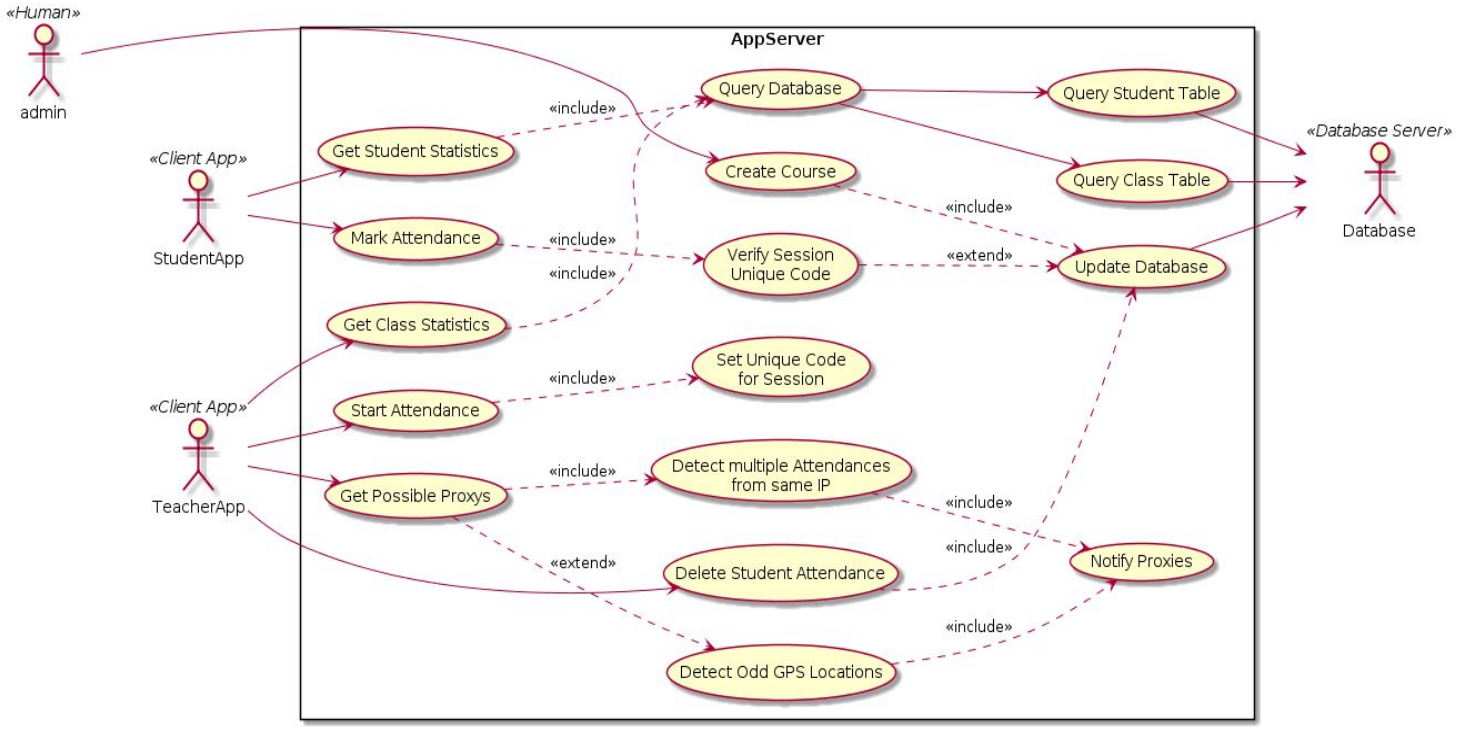
## 2.4 Functional Requirements .

| Name Of Function | Input | Output | Justification |
|---|---|---|---|
| login() | Username(), password(), Robot(). | Successful or unsuccessful | Used to make a registered user do his task |
| Registration() | Username(), password(), address(), email(); RollNo; | Successfully done or unsuccessful<br>Or already registered | For a new user a person must do registration to do respective task . |
| robot() | String<br><br>{Captcha} | ---------- | People may cheat by taking attendance using robot. Input string is captcha |
| Username() | String | ---------- | Name of the user |
| Password() | String | ---------- | Password of user. Must be private. |
| address() | String | ---------- | Address of the user |

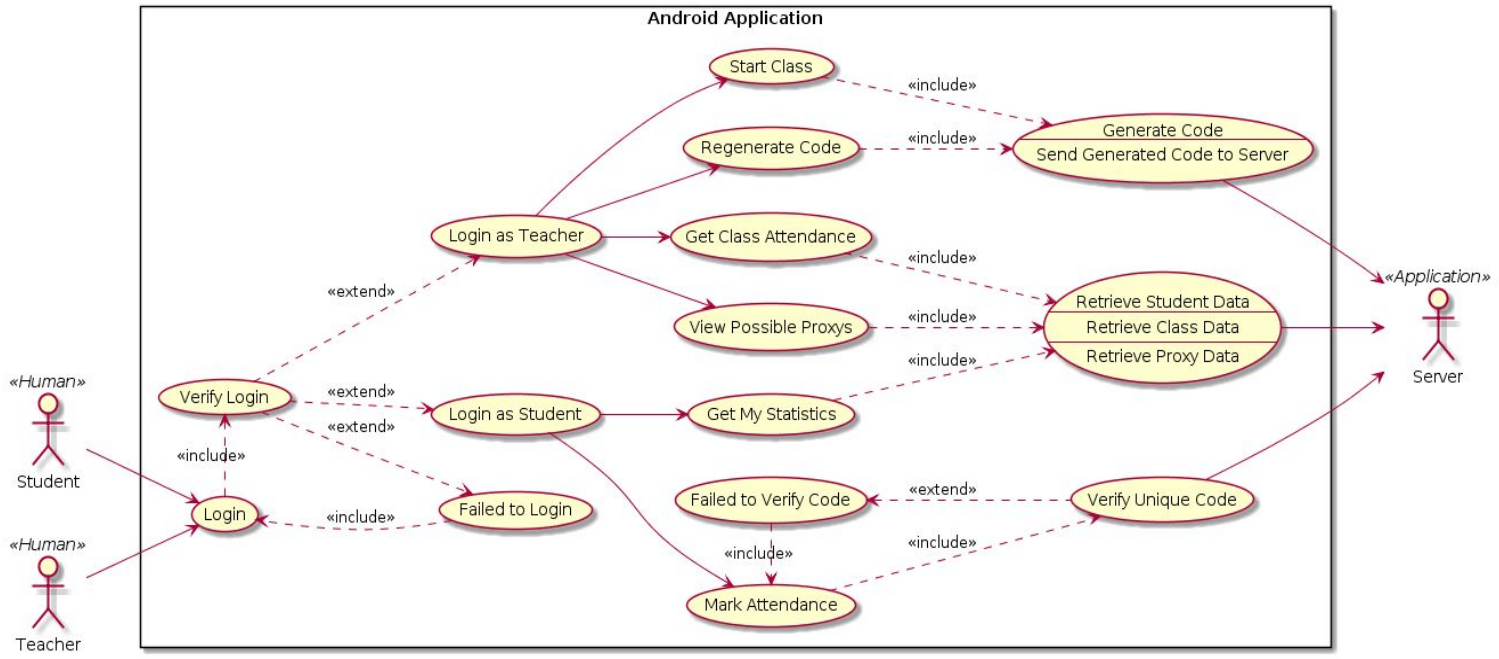
# 2.5 Use Case Diagrams

Since we can have one system in one rectangular box , the use case diagrams has been divided into two parts, namely the AppServer , which covers server side of the attendance app, and the Android Application,  the client side / interface of the attendance app. Each diagram has its own prospective users and use cases, this is a very efficient way to represent the functioning of the application .

Use Case diagram Server side :



Use Case diagram, application / interface side :



# 3.Non Functional Requirements

## 3.1 Performance Requirements

To run this software we need android with internet .Mac OS is not supported here. It needs 25 megabytes of RAM. This software can have upto 2000 users.

## 3.2 Security Requirements

Every user have their respective username and a private password which makes them keep their account safe.

## 3.3 Safety Requirements

We need to store the data of users, so we need to keep updating the software.There is a bug tracker available where users can report any bugs they have encountered so that the developers can fix it in the next release.

## 3.4 Software Quality attributes

Attendance app software is very easy to use. Language that we use here in interface is entirely natural language. This user interface is maken in very easy natural language and basic symbols.

Who are using this software should basically need to know how to login.

# 4. Hardware and Software Requirements

## 4.1 Hardware Requirements

- The application only runs on ANDROID devices.
- The device should have at least 500MB of RAM.
- The device should have an active Data Connection.
- The device should not be behind Network proxies or Firewalls.
- The device should have a screen size of at least 4 Inches.
- The app does not work on a wearable.
- The device should have GPS feature enable otherwise the attendance
  Marked will be reported and administrator takes care of it.
- The Server runs on Linux Machine with a relatively new Processor
  (newer than i3) and at least 4GB of RAM.
- The Server should have at least 15 GB of disk space to store and
  Secure the Database.

## 4.2 Software Requirements

- The app runs on the ANDROID Platform.
- The server runs on the UNIX platform.
- The app needs at least ANDROID JELLYBEAN.
- The server should support JDK 8.
- The server should support MySQL database server.
- The app runs on any device that is supported by the Android SDK for java.
- The server used MySQL JDBC Driver for its Database Management System.
- The server machine should run unix OS that can support multiple parallel
  Socket connections.
- The server should not block clients with firewall and proxy.

# 6. Pricing and Marketing

## 6.1 Marketing

- The app can be marketed as an essential time saver for both students
  and teachers alike.
- The app can be marketed as eco-friendly as it saves paper.
- The app can also be marketed as fool-proof attendance application as

Prevents people from marking false attendances.
- The app also handles attendance of multiple courses. So it can essentially be marketed as a complete attendance solution for any institution.

## 6.2 Pricing

- The app is available for FREE Download from GITHUB Releases page.
- The server can be used only if it was licensed by the developer.
- The server is priced at Rs. 1000 per Institution per 6 Months.
- The price can be further reduced if the client purchases a licence for a longer period.