A
PROJECT SYNOPSIS
ON
ANDROID ATTENDANCE
MANAGEMENT SYSTEM

SUBMITTED IN PARTIAL FULLFILLMENT FOR THE AWARD OF
THE DEGREE
BACHELOR OF COMPUTER SCIENCE AND ENGINEERING

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❖ <u>**Abstract**</u>

Student attendance management system deals with the maintenance of the student's attendance details. It generates the attendance of the student on basis of presence in class. It is maintained on the daily basis of their attendance. The staffs will be provided with the separate username & password to make the student's status. The staffs handling the particular subjects responsible to make the attendance for all students. Only if the student present on that particular period, then the attendance will be calculated. The students attendance reports based on weekly and consolidate will be generated.

❖ <u>**Definition**</u>

Attendance Management System is software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. The information is sorted by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student. Since ages, attendance system has remained one of the most important systems for evaluating the working time of students in any college or school. In short, this project is used to mark the number of days present/absent in any academic year of students in a college and school.

❖ <u>Purpose</u>

The purpose of developing attendance management system is to computerized the tradition way of taking attendance. Another purpose for developing this software is to generate the report automatically at the end of the session or in the between of the session.

❖ <u>Scope</u>

The scope of the project is the mobile on which the app is installed. The project is developed a
a mobile application, and it will work for a particular institute. But later on the project can be modified
in operate it online.

❖ <u>Overview</u>

Attendance Management System basically has two main modules for proper functioning: First module is admin which has right for creating space for new butch. Any entry of new faculty, Updating in subject if necessary, and sending notice. Second module is handled by the user which can be a faulty or an operator. User has a right of making daily attendance, generating report.

❖Problem Definition and Project Perspective

The mobile attendance system has been built to eliminate the time and effort wasted in taking attendances in schools and colleges. By maintaining the attendance manually, then efficient reports cannot be generated. It also greatly reduces the amount of paper resources needed in attendance data management. This is an android mobile app. It's built to be used for school/college faculty so that they may take student attendance on their phones. This system has a single entity namely, Teacher. Teacher can login using credentials. they can view the assigned course. Teacher need to select course for taking attendance. After selecting course teacher will get two sub category show attendance and take attendance. Attendance of students based on dates will be listed in show attendance.

❖ <u>Modules:</u>

The system comprises of major modules with their sub-modules as follows:

1.<u>Teacher</u>

- **Login:** Teacher can login using credentials.

- **Home:** list of Courses assigned to the teacher.

- **Show Attendance:** Attendance of students based on dates

- **Take Attendance:** Student names list and teacher will mark attendance and submit attendance

Project Lifecycle:

❖ Description

The waterfall Model is a linear sequential flow. In which progress is seen as flowing steadily downwards (like a waterfall) through the phases of software implementation. This means that any phase in the development process begins only if the previous phase is complete. The waterfall approach does not define the process to go back to the previous phase to handle changes in requirement. The waterfall approach is the earliest approach that was used for software development.

❖ <u>Android</u>

❖ Hardware Requirement:

1. <u>Laptop or PC</u>

- ➤ i3 Processor Based Computer or higher
- ➤ 1GB RAM
- ➤ 5 GB Hard Disk

2. <u>Android Phone or Tablet</u>

- ➤ 1.2 Quad core Processor or higher
- ➤ 1 GB RAM

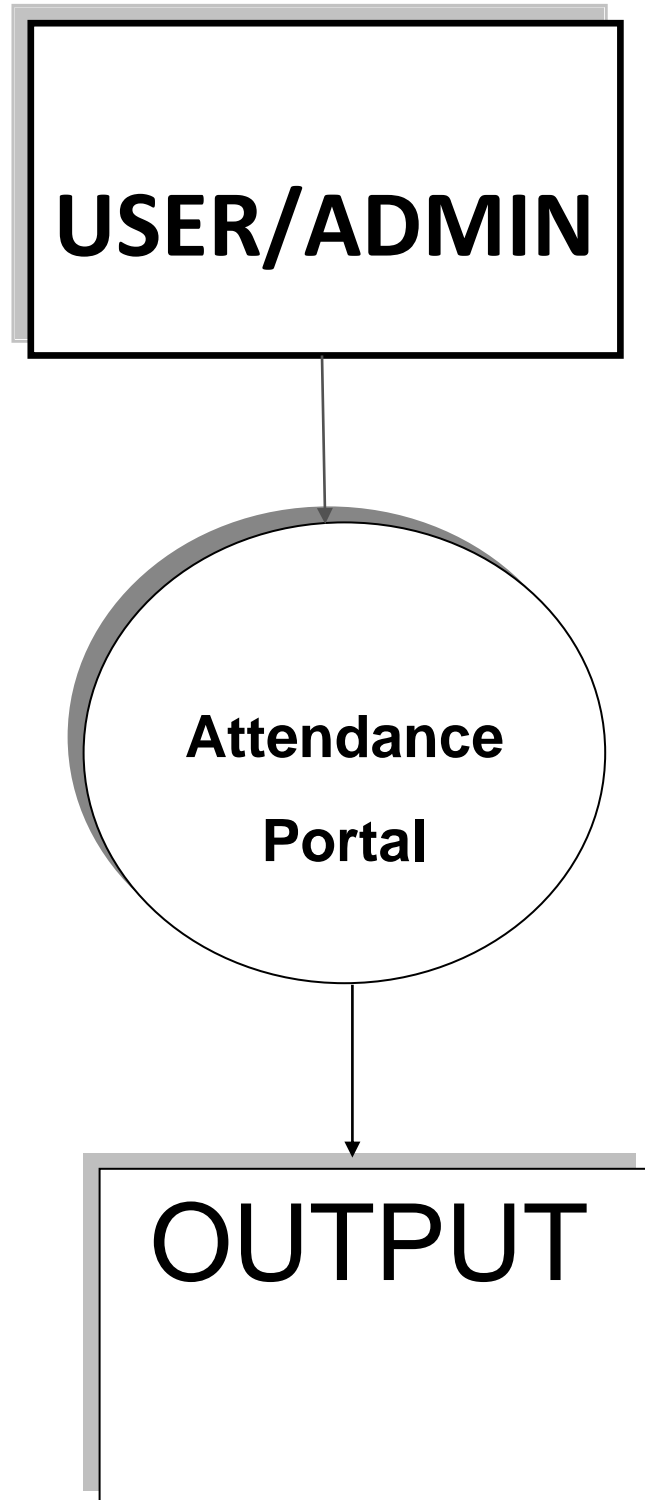# ❖ **Software Requirement:**

1. **Laptop or PC**

➢ Windows 7 or higher.

➢ Java

➢ Android Studio
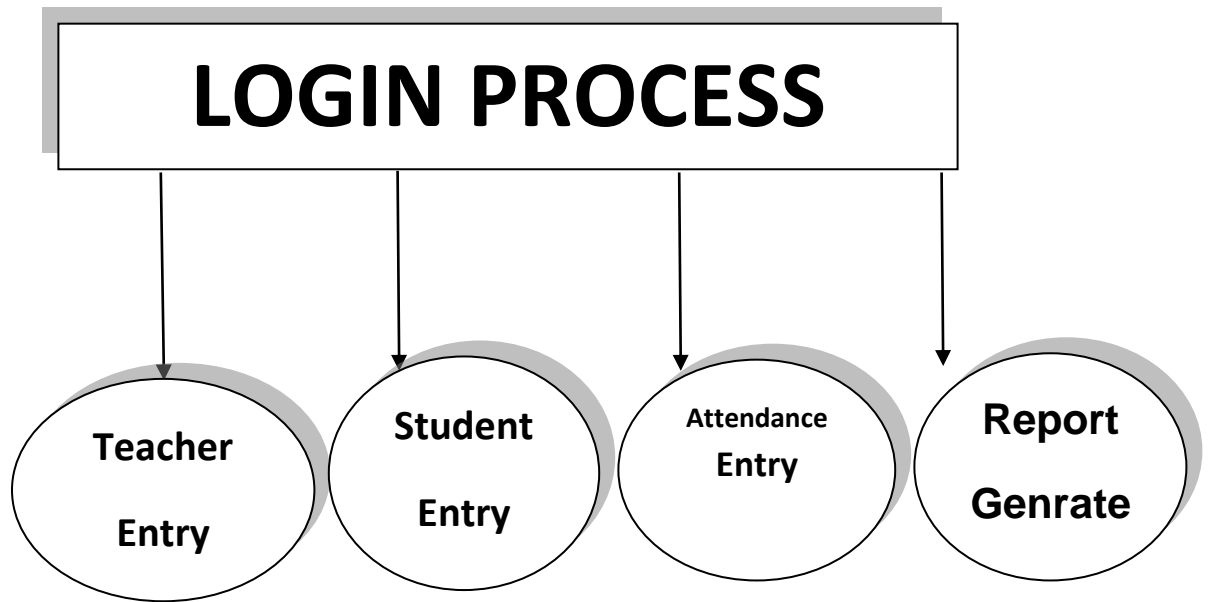
2. **Android Phone or Tablet**

➢ Android v5.0 or Higher

❖ **Design**

1.

```
┌─────────────────────────┐
│                         │
│      USER/ADMIN         │
│                         │
└─────────────────────────┘
             │
             ▼
       ┌───────────┐
       │ Attendance │
       │   Portal   │
       └───────────┘
             │
             ▼
┌─────────────────────────┐
│        OUTPUT           │
└─────────────────────────┘
```

2.

```
┌─────────────────────────────────────────────────┐
│                                                   │
│              LOGIN PROCESS                        │
│                                                   │
└─────────────────────────────────────────────────┘
```

Teacher Entry

Student Entry

Attendance Entry

Report Genrate

3.

Admin

Login Process

Login

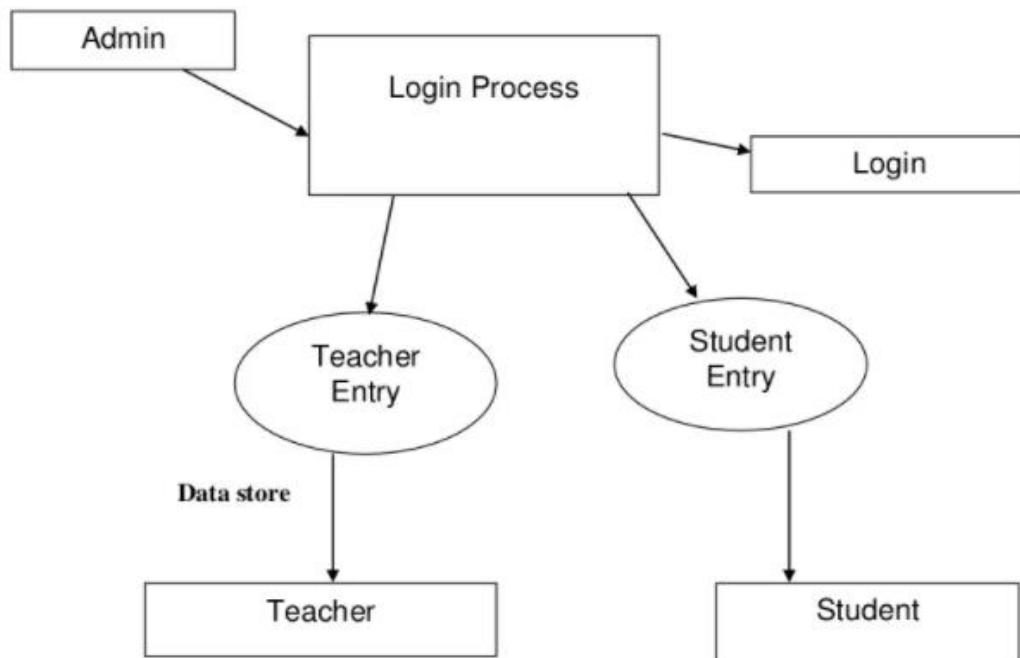Teacher Entry

Student Entry

Data store

Teacher

Student

❖ <u>Advantages</u>

- The system eliminates the use of paperwork needed for attendance marking and monitoring.

- The file can be transferred from mobile to computer or server via Bluetooth.

- This gives the overall performance of class in attendance.

- There is no need for laptop or computer in every class to run the system as the system is run on mobile so no need of extra efforts and resources.

- The app is easy to install and use.

❖ <u>**Limitation**</u>

- Data need to be entered properly otherwise; outcome may won't be accurate.

❖ <u>**Application**</u>

- This system can be used by the multiple peoples to get the counselling sessions online.

❖ <u>**Conclusion**</u>

The Attendance Management System is developed using Framework Android Studio and Java fully meets the objectives of the system which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem. It was intended to solve as requirement specification.

❖ <u>Scope For Future Development</u>

The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of database Space Manager ready and fully functional the client is now able to manage and hence nin the entire work in a much better, accurate and error free manner.

❖ <u>**References**</u>

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