



# Maintaining Log Book using Android App

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**Abstract:** In this research, we present an android app for maintaining Logbook for storing daily record of professors at department level. The proposed approach can be used to maintain the record of topics which the faculty covered and total number of lecture taken by professor on daily basis. Log book maintenance registers and other papers containing information of the department and college work are included in college records.. To maintain such record on daily basis we requires registers, so to overcome this issue we proposed a app based on log book maintenance for college at department level. This will keep all record of the number of students present at respective lecture of respective faculty and the topic which the respective faculty have taken lecture with date, All records will be stored in database. This will be an online app for the maintenance of log book for faculty members which will reduce there burden of maintaining logbook in registers manually.

A teacher's mobile phone can accompany him or her wherever he or she goes, including inside the classroom, allowing him or her to efficiently supervise a class. Mobile phones can now be used to improve student organisation, speed cooperation, and maximise technology portability. Recording, searching, reading, and updating a student's essential academic information will be faster, more convenient, and only a click away with the use of mobile phones.

**Keywords:** Log book maintenance, records, department, database, technology

## I. INTRODUCTION

Log book are used to record our daily activity from the very first thing. Log book is a book where every information is stored and maintained for future used. Log books are used in work place to keep track of important event. Logbook provides us with data in complete organized form. In colleges log book is used to maintaining record of student as well as other important data related to student and department. This project is the development of an android app that will serve as a log that will address the problem of maintaining log book. Register and record forms the core of any organization but in today's digital world we need to digitalize this into digital format .Log Book is digital way to record and keep track of all the necessary requirement. Logbook provide specific format for user to input data according to the feild specified in app.

Developments in information technology played a vital part in different fields of human life throughout the globalisation age, and mobile phones are the main actors in today's era. Mobile phones have recently been employed in teaching and research. As one of the primary sources of knowledge, the teacher ensures that the information they impart and handle is methodical and orderly. They must keep meticulous attendance records and monitor their pupils' academic progress, therefore excellent classroom management is essential.

Android is a Java-enabled opensource mobile operating system based on Linux. It is licenced as free and opensource software. According to the first quarter report for the year 2014, 900 million people use Android-based devices worldwide, accounting for 76.6 percent of the total smart phone market. In a real-world environment, such as a college campus, information is disseminated to students in the form of notices, handwritten manuals, and vocal messages. Today, it is critical to employ not only traditional forms of statement, but also new ones, such as cell phone technology, to facilitate faster and easier communication among students. The Android-based Mobile App was created to offer the HOD with information on the professors' daily lectures.

Android is the method of communication. People nowadays prefer to use an Android phone for their normal day-to-day tasks. Furthermore, during times of crisis, when people are forced to stay at home for longer periods of time, smartphones have become the primary source of entertainment, information, and communication, among other things. We devised and built an Android application called 'AGP Logbook' after considering the impact of Android technology on university students.



## II. LITERATURE SURVEY

In this project we are study large number of research paper for overcome the problem of maintain register.

“Development of a Personal Logbook Android Application”, John Byrens , Winter 15/01/2019, Its an android application for simple maintaining logbook of users daily life.

“Introduction to Android Application Development”, Annuzzi Jr, J.Darcey and Conder. 2016 Development,fifth edition , “Introduction to Android Application Development is a great resource for developers who want to understand Android app development and this paper highlights on the building of android app.

“Teachers Logbooks and professional Development:A Tool for Assessing Transformative Learning process.” Edwin Van Meerkerk, 2017, This article proposes and evaluates the use of logbooks as a methogological tool in qualitative research on learning processes.

“Developing Interactive Logbook: A Personal Learning Environment.” Tony Chan,Dan Corlett,Mike Sharples, Jeffrey Ting and Oliver Westmancott, 2005, The Interactive Logbook provides an integrated set of tools to support learning,including office,communications and web applications.

This section examines the research projects undertaken by various researchers that are relevant to the proposed project. In general, a mobile application is created in one of several languages, such as Java, with the help of a software development kit (SDK).

The data that is used or processed by the application is saved in the database.

This system is used to store, organise, find, and manage the information in the teachers' logbooks, as well as assist in the generation of day-to-day reports.

IK. Akhila and colleagues proposed an android-based mobile application for tracking student attendance. It provides reliability, saves time, and is simple to control and track attendance using Android phones. It has the potential to reduce the staff's efforts.

It's an effective and user-friendly Android mobile application for tracking attendance [3].

Rakhi Joshi and her colleagues created an android-based attendance management system that includes a smart learning mechanism. A SQL server is used to construct the web-based mobile application.

In which the technology uses a smart phone to track attendance and sends SMS notifications to students when their attendance falls below a certain threshold [2].

Amita Dhale and colleagues also presented a survey on "smart connect," an android and web-based tool for college management. SQL server is used to create it. It's mostly used to keep track of the information needed by the institutions [8].

Because applications for one MOS are incompatible with those for other MOS, the mobile operating system (MOS) plays an important role in the creation of mobile applications.

As a result, the MOS must be considered when building a mobile application for a specific application, and the application must be created accordingly. As a result, the Android MOS is used to construct student attendance tracking and monitoring systems. Akshay A. Kumbhar et al. demonstrated an android-based automatic attendance monitoring system. It is then utilised to ensure that the student attends class on a regular basis [9]. An android-based student activity register system was introduced by Jessenth Ebenezer et al. It is used to record attendance and store student information so that lecturers or higher officials can access it.

In addition, organisations use a mobile application-based attendance management system to track employee attendance. A mobile application for employee registration and mobile attendance was presented by S.P. Avinaash Ram and J. Albert Mayan. It is used to track and update staff attendance on a regular basis. Taking attendance is also beneficial to the workers and the authorities. This approach is also used to easily determine the number of employees and to keep track of whether they are regular employees. Every employee's information is likewise available through this system [4].

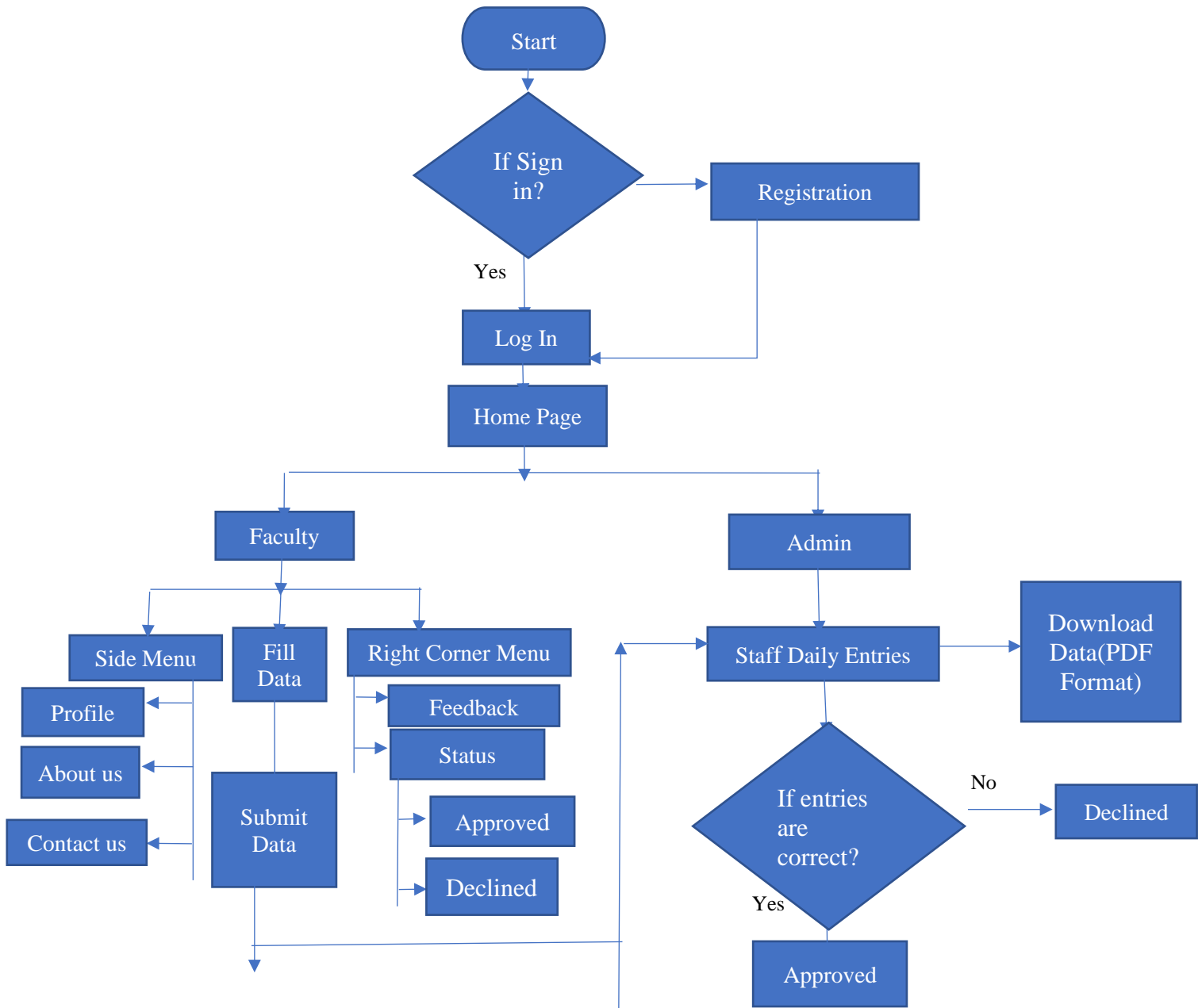
In addition to providing authentication, a location-based attendance management system is used in businesses. Mohammad Salah and colleagues demonstrated a mobile application for a location-based time and attendance system. This programme is intended to track employee attendance based on whether or not they are in the same area as the company. Android [5] was used to create this application.

For the attendance management system, wireless technologies such as Bluetooth and Wi-Fi are used in conjunction with a mobile application. Riya Lodha and her colleagues created a Bluetooth-enabled device-based attendance management system. This application uses Bluetooth technology to track attendance via wireless technologies. As a result, it cuts down on the time it takes to register attendance [6]. A framework for an android-based mobile attendance system was proposed by Freya. J. Vora. It makes use of Wi-Fi technologies to track attendance on Android phones. It allows you to keep track of and edit your attendance [10].

The mobile application-based maintenance logbook system plays a major role in the departmental staff, according to the literature review.Furthermore, the mobile application-based logbook system improves the quality of adding information of day-to-day work by allowing for easy access and analysis. This mobile application, on the other hand, is built on the MOS. This article provides a Java-based mobile application for the department's logbook and details maintenance system.



III. METHODOLOGY



1. **Sign in :-** To take some action to access a secured program to log in.
2. **Log in :-** the user id and password allows user and admin to log in.
3. **Registration :-** to make credentials for log in registration is compulsory.
4. **Home page :-** the homepage is the main page where the user can find there working related tabs or functions
5. **User App :-** user app of the home page contains the features likes
  - a. **Filling Data :-** User can fill their data and submit it.
  - b. **Side Menu :-** It contains the features likes
    - i. **Profile :-** This is the user profile contains the User name , Email Id and Branch.
    - ii. **About us :-** It shows the Information about this application.
    - iii. **Contact us :-** Uses for queries related about this application.
  - c. **Right corner Menu :-** It contains
    - i. **Feedback :-** The Feedback give by admin to resolve the data.
    - ii. **Status :-** contains the approval or deniel of the data by Admin.



6. **Admin App :-** on this admin application contains the entries of the staff submitted by them and this entries available for checking wheather the data is correct or not.

#### IV. CONCLUSION

This project will encounter the traditional way of maintaining log book for user record management and further offer a solution through the development of proposed system. The project provides for a new method for maintaining logbook in digital format. This will help in maintain all record in an android app without maintain logbook registers and without using pen and paper. This app will keep record of all details like name of faculty, total number of lectures, topic covered and date. In this paper the current problems is encountered of traditional approaches of class record management, and further offered a solution through the development of the proposed system. There was a large increase in logbook use observed without a reduction in the quality of logbook entries.

With the Android-Based Class Record System, mobility in recording professor attendances, taken lecture, date, time and how many student attained their lecture. The system simplified the process of taken lecture and handling their official work records. It further caters to the needs of the faculty for an efficient tool in managing lecture records, thus, providing an accurate source of own given lecture information. All of the usual processes and activities in maintaining a lecture record from input of data to output of information were adopted by the system.

The Android-Based attendance Record System may be considered as an alternative system for users who do not have a mobile phone as recommended; but one thing is for sure: this application will be a productive tool if used in a classroom setting.

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