



IJIRSET

International Journal of Innovative Research in
SCIENCE | ENGINEERING | TECHNOLOGY

e-ISSN: 2319-8753 | p-ISSN: 2320-6710



INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN SCIENCE | ENGINEERING | TECHNOLOGY

Volume 10, Issue 7, July 2021

ISSN INTERNATIONAL
STANDARD
SERIAL
NUMBER
INDIA

Impact Factor: 7.569



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Attendance Management System using Firebase

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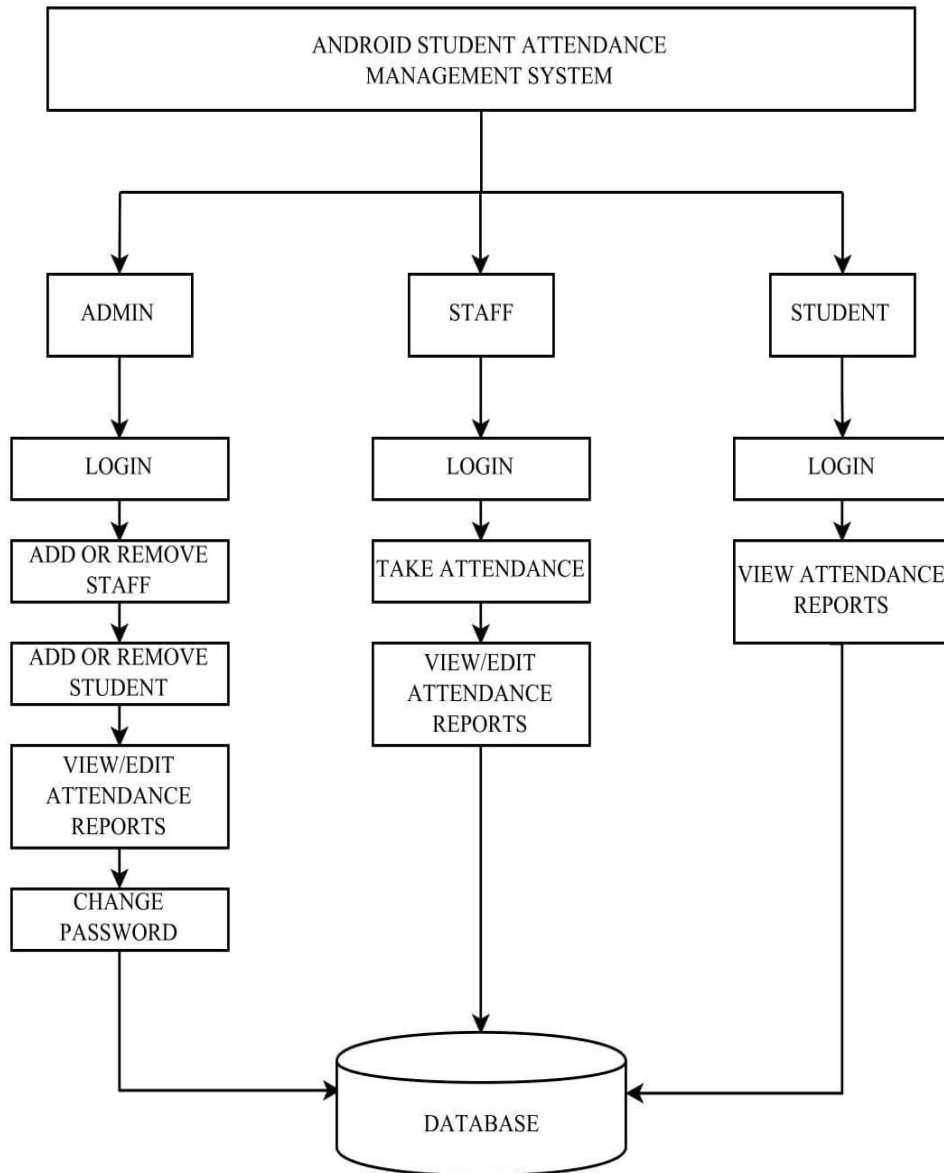
ABSTRACT: This project is entitled as “ATTENDANCE MANAGEMENT SYSTEM USING FIREBASE DATABASE” using ANDROID platform. The main objective of this project is to carry out some of the emerging technologies like mobile computing, Information and Communication Technology and advances in behavioural science studies to enhance and enriched the current educational system scenario, since the educational technology in India has been get modernizing in the recent past years due to the development and penetration of Information and Technology. The mobile based technology has been chosen for this study as well as for the project. The methodology of this work is to develop an android based mobile application attendance management system where attendance can be recorded via mobile devices using Google’s “FIREBASE” database, a real-time server. This application stores, retrieves and delivers the GUI based real time information about the student/staff such as present or absent through mobile device. This project is very useful for the educational organizations to keep, track and maintain the database of students.

KEYWORDS: –Android, Online system, Traditional management system.

I. OBJECTIVE

The aim of the project is to maintain the student and staff details. This application is developed for daily student/staff attendance in schools, colleges and institutes. It facilitates access to the attendance information of a student in a class. This system will also help in evaluating attendance eligibility criteria of a student by just a tap on the screen, the system will be able to produce the students attendance report thus reducing the need for manual labour which is prone to human errors and time consuming. This application is built for automating the processing of attendance. It also enhances the speed of performing attendance tasks easily. The student and staff have a unique user login id and password available. The student can only view the attendance record on a weekly, monthly, and whole semester basis. The staff can view as well as modify the attendance record. Interactive graphs and reports facilities will be available for faster visualization.

ARCHITECTURAL DESIGN:

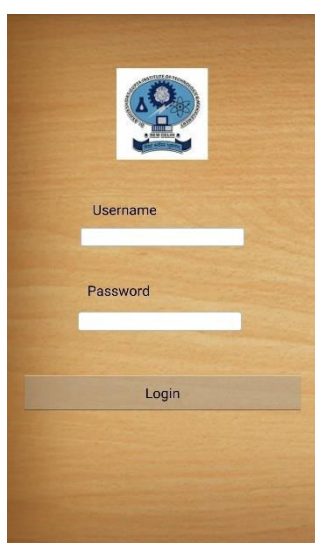




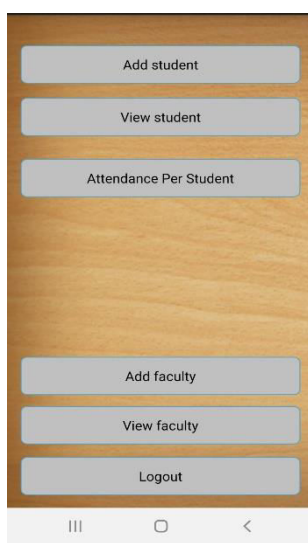
II. METHODOLOGY

- A. Software Requirement The essential software used in student management system are: ° Operating system: Android. ° Data base: Firebase. ° Language: Java, XML.
° Framework: Java Frame Work.
- B. Safety and Security Requirements The security requirements in student management system is: ° The program is very safe and protected. ° Every types of user has unique user id and password to access their account. ° Data security (Firebase). -Data recover, -Data protection.
- C. Workflow of Student Management System The workflow of student management system is described as follow:

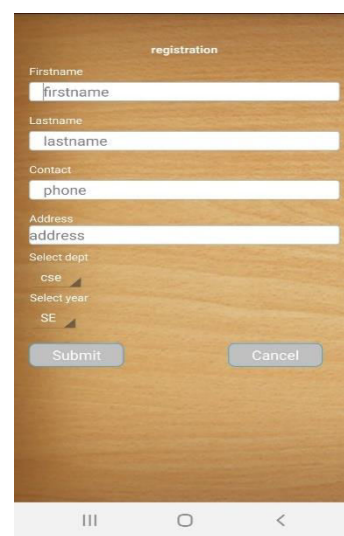
III. WORKING MODEL



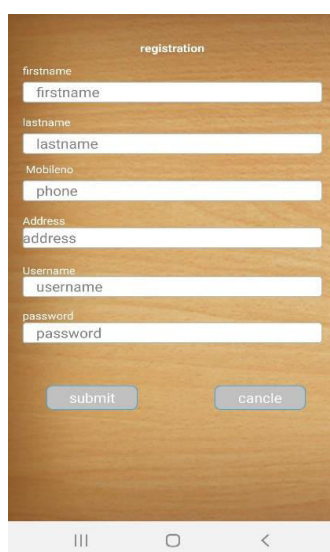
I. Login Page



II. Functions of App



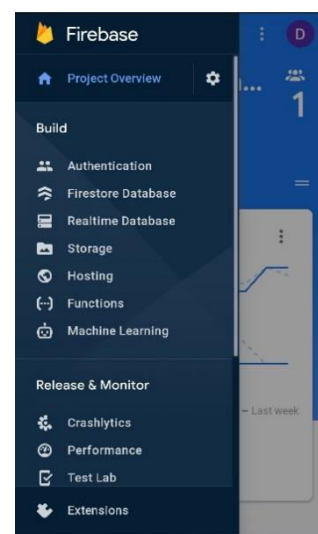
III. Add Student



IV. Add Faculty



V. View Student



VI. Firebase Features



IV. CONCLUSION

This whole work is to access the details about the student attendance information and generate a final report. This project “Android Student Attendance Management System” is a collection of static and dynamic web based or mobile application-based pages. This project provides an offer to the user to enter the data through their respective registration forms. It is very helpful for the teachers and admin to keep and maintain the information about the students easily. In future this work can be expanded to store the internal marks, semester marks, college events and college placement activities of the students to minimize all stuff at one place in a systematic way to import and export the data through the admin and authorized persons whenever it will be needed in future by the educational organization.

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