

E Chief Attendance: Digital Attendance Register

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Abstract –e Chief Attendance is a Mobile application which is used as a Digital Attendance Register. The application is developed using Android Studio and registered with the Google Firebase which extends the user's ability to access the Firebase Products like Analytics, Cloud Fire store, Performance Monitor or Remote Config. The System also has the significant feature of Automatic Mentor-Mentee Mapping. The application has an ability to generate the Absentee Report in exchangeable format . The Report can be sent through conventional ways like Short Message Service (SMS), eMail or it can be transferred using Trending Cross Platform Messaging Applications. The Absentee Report can also be generated using Bar Code or QR Code Scanning method. The successful institution begins by engaging the students and make sure that they will come regularly. This e Chief Attendance System provides a smarter way of taking attendance and managing entries in the class register digitally by simply using the Smart Phones. When compared to other traditional methods, the proposed system will generate the Absentee Report in much simpler, faster, cheaper and easily shareable format.

Key Words:Digital Attendance Register, Android Studio, Firebase, Mentor Mentee Mapping, Cross Platform Message

1. INTRODUCTION

The concept of taking Attendance is developed by mankind to track a person or a group of member's presence in a particular site for the pre-scheduled event. Checking the presence of a person is important for every institution to measure the effectiveness of their service delivery and help them to plan for the future events.

In any workspace or educational institution, the attendance is a compulsory process. Be it a school, college or any academic organizations the participation of the members should be regulated in such a way to monitor their presence in daily basis. Low attendance by a student in a class has a greater influence in the academics of that person. Poor attendance also helps in identifying the problems faced by the student in his carrier. It acts as a good indicator to understand the deficiencies in their Education. Thus, the Effective Management of the attendance plays a vital role in imparting the Knowledge and Skills needed for the students in their mere future.

The process of taking attendance has been evolved a number of times in this modern world. Formerly, the attendance was taken by using a register which is listed with enrolled member of any organization or institution. Then the invigilator or faculty will check for the physical presence of the enrolled member and mark the attendance.

In the next generation, the process was shifted from Pen paper mode to digital. Many online softwares made the process much easier. Now, it is much simpler by developing a personalized Mobile application for the attendance management with ability to access all the records and share the records with a single touch.

2. Objective

- The main purpose of the Application is to provide a way to register the Students Attendance through Mobile Application itself.
- The Application will generate the Absentee Report once the necessary values are provided.
- For the Authentication purpose separate login will be provided for Mentors and Students.
- To avoid unnecessary dilemma, the absentees are dynamically mapped with the corresponding mentors.
- Smart Provisions like Barcode or QR Code based Attendance monitoring is available.