

Smart Attendance System

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Abstract— A education system in India has been changing widely in last years due to the development of Technology. Smart classes, E- learning, video conferencing are some of them. The core idea of this paper is to implement some of the emerging Technologies like mobile computing and advances in behavioral science studies to make better educational system. For this we are implementing the software "Mobile Based Attendance System" on Android technology. Lecturer will login to the phone application and get connected to the server and take the attendance using smart phone. Lecturer can edit the attendance anywhere did not used to stick on the system. This reduces the chance of the fake attendance. Lecturers can send the sms to the students of their short attendance. This project will ease the workload of the Lecturers as it is more secure and less error-prone. It is easy to use and time saving.

Keywords: Android, Mobile Computing, Android SDK

I. INTRODUCTION

We have seen over the years that the process of manual attendance has been carried out across almost all educational institutions. The process is not only time consuming but also sometimes inefficient resulting in false marking of attendance. Today, we are not maintaining pen and paper-based attendance registers. Following this thought, we have proposed an mobile based attendance system based on Android Technology for attendance monitoring. The application will be installed on the user's smart phone. It intends to provide an interface to the teacher who will be require minimal details to input for marking of the attendance of particular class of students. Apart from that, the application would support strong user authentication and quick transmission of data of data via the web service. Another noticeable feature of the entire application would be that no data stored on user device in any form whatsoever. The application thus builds would also help to avoid the chance of proxy as application would be handled by the teacher only.

II. LITERATURE REVIEW

The purpose of developing attendance management system is to computerised the traditional 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. The design and implementation of system is to provide service in Institutes and colleges. The system is to provide comprehensive student information system and user interface to replace the current paper records. College staff uploads attendance through a secure online interface using Android devices .All data is thoroughly reviewed and validate on the server before actual record alteration occurs. The system plans for the student user interface, allowing student to access tips and tricks as provided by the seniors. All data is stored securely on SQL servers managed by the college administrator.

In this paper basic problem of the student attendance management is defined which is traditionally taken manually by faculty. One alternative to make student attendance system automatic is provided by the computer vision

In this paper with review the various computerized system which is being developed by using Different techniques. Based on the review a new approach for the student attendance recording and management is proposed to be used for various colleges and academic institutes .This mobile application will require connecting to the inter net through Wi-Fi technology .Lecturers will first have to sign up for this and then they can take the attendance they wish by first logging in with the help of a smart phone to the server .After attendance has been taken lecturer will send it over to server via GPRS. The lecturers can also enroll new students, delete information also and all the new students delete the information about a particular student or can modified the information etc.

III. METHODOLOGY

This project is developed by using Android studio and my SQL server. It is divided into two phases. In the very first phase, feasibility study is conducted, requirement analysis is carried out to understand the need for the system and the necessary modules, such as admin module, registration module, teacher modules. In the web-based module is for the admin panel to control It's all over activates like updating ,creation, deletion or any other database changes in the whole project by the admin and it's also contains a teachers registration phase on website only through which they can generate a user id and password to log in in the mobile based application which will be conducted through this admin panel server. On the other hand the mobile based application which will be totally used by the teacher to get logged in and by choosing their authorized register class id and the subject id they are able to display the digital register book on their smart mobiles on word and submitted finally by cross checking it to the made authorized provided admin server.

IV. MODULES DESCRIPTION

A. Admin Module

This module is used for the teachers to login for administrator ,it have whole rights to monitor and manage entire project through this module any new information can be easily inserted ,updated ,deleted or view.

B. Teacher Module

This module is used for the teachers to get register on the website in respect to generate user id and password through which they are able to login in the smart mobile based attendance application to display the digital register book and submit the final data to the authorised web server of the admin panel.

V. RESULT

In the following figures showing all the information. Figures shows the admin module and teacher module.



Fig. 1:

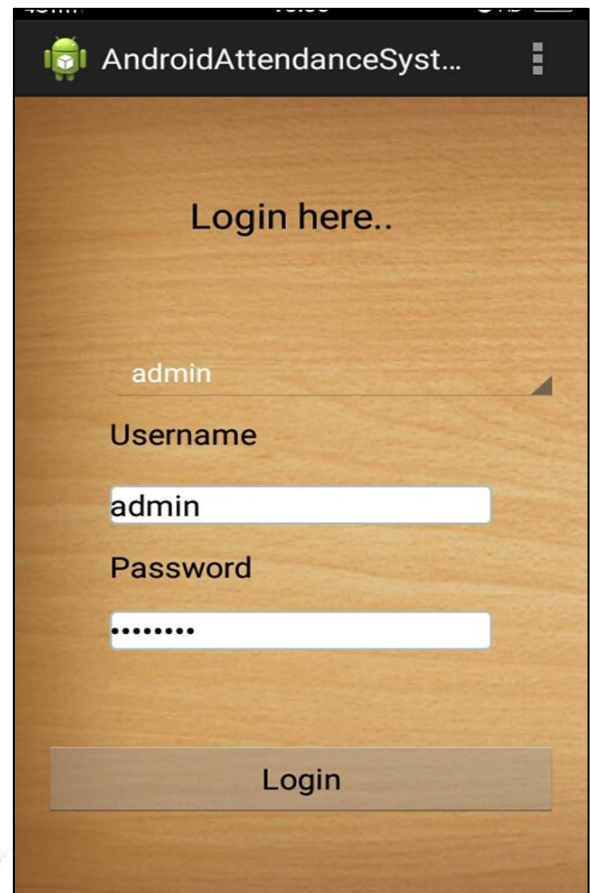


Fig. 3:

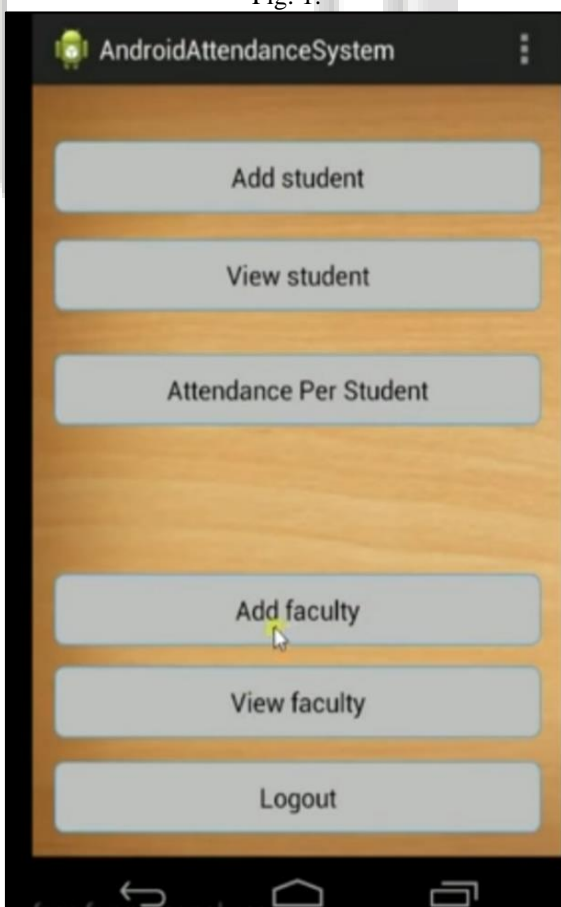


Fig. 2:

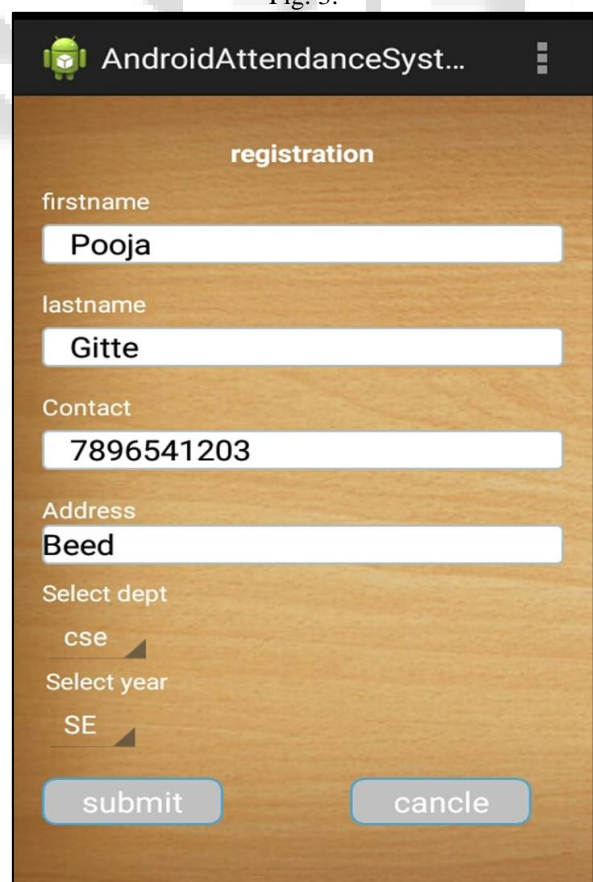


Fig. 4:



Fig. 5:

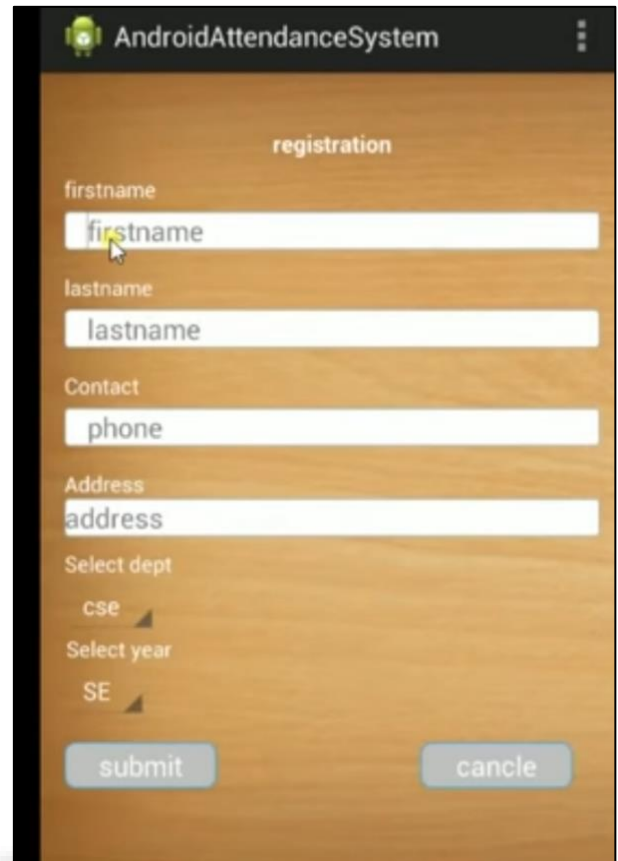


Fig. 7:

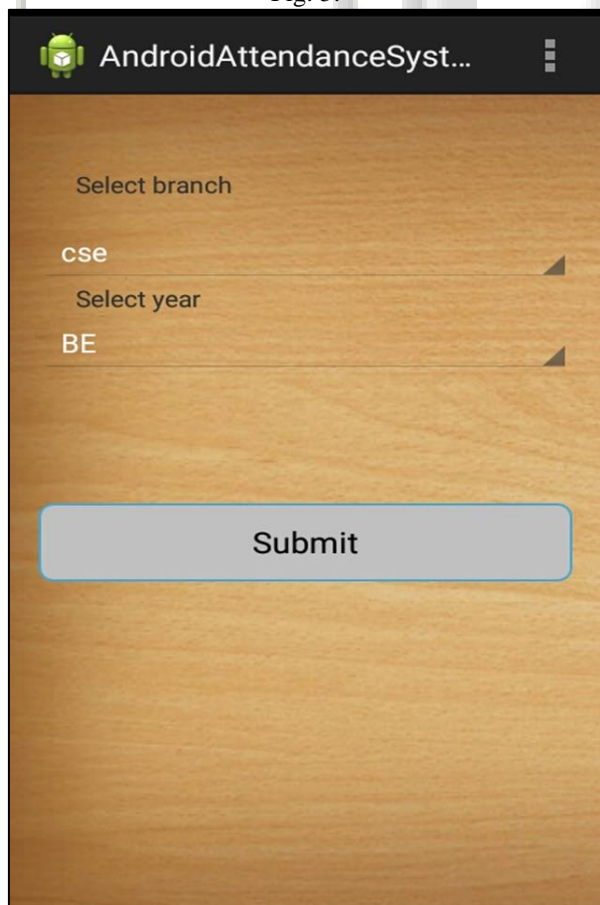


Fig. 6:



Fig. 8:

VI. CONCLUSION

The whole work is to access the details about the student attendance information and generate a final report. This project 'mobile based attendance 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 to keep and maintain the information about the student easily. In future this work can be expanded to store the internal marks, semester marks ,college events and college placement activities of the students get minimized all stuffs at one place in a systematic way to import and export the data through the admin and authorised persons whenever it will be needed in future by the educational organization.

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