Student Portal System Development Using an Android App

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ABSTRACT

A Students Information System Android Application (SIS) gives a straightforward interface to support of understudy data. It's intended to be utilized by instructive organizations or universities to keep up the records of students effectively. The day savvy, the board of precise and modern data in regard to a student's scholarly vocation is basically essential in the college just as schools. Students Information System framework manages all sort of student's subtleties, scholastic related reports, school subtleties. It tracks every one of the details of a student from the very beginning as far as possible of the course which can be utilized for all detailing reason following of participation will be accessible through a safe, android interface inserted in the school's site. It will also have faculty details, students' details in all aspects to the staff and students updated by the college administration since the technology is growing in a faster pace, this technology makes easy to evaluate student's academic reports.

Keywords: Android, Student Portal, MySQL, PHP, JSON, Database.

I. INTRODUCTION

A "Gateway", all in all, is named as a web framework that gives the capacities and highlights to validate and distinguish the clients [1]. They give the clients a simple, natural and customized interface (stage) for encouraging access to data and administrations that are of essential importance and interests to the clients. Clients suggest Students and Faculty. A Student Portal will be entry which thinks understudies as the fundamental target clients and gives such a large number of helpful administrations to understudies at a solitary spot.

Need for the System:
- Globally available
- Central place for all undertakings
- 24 Hour open
- User amicable
- Secure and Personalized
- Faster and Better Communication
- Saving of time and labor

II. BACKGROUND WORK

The accompanying portrayal represents the highlights of Android application and its application structure from the point of view of designers. A straightforward Student gateway application is given as occurrence to show the fundamental working procedures of Android application parts. This paper and its substance empower the users to give direction to understanding the task component of Android applications and to create applications on

Android stage like the entryway framework.

Student portal system is one of the important services that universities currently depend to check student information related to academics. This service is considered to be one of the knowledge-based management tools which requires less management oversight. Since technology is rapidly evolving day to day, vast information is being produced. This information should be categorized and scrutinized based on the requirements. We, adapt ourselves to the existing trend by gaining knowledge, learning science and contribute our work to the good and well of the society by sharing the experience and knowledge. Also, since the numbers of users who can access the internet is dramatically increasing in both underdeveloped and developing countries, there is a need to modernize the existing trend with the existing technology. Also, it is estimated that the number of mobile phone users is expected to pass the 5 billion mark by the end of 2019. Among all the learning institutions, Universities are more considered as they provide services of different types of specializations and sciences. It is required and recommended for every such institution to enable its students and lecturers of different sections to access scientific articles, research papers etc. This can be achieved by designing and implementing a system that is, an application which establishes an interface between students and lecturers. This application acts as a platform that connects students of a institution with the lecturers associated with the same institution. A sub University website called a student portal website is usually found existing for many universities. And since, a mobile phone is a handy device which is portable and easy to access, this proposed system, helps to develop an Android application for easy access of the student portal system. Some of the utilities provided by this system are: checking attendance and marks, registration and login of the students and many other things.

III. METHADOLOGY

A. Gather all the needed requirements:

Gathering the requirements is the first step in the application development. Since this application is a platform that unites both students and lecturers, the basic requirements of collecting data regarding attendance and marks ought to be taken into consideration before moving on to any further steps. Identifying the correct audience and gathering their requirements is the prime step.

B. Application Scope

Based on the above gathered requirements, deciding the guidelines properly and its scope and scenario of the application by dividing the application in to simple time-based iterative tasks by setting milestones for every phase. This method helps to visualize a complete view of the entire app development process and every minute thing can be taken care of.

C. Planning

This is the most vital advance in the application improvement process. Begin with picturing your application thought and after various sessions of conceptualizing and altogether investigate what factors are generally imperative. Additionally, amid the perspective, it is fundamental to choose the key highlights that you will incorporate into the application. After that emphasis on the User Interface plan, fine art and wire frames in light of the fact that the more you bode well on these components, the more it will act in the application building process and will make your application magnificent.

D. Quality Analysis:

Ensure that the application goes through thorough quality tests before being deployed online as it will play a major role in deciding the authenticity of the

application. Proper stage testing enables to find even the minutest of bugs and is thus helpful in correcting it.

IV. PROPOSED SYSTEM

The essential target is to structure a framework, that can robotize the current administrations hence, diminishes the overhead of overseeing paper reports for each declares and notification being made. The proposed framework will keep the data on a brought together server and this data can be gotten to by means of a cell phone through the introduced Android application. There'll be an enhanced database MySQL database on the server and through every interface gave to the customer i.e., SIS application, data can be gotten to utilizing a cell phone. This application focuses on arrangement of gathering of people and principally targets instructive organizations and Universities. This application can be utilized by understudies, instructors and executive. This proposed framework is partitioned into 3 very much characterized modules[2]:

A. Registration and Login:

Given that the client has downloaded the application, by then the client should very likely register through the application by giving the nuances required to enlistment. Starting from second year for instance third semester, it is required that client ought to select for the application toward the beginning of every semester. After enlistment the client can login into the system by giving the customer id and mystery key.

B. Student details:

It incorporates two elements of Personal subtleties and Academic subtleties. Individual subtleties of the understudies incorporate their name, telephone number and email address (understudies just as guardians contact subtleties) and so on. The instructors are required to enter the scholastic

subtleties of the understudy. Scholarly subtleties incorporate understudies CGPA.

C. Attendance

The attendance for each subject must be entered by the instructors or they can be entered by the executive who administers the whole framework. The framework can most likely create participation reports of individual understudy for each subject. These reports will be sent to the understudy intermittently. The educator can likewise see the participation record of understudies amid a specific interim of a week or month. In the event that the participation of the understudy falls beneath some predetermined edge esteem, a warning is produced to that understudy.
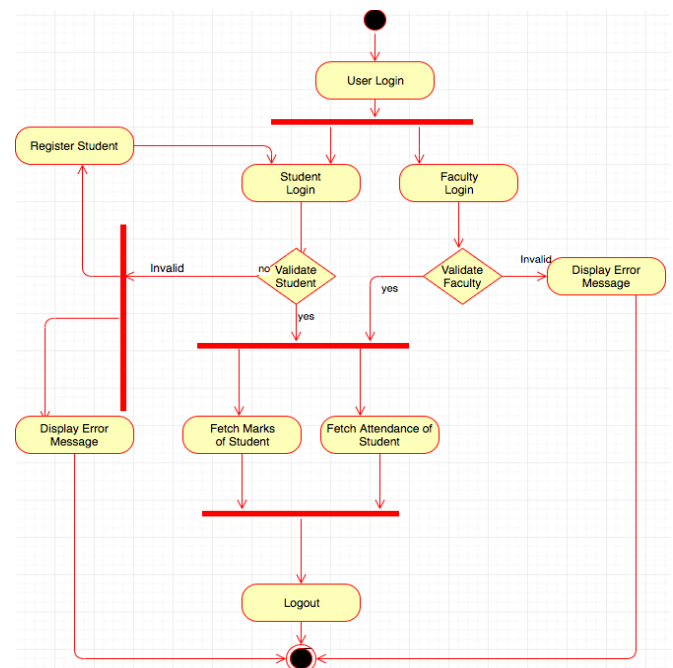
V. FLOW OF THE APPLICATION

Figure 1: Activity diagram[3] of Portal System[4]

VI. RESULTS

The Student Portal system is thus useful in bridging a platform between lecturers and students of the same institution. This Android application enables the users to easily access information regarding academic

details. Given below are the snapshots of the application interface. UI for student's registration and login, faculty login are shown below:
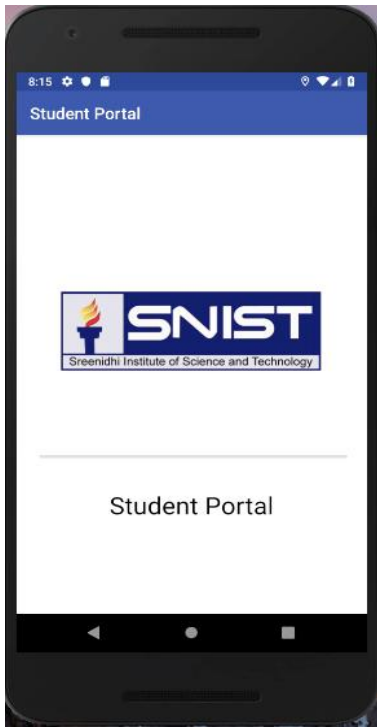

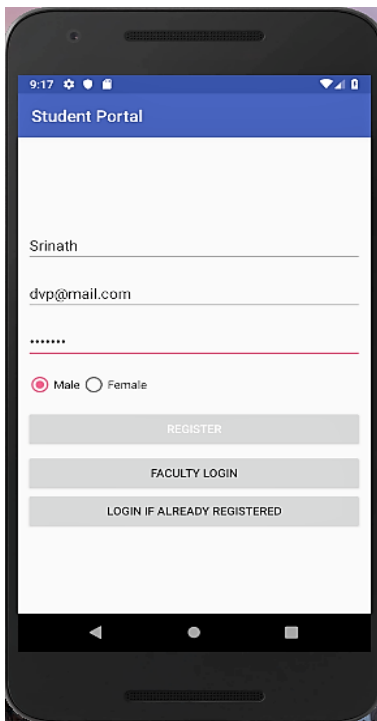**Figure 2:** Splash Screen of the application
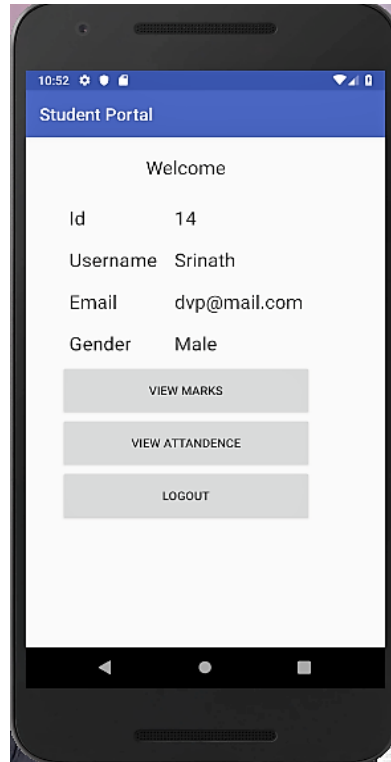

Figure 3: Student's registration and faculty login

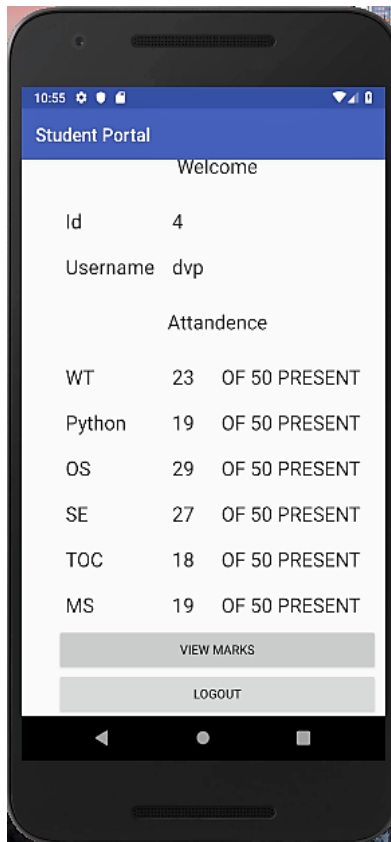**Figure 4:** Registration Successful
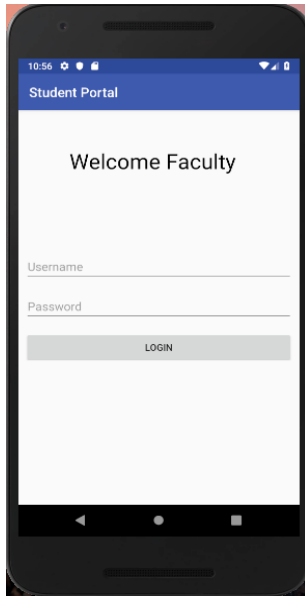

Figure 5: Details of the student

Figure 6: Faculty Login
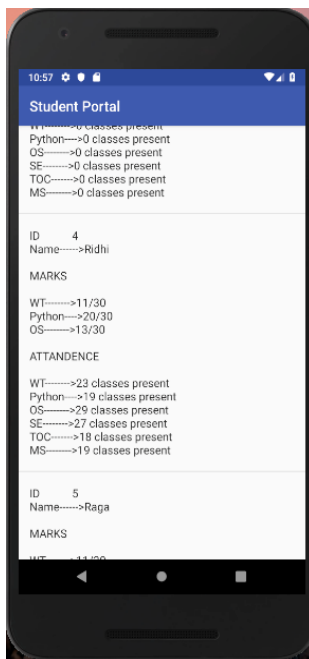
Figure 7: Academic details of students (Faculty view)

VII.   CONCLUSION

This paper assists with mechanizing the present manual structure. This is a paperless work. It might be watched and controlled remotely. It diminishes the work required. It gives exact information reliably. All years together gathered information can be saved and can be gotten to at whatever point. The data which is secured in the store helps in taking vigilant decisions by the organization. In this way, it is more intelligent to have an android application for understudy information the board. All of the accomplices, work force and the officials can get the required information promptly. This system is principal in the schools/lodgings and universities.

VIII.   ACKNOWLEDGEMENT

IX. REFERENCES

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