An Android Application For Smart College

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Abstract- *Ideally, all the work related to college management is done manually. The work includes preparing results of students on papers/sheets, maintaining list of Defaulter students on papers, providing notes i.e. the hardcopies to the students, providing results after each exam is finished and so on. Information is in the form of notice, hand-written manual, verbal message, is being spread among the students. So, the process of college management is tedious. This wastes the time of teachers as well as students in the process. Hence, in order to overcome this problem, a smart phone-based application using Android can be used to make this process easier as well as less time consuming. All these tasks are integrated in a single application which is "Smart College". The main purpose of this project is to add mobility and automation to the process of managing student information in an institute. The application will be used by HOD, Faculties and Students. HOD will be the admin and the admin will add the faculty and faculty will add the students. The users of the application are given privileges accordingly. The faculty and admin will have the privilege of uploading and posting notices and notes to the application whereas the students will be having only privilege of viewing the notices, downloading the documents of the notes, view their attendance , view their results after each exam is finished ,etc. Discussion forum is also provided in the application where students can interact with the faculty as well as admin. Thus, the application resolves the tedious process of college management process.*

Keywords- Android, Filtering, Interaction, Privilege, Dissemination.

I. INTRODUCTION

This venture is meant to mechanize the understudy the executives framework. This venture is grown basically to administrate the understudy records. The reason for the task qualified with respect to automate the Front Office Management of understudy records in universities, schools and instructing's, to foster programming which is easy to understand, basic, quick and financially savvy. Generally, it was done physically.

The primary capacity of the framework is to enlist and store understudy subtleties, recover and these subtleties as and when required, and furthermore to control these subtleties definitively.As we understudy deal with different issue identified with concentrate on material, reports in regards to sees, and so on Not many years prior, manual frameworks were utilized, which made putting away and recovering scholastic related data troublesome.

With the assistance of cutting-edge innovation, manual frameworks of instructive foundation like universities and organizations are expected to work on portable processing frameworks. And furthermore, PCs and cell phones are influencing our lives in more manners than we know about portable figuring framework. Assuming Students need fundamental data he/she checks or searches the data about sees, notes, and so forth It is hard to set up the manual work to store the data pretty much all understudies, educators and so on

In the present occupied world, Smart school application gives a quicker vehicle of correspondence by dispersing data in a brief time frame length, hence empowering each understudy just as staff to get to the data in a split second. Shrewd school application supports the android variant higher than 7.0(Nougat). It permits understudies just as staff to get to data whenever, anyplace.

It guarantees every single understudy can get notice by sending them a SMS on enlisted portable number. Data is transferred in this way decreasing work of physically showing sees on notice board. document are both functional and non-functional.

II. PURPOSE

The proposed programming item is the understudy Management framework. The framework will be utilized in any School, College and instructing foundation to get the data from the understudy and afterward putting away that information for future utilization.

The current framework being used is a paper-based framework. It is excessively sluggish and can't give update arrangements of understudies inside a sensible time period. The goals of the framework are to decrease over the long run pay and increment the usefulness. Necessities articulations in this record are both useful and non-practical.

The principle motivation behind this task is to add portability and robotization to the most common way of

overseeing manual work being done in an organization with the goal that the information which is passed to the understudies as reports is quicker dispersed through the application. It sums up all the data identified with scholastics. It basically spreads the Notes, Notices, Timetable, Exam subtleties, and so on It has a conversation Forum wherein understudies can associate with HOD and subject instructor. So this works on the collaboration among understudies and instructors.

III. EXISTING SYSTEMS

As of now Notices, results, Exam schedule or some other scholarly related data is either shown on notice board or verbally conveyed. However this strategy is straight forward and advantageous yet has a few downsides. This sort of strategy doesn't guarantee appropriate conveyance of messages to understudies. Gathering Xerox duplicates of notes and Question Banks or some other related paper is time just as cash devouring; in any event, dealing with those duplicates is in some cases extreme. We can't admittance to all the data whenever, anyplace according to want.

However ERP gives preferable method of getting to information over manual framework, it has cons as referenced previously. Each time client need to recall the id and secret phrase to sign in and access the information. Accordingly, existing frameworks has numerous disadvantages.

IV. PROPOSED SYSTEM

In this task, we had fostered an application which is completely solid and advantageous to utilize. Understudies especially login with their specific IDs (Enrollment numbers) and passwords which are given during confirmations. Brilliant school application utilizes PDAs of android platform.The level of advantage given to the administrator (HOD) is most noteworthy though advantage of understudies is Lowest. In this way, Delegation of Authority is carried out. The administrator will add the resources and the Faculties will add understudies. The administrator and resources can transfer and alter the information and offer to the understudies, yet understudies can just access (read) the information.

Application has different modules, for example,
1. Lectures Timetable
2. Examination
   2.1 Exam Timetable
   2.2 Result
3. Notes
4. Notices
5. Defaulter List
6. Reference Books
7. Forum

Workforce and administrator can transfer information in separate modules comparably Students can get to the information in particular modules. Each client can see their ID number in route cabinet. Understudies can clear their questions by asking their inquiries in discussion module and staff can address to the inquiries especially. Application utilizes distributed storage to store the information along these lines it tends to be gotten to from anyplace and whenever.

Table -1: Privilege of users

Privilege of users			
Users	Read	Write	Execute
Admin	YES	YES	YES
Faculty	YES	YES	YES
Students	YES	NO	NO

V. SYSTEM ARCHITECTURE

The overall system design consists of following modules:

- Admin module: The administrator (HOD) can login into the application with his specific ID and secret key and the application will validate the id and secret key. Administrator has following provisions like adding resources (new ID), he can give the notes and notification to the understudies or educators, seeing the defaulter list. HOD can likewise talk about the appropriate responses with the understudies in conversation discussion.

- Faculty module: Same as administrator module, first workforce will login to the application and it will be confirm the id and secret phrase. The module is intended for staff, which utilizes the application for transferring addresses plan, transferring tests schedule and results and transferring notes and notification with respect to anything. Likewise, the staff will respond to the understudy's inquiries in the conversation discussion.

- Student module: The understudy will login o the application with his specific ID which is as Enrollment number and secret phrase which is given by the office. Here, understudies can get to their normal plans, access notes and can download it, access sees in regards to anything like grants, occasions, exercises, and so forth.

- Lectures Timetable module: Faculties will show or transfer the plan to the application and understudies can see their ordinary schedule which is transferred by the staff.
- Examination module: Under that there are two submodules which are:
- Test plan - where the understudies can see their test schedule
- Result - where test results can be gotten to.
- Notes module: In this module, notes which are ready by various staffs and transferred by them, can be gotten toand downloaded.
- Database module: All the information of android application are put away in the common data set. The data set is put away on the cloud.
- Discussion Forum Module: The module is a component where understudies and educators can talk about the inquiries from the understudies. The understudies can advance their inquiries here. This conversation works on the collaboration among understudies and instructors. In this conversation discussion, the particular subject instructors react to understudy questions.
- Notices module: Various notification will be accessed by the students.
- Reference Books module: Here, various references books which are on various subjects are accommodated the understudies as it were. This module is accessible just for understudies.

VI. SCOPE

The application can be consolidated with more components like it can executed to every one of the accessible offices in school. It can likewise be made to rum on IOS also. It very well may be made to help the "Live" showing office, so missing understudies can proceed with their learning independent to the issues. "Online attendence" office can be added which can decrease the desk work.
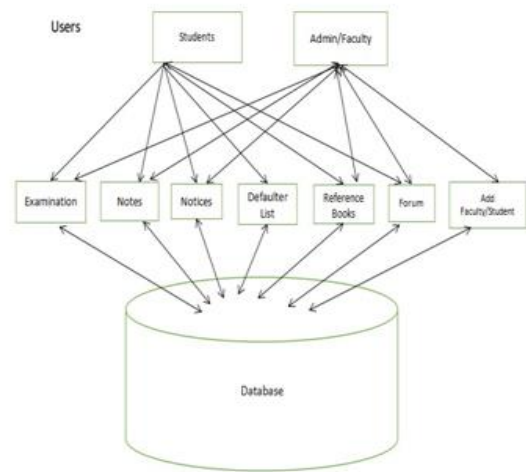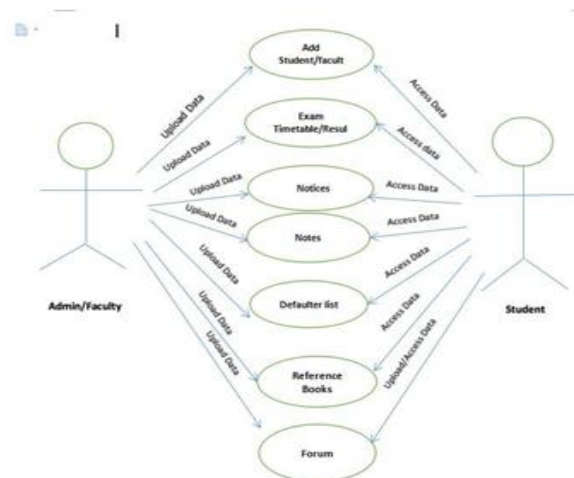

Fig -1: System Architecture

Fig -2: Use Case diagram

Fig -3: Home page
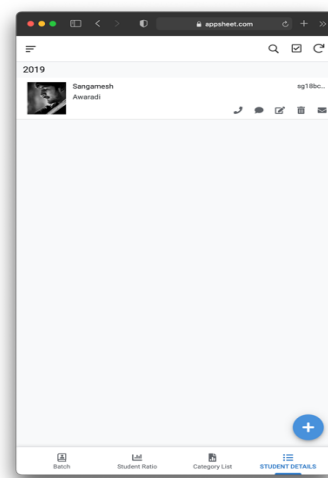
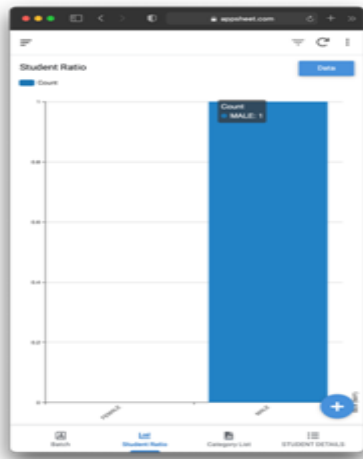Home Page: We can see the list of students and add the students Details

Fig -4: User interface

User Interface: In this module where all the interaction is done where

VII. CONCLUSION

Keen College application offers unwavering quality, saves time and is easy to understand. It very well may be utilized as a base for making and upgrading applications for review results, following participation for universities. Understudies and their folks will likewise see results, participation and educational plan subtleties utilizing this application. Likewise understudies can see subtleties, notices anyplace and whenever. The application will incredibly streamline and accelerate the outcome arrangement and the board interaction. It gives high security and a framework that diminishes the work and assets needed in customary interaction. The proposed framework gives the better approach for processing and showing an activity with responsive and alluring user interface.

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