CAMPUS SUITE

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Abstract - *This paper is aimed at developing an Application on College services that is important to an educational institution. This application can be accessed throughout the institution. This application can be used for uploading notices, Time-Tables, Railway-Concession and other services for the department and students. Students as well as staffs logging in may also access or can be given credentials based on the role. Notices of the Department and principal regarding placements or any particular events will be updated by admin panel. This application is being developed for an engineering college to maintain and facilitate easy access to information and services. For this the users must be registered with the College Email-id after which they can access as well as modify data as per the permissions given to them. For a given student or teacher can access the system to either upload or view some information or services .The main aim of this project is to save time and efforts of the Departments for uploading notices regarding placements or any other events and also updating timetable on a daily basis.*

Key Words: *Uploading notices, Time-Tables, Railway-Concession print.*

1. INTRODUCTION

The title of the project is "CAMPUS SUITE". Campus Suite is defined as an application based on providing services that aims to all the levels of management providing information and services within an organization. For a given student/staff (Technical / Non-technical) the user requires official college email-id, using this student/ staff (Technical / Non-technical) can access the system to either upload or view some information from the database. The front-end will contain pages for client side validation with Script whereas all the logics will be in Node.js at middle layer and third layer of database will be interacted with these layers, which would be Cloud based database. The project is divided into various modules and each module can be developed individual. The First module is log-in and validation where user is required to enter appropriate email-id which is officially provided by the college and after this, for the confirmation of the genuine user an OTP needs to be enter which has been sent to the respective email. Once, the validation is done now the user needs to upload all the necessary details which is required for further proceeding. Now, the next module is Time-Table where user can enter their respective batch and department to view the time-table. Another module is Railway-Concession where user can enter the source and destination and it will get uploaded in the database for admin to approve it. After this module there is Notice module where user will be notified by principal and department regarding placements or any particular event. The next module is Admin panel where only authorize people can upload various notices and can have access to the information of each users.

2. Drawback of Existing Systems

In the existing system, a website is being used throughout the organization to provide various services to the user and to view some information. The website which is being used by several students and departments doesn't provide interactive user interface which makes it inconvenient for people to use it. Another drawback is when students apply for railway concession and it takes a lot of time by faculty to approve it. So, here system is not fully automated and faculty needs to write down all the details on their own for each student. This existing application is not well supported on mobile phones also it is lacking user experience.

3. PROPOSED SYSTEM

System Overview Proposed system presents an automated mobile application with rich user interface with keeping user experience journey in mind. This application is developed for students to access all the services conveniently. This application maintains the security of each student as this application only allows college authorized email ids of each user followed by one-time-password (OTP) sent to their email ids. There is an admin panel where authorized people can upload notices and important updates whenever necessary. The railway concession module is fully automated where faculties can directly print the requested form and approve it. This system is easy to use for both student and faculty member and easily understandable to everyone. Proposed System aims to minimize inconvenience for students and faculties by reducing unnecessary process to achieve improvement in providing better experience. Thus proposed system is expected to overcome the disadvantage of existing system.

3.1. Login Module

In the login module, the faculty or student will get authenticate by college email Address. In this, the faculty or student will enter his/her college email address in which they will receive OTP then they have to enter this OTP to login page and they will be redirected to page were student have to enter their basic details like Name ,Roll no ,Department etc. If the student is already register than they don't have to enter their basic details again and again.

3.2. Time-Table Module

This this the first & very basic service were student will get information about their Time Table according to their Batch wise, This Time Table can modified only by admin.

3.3. Railway-Concession Module

Railway Concession is our main module in which student can apply for Railway Concession through our Campus Suite application. In this they just have to enter Source, Destination & Time period that they want the Pass and remaining details like Name, Roll no, Department etc. will be fetched from their Basic details automatically once after Successful submission this request will be received by department/admin who handle this service. After verifying all details the concession will be printed on given sheet of paper and student will get push notification for collecting there railway concession from there respective Department.

3.4. Notice Module

In Notice Module the department HOD, Teachers &Principle can send or post the notice regarding any events or exam cell or any announcement from Placement cell.
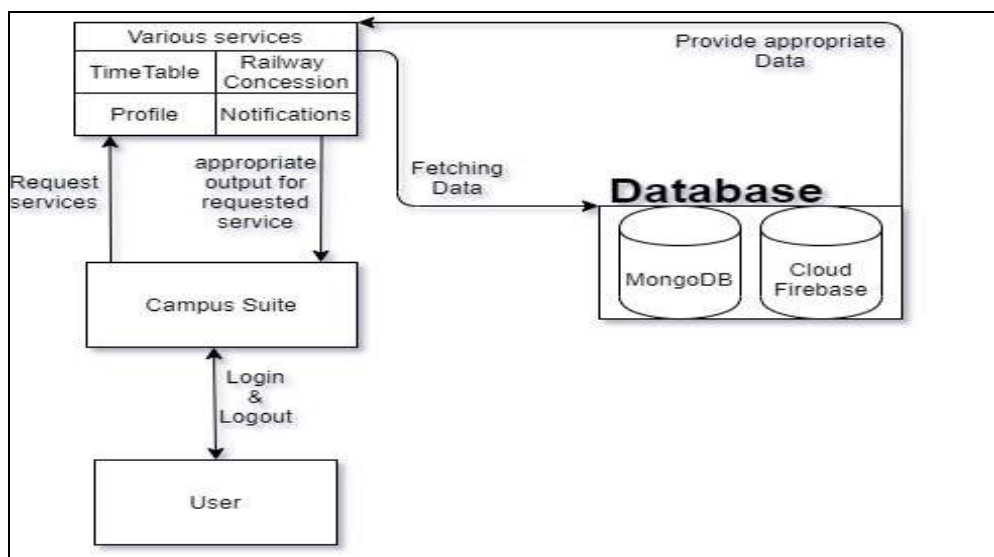
Block Diagram:

Figure 1: Block Diagram for Campus Suite

Initially, In Campus suite user login through Application via his/her college email id then on this provided email they will receive an OTP which they have to enter, if the OTP is correct than they will get access to various services in this we have used 2 types for database for improve response time . The first database used is MONGODB in this all user related data is stored and Second database is Firebase Which is stored over cloud for send push notification to user device.
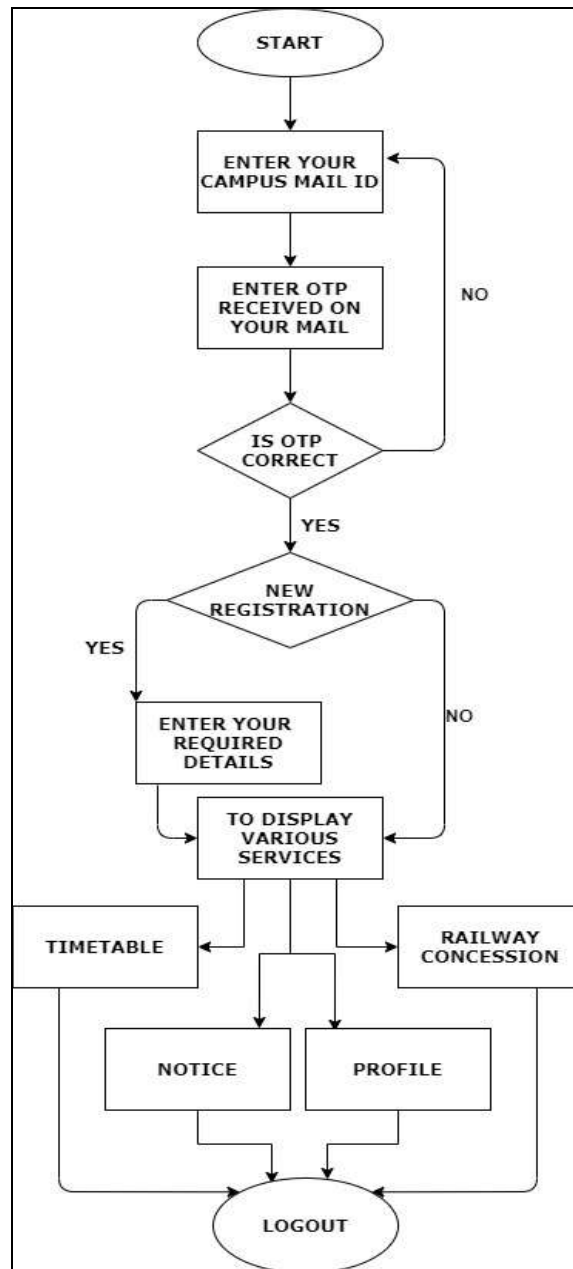
Flowchart:

Figure 2: Flowchart for Campus suite

Step1: Open Application and enter your campus mail id.

Step2: Enter OTP received on campus mail id.

Step3: Enter required details like Roll no, Batch, Name and Department for new registration only.

Step4: To Display Various Services that can be used by student Like Timetable, Railway Concession, Notices And student Profile.

Step5: Logout

4. RESULT AND ANALYSIS

The main purpose of this application is to provide information or services seamlessly without any interruption. This application will help college departments to provide direct access to the student of railway concession dashboard, this will help to prevent unnecessary chaos in the process of railway concession as well as in the system.

5. CONCLUSION

In this paper, we have discussed about our project CAMPUS SUITE purpose and its real-life application. This application will help the departments by reducing their time to type and write everything manually, also their efforts. Most of the necessary services are covered, if required, new services will get implemented in future.

ACKNOWLEDGEMENT

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