

Faculty Management System

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ABSTRACT

The paper is about to introduce the environment for faculties to handle their work and maintain record easily instead of making a lot of paper work. This can be achieved by mobile application. There are many other ways of handling this problem but not that much easy as the mobile application. Mobile application provides the platform for the faculties to overcome such issues and complex work. This mobile application is platform independent workspace for faculties so that they can access or use it with ease from no location dependency. It supports all types of platforms like android, iOS, windows etc. Providing a mobile application is again a huge achievement so that faculties can take a view to their work while they are on move.

Effective and efficient way of managing all the stuff can be done easily. Faculties can easily interact with the students directly so that each time there is no need to inform each student. Better secure transfer of the all information provided using latest technologies. Updating, Inserting, and all the operations can be done easily and efficiently. This application will be most useful in future so that reducing paper work will affect the time as well as the environment.

Keyword: - Worklight, Android, .

Introduction

The idea of the application is to allow the faculty to interact and communicate with the students with ease. This can be done by means of using the internet connectivity for each and every student. Thus the application can help the faculty to manage and maintain the record digitally. All information fetched from the database server and maintained by administrator. The applications have two sections the login of Faculty and login of the Students. When the faculty login to the smartphone application then data fetches from the database and on faculty interface, similarly when student login then the data show to students also.

This application can provide the various sections like, Attendance, Daily conduction, Fort night report and other activities of the student. Other interactive information can be added to the application like news regarding college as well as outer world, Notice during working hours for various activities.

Students section fetches the daily conduction of the lectures, so that if someone bunk a strict action can be taken. Attendance maintained strictly and record can be kept in database. Students can also ask for help regarding the lecture topic for each subject. This application plays an important role for every student as well as faculties that reduces the workload for both. Maintenance as well as records can be maintained easily and correctly.

Literature Survey

As mentioned in the paper “Web Based Student Information Management System” by S.R.Bharamagoudar, Geeta R.B., S.G.Totad (International Journal of Advanced Research in Computer and Communication Engineering Vol. 2, Issue 6, June 2013) provides the system using the web based technology, but it requires the high speed internet connection which is a further disadvantage of it. Instead of using the application provides the stand alone environment so that can be easy to use on the slow internet connection also. To overcome such disadvantage we use the application based platform which can be easily operated using the smart devices as smartphones, ipad, tabs etc. Input is given by the faculties directly by using in the mobile application interface. It can be easily modified using the teachers and the students. If any requirement of the students or feedback can also be taken using the application by individual student. It will also be easy for the teachers to take the daily attendance as well as the results of the students. The teaching plan is maintained and can be reported to the HOD of the department.

The Paper basically provides the platform for the teachers so that they can have ease of their work as well as reducing the paper work will help to save the environment. This application stated also provides standalone application platform to provide the various notices as well the student details for the faculties. The application can be very useful not only in the field of education but it can be also used in the industry as well. Employers can send easily message and interact with their employee instead of circulating the paper notice to everyone. This application provides a huge help to both each and every field.

What happens exactly in the earlier system uses the man to man working strategy as well as the notices or the information needs to be use of paper. This leads to didn't ensure that the information will exactly provide to each person in the system. Updating the information need to use the new paper each time and again circulate that among the students which is quite tricky. Instead of using such, we can use the application which can be easily updated and the notification received by students.

Making the efficient login for faculties and the HOD of the department as well as the responsible person like principle, or the employer if used in the industries. Different login can provide a various privileges to everyone. From the above literature survey we can easily concluded that the application is very useful for the faculties. It reduces a lot of paper work and a huge multitasking making use of single application. This application make a very useful development in every field is used effectively.

Problem Definition

The system define how now a days faculty deals with the papers and all the management regarding issue of making and maintaining the all documents and records related the students and their daily conductance. It helps to make sure that paper work should be reduce to the smart work using the remote mobile application.

Proposed System

IBM Worklight provides an open, comprehensive and advanced mobile application platform for smartphones and tablets, helping organizations of all sizes to efficiently develop, connect, run and manage HTML5, hybrid and native applications. Leveraging standards-based technologies and tools, the platform ships with a comprehensive development environment, mobile-optimized middleware, and an integrated management, and analytics console, supported by a variety of security mechanisms.

IBM Worklight enables the creation of rich, cross-platform apps without the use of code translation, proprietary interpreters or unpopular scripting languages, while reducing the time to market, cost and complexity of development and enabling a better user experiences across a variety of mobile devices.

IBM Worklight is part of the **IBM Mobile Foundation** family of products that provides the essential elements needed for complete mobile development, deployment and management within a business.

System Architecture

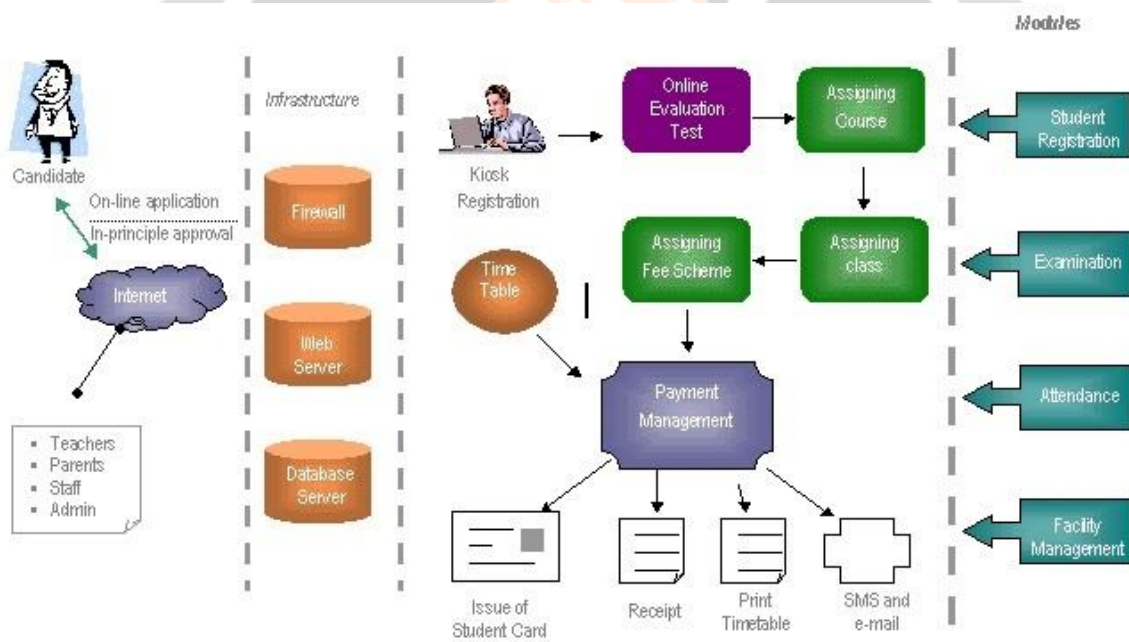


Fig : System Architecture

As per the architecture when faculty login in the system administrator authenticated with valid login and password to the faculty. Faculty checks for the attendance and the daily conductance. Can generate the reports and result for individual students. This can help to maintain the record individually for each student. After the completion of lecture faculty can take the attendance using the user friendly interface instead of old traditional methods.

Database

Databases are the storehouses of data used in the software systems. The data is stored in the tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential setting for a database are

- 1) Primary key-the field that is unique for all the record occurrences.
- 2) Foreign key-the field used to set relation between tables.



Fig : Flow Graph

Conclusion

The main objective of the application is to help the faculties and the students to improve the interaction between the students and the faculty smartly. This application also improves the performance over the existing system by providing the all data to the faculty in digital form. This also reduces the workload as well as the less paper work for the faculties.

The application is based on the android worklight platform which is easy to understand by the user and it can be easy to maintain the application in various native platform.

This application can be easily used by each and every institute and easy to download the application on android base cellphones and devices.

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