COLLEGE MANAGEMENT SYSTEM BASED ON ANDROID APPLICATION USING CLOUD COMPUTING

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ABSTRACT:

This is an Android application which is very useful for college students. In the previous system, all the information must be viewed in a website. At that time searching any information is too difficult and it takes a lot of time to search the particular website for each and everything like (Question papers, Aptitude Test, Information of Syllabus etc.), and it needs additional browser to search any website. Hence, to overcome this problem a smart phone based application using Android can be used to make this process easier and faster. Android is an open source Linux based system developed by Google. We will be using it to accomplish our daily task. One application that falls into this category is the Android Application for College. This College application provides a wide range of useful information which splits into several functionalities. These include: Syllabus, Question papers, Aptitude Questions, College Notices or Notifications, What’s New Today and Important Videos. Users can install this application in their android mobile to view all this Information and use it.

The design and implementation of this system is to provide services in institute. This application is used to provide comprehensive student information and user interface. The system plans for student user interface, allowing students to access resources as provided by college. Previously, college students relied heavily on browsers which had its own disadvantages like searching all websites for each and everything, but this system helps us to maintain all required information in single app.

1.2 This application decreases time needed to search all information. This system provides a simple interface for the maintenance of student information. This app will provide information in an easy and interactive manner which provides facilities like online registration, questionnaire system, syllabus viewing, providing Aptitude Questions, Important Educational videos related to Syllabus, College Notification and many more activities. The results can also be displayed on web server.

Keywords: Android, Cloud Storage, Library Books, Notification, Syllabus, Question Paper, Aptitude Questions, Important Videos.
[1] INTRODUCTION

Background:

1.1 Nowadays everyone is friendly with android mobile phone. But students heavily depended on web browser for downloading syllabus, question paper etc. also in PHCET campus. Now the system is present for online railway reservation but the students required system and browser for online reservation, hence we are developing an Android Mobile App for overcoming those problems.

[2] EXISTING SYSTEM

The system which is used nowadays has some drawbacks which need to be improved for better performance. In the current system, all the information has to be viewed in a website. At that time searching any information is too difficult and it takes a lot of time to search the particular website for each and everything, but this system helps us to maintain all required information in Single App. In this app students can View the important videos, syllabus, question papers, etc. also they can solve aptitude Questions to increase their knowledge.

![Fig.1 Existing System Architecture]

The system which is used nowadays has some drawbacks which need to be improved for better performance. In the current system, all the information has to be viewed in a website. At that time searching any information is too difficult and it takes a lot of time to search the particular website for each and everything, but this system helps us to maintain all required information in Single App. In this app students can View the important videos, syllabus, question papers, etc. also they can solve aptitude Questions to increase their knowledge.

Drawbacks of Existing System

- It takes a lot of time for searching data.
- It is very difficult to search a particular website for every study related module.
- Searching for information in each and every website is very difficult.
[3] PROBLEM STATEMENT

The system which is used nowadays has some drawbacks which need to be improved for better performance. As the technology is developed day by day we need to use this technology so we can get an efficient result in adequate time. College cannot even provide urgent notifications to students in case of emergency. All the information has to be maintained in a hard file, or in website. While searching any information it is too difficult to access and takes lot of time.

[4] PROPOSED SYSTEM ARCHITECTURE

The system architecture has a Smart Phone or tablet with an Android OS, a web services, a database server and the user as its components. The android smart phone or tablet must use 3G or WiFi network for Internet connection to ensure better performance. We also use 2G Network but because of speed of that network user request with added disadvantage of time lag. The user will login into the application through an android smart phone. The user-type is verified with the database server and access is given to the appropriate user.

![Proposed System Architecture](image)

The web application also can be used to login and perform certain operations such as Registration or login of users, generation of reports. The web application and the android application access data from a common Database server through the Internet.

[5] BENEFITS OF PROPOSED SYSTEM

1. The application will greatly simplify and speed up the result preparation and management process.
2. Students do not need to go at library for checking the availability of books.
3. It overcomes the limitations of the web based system as our proposed system is developed on Android OS.
4. As the current system is manual it does not require any sophisticated training for the user of the system.
5. This project will cater facilities to all the existing versions of android devices.
6. Students do not have to visit the college notice board every time.
7. Information of courses is also available on android application so no need to visit any another website or browser.

[6] WORKFLOW

Android: The Android system is the one of the open source system. In INDIA the wide range of people are used android mobiles than MAC (IOS) and windows OS.

Placement mantra: In this module students get guideline from the already placed students to how to crack aptitude test, group discussion, how to score more in semester exam and it will display the criteria of companies too.

Aptitude Questions: This module is very important to all the students. Because in placement job the first criteria of the company is to crack the aptitude test, if aptitude test is cracked then and then only the student can go for the next round. In this module, questions and their four options will be display on mobile phone if answer is wrong then it will display wrong mark and if answer is correct then it will display right mark on the screen

Notice: In this module, admin will send any notification on this app, after sending or posting the notification it will be directly displayed on mobile phone. This module is very important module in this app.

Question Papers: If student want to view question paper then he/she can directly request to the database through this application by simply selecting semester and subject, and student can view the required.

Result: Again, for this students required browser to see their own result. In our app they can directly see their own result on their own mobile phone. In this module the admin will update the result.

Topic of the day: In this module every day admin will add the new topic or new concept which is very important and that will be displayed on every mobile phone through this app. Because of this module the information about new technology can be spread to every student. It is the simplest way to spread the new information to everybody.
Database Module: The proposed system used MySQL as its database because of their simplicity and flexibility. This module stores every single information about students and model their data on specified operations, these operation can be storing images, library books information, syllabus, etc.

Syllabus: If student wants to view syllabus of particular semester then he/she can directly request to the database through this application by simply selecting semester and subject, and the student can view the required syllabus.

Important Topic Videos: This module is again very important module. The topics which are very important as per semester exam point of view are simplified by the videos.

Library Books: In this module student can view the list of available books in the library. For this, students have to select their stream, book name and author name. After selecting this information the module will show if the required book is available in the library or not. If available then it will show the quantity of books.

Railway Concession: This module is very important for PHCET students because now they are filling concession form using the browser for that they require system. And if the system is not available then they cannot fill railway concession form. But in our app they can directly fill concession form by their own mobile phone making it convenient.

Admin Module: This module is designed for Admin, which is used to update information and upload college notifications. Admin will login with their own PHCET login id and password. Only after successful authentication the operations are performed. If username and password match, he/she can enter into their account or else not.

[7] RESULT ANALYSIS

This android app is more reliable and portable. In earlier system, the student was depended on web based computer system to access college website whereas they can access functionality of the college website anywhere anytime by this android app, which does not need a browser, thus making it time saving and convenient to use. It also helps in downloading the syllabus and question papers which was not possible in the previous website, which helps the students in their curriculum.
[8] IMPLEMENTATION

LOGIN PAGE

Home Page
CONCLUSION

An Android based mobile application for College Management System is presented. The application offers reliability, time savings and easy control. Students will also view library books which are available in library using this application. Students will receive notifications anywhere and anytime. The proposed system provides the new way of computing and displaying an operation with responsive and attractive user-interface. This system helps us to maintain all required information in single app. In this app students can view the important videos, syllabus, question papers, etc. They can solve aptitude test to increase their knowledge.

REFERENCE