Study and Evolution of Web Portal with Android App for College

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Abstract: Main aim in developing "Web Portal with Android App for College" is to provide an easy way not only to automate all functionalities of a college, but also to provide full functional reports to top management of college with the finest of details about any aspect of college. The system has the perspective of attaining attraction of those colleges which don't have one good performing software/App for keeping their information secure and make their management easier.

Keywords: web portal, functionalities, software, app.

I. INTRODUCTION

This system provides the detail structure of the college campus and its departments. System synchronizes the working of all the college, its principle, HOD, faculty, alumni and their students and other co – curricular activities. Our Project is the easiest way to manage all functionalities of a college. In which facilitates colleges to maintain the functionality related to college Environment.

This Project is a simple yet powerful one joint integrated platform that connects all the various departments of an institution like Administration, Staff details ,Share updates and many more specialized modules. A college is a highly interactive environment and collaboration between various entities is an integral part of its functioning. This collaboration not only takes place in the class room (i.e. teachers and students) but also regularly between management and students, Alumni, placement officer and students, among teachers, among students etc.

Purpose: This document describes the various functions of our project. The actual design of the various modules and components of system is described in this document, which takes care of various functionalities that our project aims to achieve and for determining the operating characteristics of the system.

Product Scope: Web Portal with Android Application College is a web-based application for students,

Faculty, academic staff and parents who want to get and retrieve student's whole information instantly via internet. The major benefit of this web portal is to store the student's

information at one place (like SERVER) and it can be accessed via online interaction. The web portal is to replace the old and traditional file storing process. Instead of tedious work, students will be able to submit required information electronically, and the departments will be able to evaluate the submissions with a much quicker turnaround.

II. SYSTEM MODEL

In this system plan, our web portal/app is connected with all clients as well as with server. Here, admin is connected with server and manages all clients record and provide them authentication with help of this app. additionally, clients are easily interconnected with server.
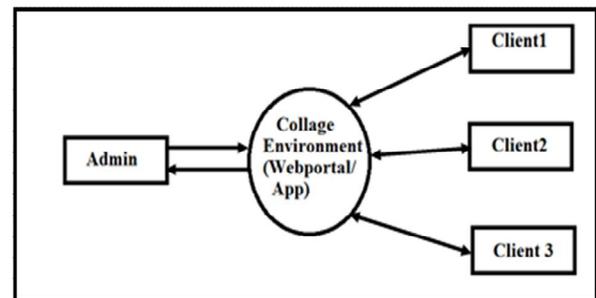

Fig. 2.1 System Plan

The Waterfall Model

The Waterfall software development model has been in use for a number of decades and it is still commonly used in software development projects today. It is a sequential model where the development process goes through a number of phases in a certain order. While it has been replaced to a large degree by the iterative models of software development, Waterfall still has its place in today's IT world. Basically, it requires that any project goes through the stages of requirements analysis, design, implementation (coding), verification, and maintenance.
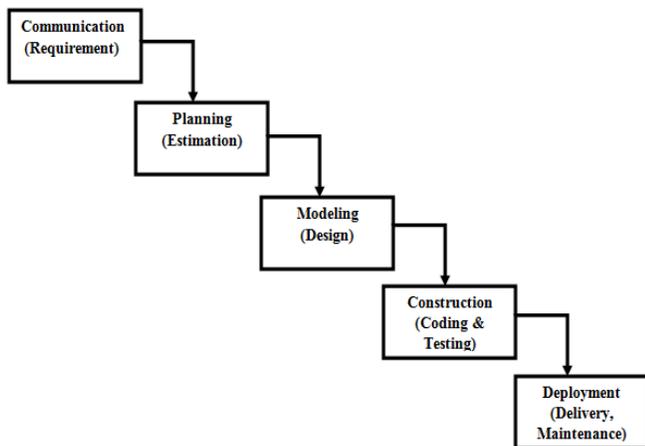
Fig.2.2 Waterfall Model For System

In comparison to iterative models, the Waterfall model is seen as inflexible and linear—though it's preferred by many who feel iterative software development methodologies lack discipline. Although there are variations, in the true Waterfall model, the project only moves from one phase to the next when a phase is completed in its entirety. Therefore, no work will begin on the design phase until requirements analysis is complete. Also, there is no room for backtracking, so when a phase is complete it has to be right. The Waterfall model is often used for very large software development projects and may involve development teams working in different locations. Once implementation, or coding, is complete the various components will be integrated into a working piece of software. The verification phase will involve testing and debugging of the software before it is released.

III.   PREVIOUS WORK

- Existing System

We are studying here the existing system of our college for the purpose of interacting with student, teachers, principle, librarian, and other staff.
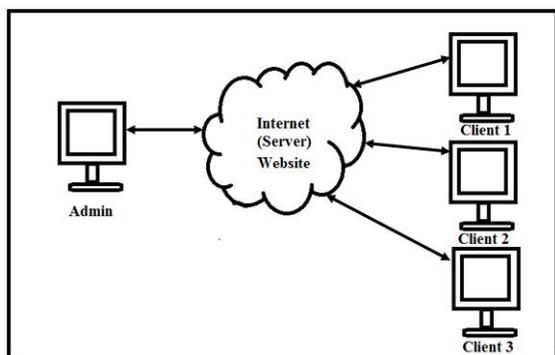

Fig.3.1 Existing System Structure

This system was not providing effective interface and full functionality which is required to the college environment. Students were not able to solve their problems with help of this complicated system. This system is time consuming process in any procedure[1][2].

The Existing system does not having the efficient and user-friendly interfaces. Sometimes user has to face many problems while using this system.
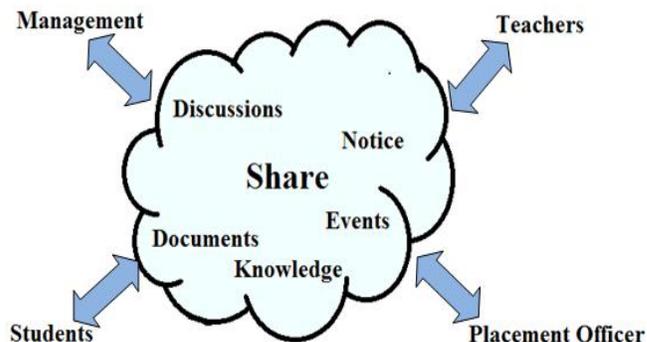
IV.   PROPOSED METHODOLOGY

Fig.4.1 Structure of the System

Structure of the system is connected with college environment. Users can be easily communicated and also able to share notes, assignments, documents, practical etc. The main server is compatible with the domain, because of that they can work properly.
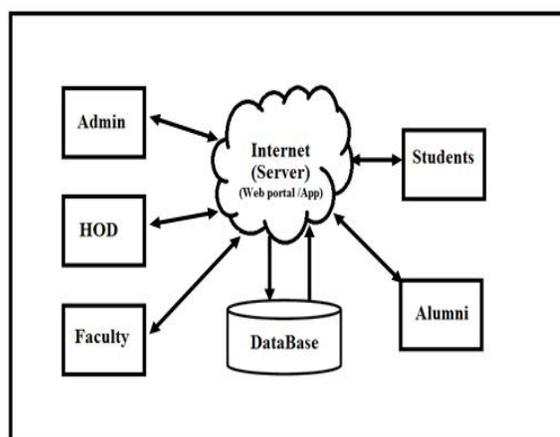

Figure.4.2 Proposed System Structure

- Proposed System

This system is a web-based application for students, faculty, academic staff and parents who want to get and retrieve

Table. Difference between Existing System and proposed System Student's whole information instantly via internet. The major benefit of this web portal is to store the student, staff, faculty information at one place and it can be accessed via online interaction. The web portal is to replace the old and traditional file storing process. Instead of tedious work, students will be able to submit required information electronically, and the departments will be able to evaluate the response with a much quicker turnaround.

V. CONCLUSION

This project has continuously useful for the user with web and its application. But along with this innovation, comes into presence the reliable environment for college. And also reduces the time complexity for any task of user. In near future, this application will be very useful. So, overall this will provide great experience for access of web portal/app.

System for College has the perspective of attaining attraction of those colleges which don't have one good performing software/App for keeping their information secure and make their management easier. College Management System provides one attractive environment where you can manipulate data and information about students and staff easily. So we can say the Core purpose of designing System is to manage the task related to the college students/Staff and to reduce time to searching of appropriate candidates in college view.

VI. FUTURE SCOPES

The system has been designed at the maximum possible excellence. Still we accept drawbacks, as it is a human effort. The system cannot provide the sms integration. Hence, it can be modified to give the sms integration. The system can be made more users friendly. The program is coded in more structured manner so we can include future enhancement.

There is scope for improvement of the system. Apart from these there is scope for generating many more features. This software can be extended easily without affecting the functionality.

In the future, we can place the system on the cloud so the maintenance of the data can be reduced. The exam system will integrated with the system so the student result can get directly. There can be many more future enhancement and improvement in the system.

VII. REFERENCES

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