

DEPARTMENTAL WEB PORTAL

Mrunali Maskey¹, Prajakta Ambekar², Aman Khobragade³, Prof. K.V. Warkar⁴

Computer Engineering Bapurao Deshmukh College of Engineering, Sevagram, Wardha, India

Abstract - Living in modern world and not using digitalization not a better way, using modern technology and internet for reducing work and increasing efficiency is a way to digital country and using technology helps in having a smart work process so to implement this in college an Online College Departmental Web Portal is designed to implement digitalization and reducing work of college staff/faculty and students like providing notes, question papers, mock test series, keeping records in files for years is reduced by this system and to overcome the problems caused by human error and wastage of time doing all process manually.

Keywords: — *Online college portal, Mock Test Series, Question Papers, Notes.*

I. INTRODUCTION

A web portal is a specially designed website that brings information from diverse sources, like emails, online forums and search engines, together in a uniform way. Usually, each information source gets its dedicated area on the page for displaying information (a port let); often, the user can configure which ones to display. Variants of portals include mashups and intranet "dashboards" for executives and managers. The extent to which content is displayed in a "uniform way" may depend on the intended user and the intended purpose, as well as the diversity of the content. Very often design emphasis is on a certain "metaphor" for configuring and customizing the presentation of the content (e.g., a dashboard or map) and the chosen implementation framework or code libraries. In addition, the role of the user in an organization may determine which content can be added to the portal or deleted from the portal configuration.

A portal may use a search engine's application programming interface (API) to permit users to search intranet content as opposed to extranet content by restricting which domains may be searched. Apart from this common search engines feature, web portals may offer other services such as e-mail, news, stock quotes, information from databases and even entertainment content. Portals provide a way for enterprises and organizations to provide a consistent "look and feel" with access control and procedures for multiple applications and databases, which otherwise would have been different web entities at various URLs. The features available may be restricted by whether access is by an authorized and

authenticated user (employee, member) or an anonymous website visitor.

A structured and organized collection of data and information is the need of the hour at any Department of an Engineering College. Web portal include question paper, notes, video regarding syllabus, CRT notes, CRT mock test, question bank for sessional and class test. This paper is specifically focused to tackle such issue by designing a Web Portal exclusively for the department. A Web Portal to smoothen the process of by giving and providing a previous years question papers, mock test, CRT test, subject related notes etc. everything related to the college notes could be referred by students and faculties bringing clarity to the both ends to avoid confusion and misinterpretation. This web portal will not only host centralized data available to its entire user but also improve communication between the staffs and the student by easy and effective sharing of a content and information in the portal itself.

A Web Portal is a collection of university question papers, notes regarding to semester subject, assignments, videos, question bank, CRT notes with their mock test etc. that is hosted on one or several web servers. It is basically website and a part web application, as it would be providing services to its users, regarding to the its semester subjects and current updates as like assignments, question bank etc. that may be useful to the user or student. This web portal is beneficial to the user because it contains a number of university papers and notes referred by subject teachers likewise its beneficial to the user in every manner. This Web Portal is useful to student to save their time,

This Portal would be handled by an Administrator. The Faculty staff members can upload their notices, assignments on particular sections which will visible to all the students and Staffs equally. With the help of this web-based application, a user can use a single account to access the notes. Faculty and student likewise can also post notes in pdf format, e-books, word documents, lecture videos and important notices through intranet gateways. Student also can to send feedback or suggestion using comment facility or discussion forums.

II. LITERATURE REVIEW

In this section we will be describing about the various techniques that are used to implement a web portal

and the views of various authors about the existing system and its scope.

Pallavi Yadav and Paras Nath Barwal have demonstrated the need of Responsive Designing using CSS3 and HTML5 in [1]. A modern website is a tool for any company to increase its visibility towards potential customers. It is common for companies, institutions, organizations and individuals to have websites to reach audience or customers. However, it is not enough just to be present on web and available through web search engines anymore. People are spending most of their time online and most of them are using handheld devices to access the Internet, so now websites need to be optimized for all these devices in order to provide the best user experience. Besides multiple resolutions and screen sizes, different web browsers and platforms, some differences also exist in the ways users input data in devices: using a mouse, touching the screen or making movements. Internet is accessible to anyone and anywhere.

According to Authors in [2], the Solutions regarding threat to session Management are varying, some are general while others are specific. All over the world Internet users are using web based systems that follows the client server paradigm. The web browser acts as the client for a web server that provides the service. These web based systems rely on the HTTP protocol for communication, but it is a stateless protocol. Over the last few years, the web has shifted from being a collection of pages containing static information to a dynamic and fully interactive platform. Where the Internet was once used only as an information repository, today it powers complex web applications, developed both to replace programs that used to run locally on a user's computer, and to provide whole new functionality that is possible only on the web. Most web applications handle user authentication via the concept of web sessions. These allow users to use a web application without having to enter their login credentials for every action taken. Unfortunately, web sessions have many security weaknesses. OWASP, a leading organization in the field of web application security, rates Broken Authentication and Session Management as the third most important web application security risk. A problem is that users of a web application have to trust the developer of the application to take the necessary security precautions.

Saurabh Walia and Satinderjit Kaur Gill have designed a Framework for Web based Student record Management in [3] exclusively for Colleges and Universities. The data framework is essential in gathering all information also data of all staff or part in one association to be in one spot. The framework is typically given extremely accommodating errand that will supplant the human as to keep it in record as the stock or different purposes.

According to Peng Li and Eric Wohlstader , Script Insight: Using Models to Explore JavaScript Code from the Browser View [4] the user interface (UI) is a key aspect of most Web sites. As Web browser programming standards such as JavaScript and the W3C Document Object Model (DOM) have matured, the implementation of UIs for many sites has seen a parallel increase in complexity. These rich Web applications have the advantage of providing a seamless and interactive experience for end-users. However, these applications also require more development effort to build and maintain than older Web UI. As the Web has become more interactive and complex, we are researching a more interactive, model-based approach for Web application

According to [5]. Before the Internet, became widely uses as a method of seeking jobs, jobseekers spent a lots of time using various methods to look for job openings. Today, jobseekers use online methods which are very convenient and save a lot of time. This is helpful to save our time

III. METHOD & MATERIAL

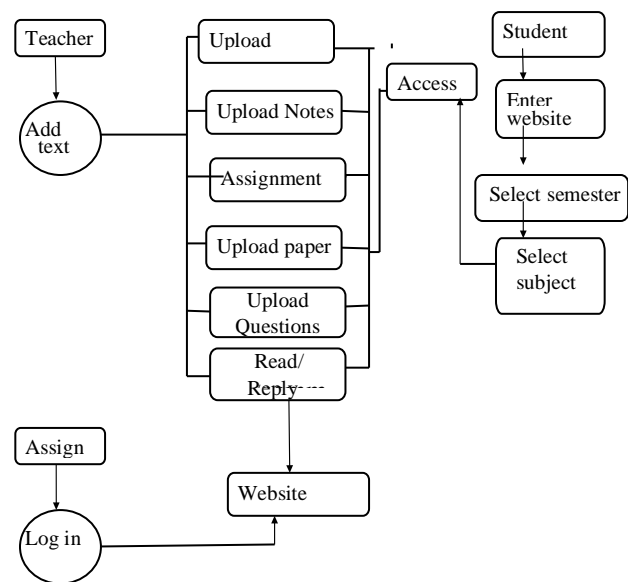


Figure 4.2 : Flowchart of Departmental web portal

Student Side:

Firstly, the Students would enter the departmental web site to get access to the required information. A web page will get popped up which would ask the students to select their required semester's information. A new web page will be

displayed which would ask the students to confirm their particular subjects.

After the confirmation of the subjects, the students will be able to access all the required information regarding their selected subjects (i.e. notes, assignment, question papers, mock tests, videos, question bank etc) There is a comment section that will only be for the queries or doubts of the students and valued feedback.

Admin Side:

The admin of the project needs to login to the portal with his/her login credentials. A web page will get opened where the admin can upload, delete and modify the information (i.e. Aptitude test, reasoning test, tricks, and notices)Admin must maintain the website.

Teacher side:

The teachers of our department also need to login with their login credentials. The teachers will be contributing a major task of uploading, deleting and modifying the information (i.e. uncovered syllabus, videos, assignment questions, syllabus for practical's etc.). A minor task of teachers will be to reply to the query comments of the students.

V. RESULT & DISCUSSION

This paper study on various strategies proposes on deep application. The system is very simple in design and to implement. The system requires very low system resources and the System will work in almost all configurations. It has got following features:

- It will ensure data accuracy.
- Records will be efficiently maintained by DBMS.
- Availability of notes, syllabus, and test-series can be enquired easily.
- Minimum time needed for the various processing.
- It will provide better Service.

This system design is to create a technical solution that satisfies the functional requirements for the system. At this point in the project life cycle there should be a Functional Specification, written primarily in business terminology, containing a complete description of the operational needs of the various organizational entities that will use the new system. The challenge is to translate all of this information into Technical Specifications that accurately describe the

design of the system, and that can be used as input to System Construction.

Methodology

In this proposed system we can implement a system which can manage project cognate all work consummated by utilized and Project coordinator or guide. Coordinator updates project cognate information, view work done by a student at which time and view progress chart of work done by student, progress chart is developed utilizing WBS ("Work Breakdown Structure"). Student retrieved the given work information updates and consummates this work at given time and submits into the project management system. System architecture is the conceptual design that defines the structure and/or behaviour of a system. An architecture description is a formal description of a system, organized in a way that supports reasoning about the structural properties of the system. It defines the system components or building blocks and provides a plan from which products can be procured, and systems developed, that will work together to implement the overall system. System Architecture, Defining the architecture as the set of relationships between the components of a system, that jointly ensures emergent properties of the system as a whole. The architecture of a system is the set of relationships between its components that cause the system to have desired properties, such as desired functionality, behaviour, semantics and quality of service. Architecture is the central problem in web applications because these applications should enable distributed coordination between people and the architecture of these coordination mechanisms evolves by itself as well as is designed by people. While starting to read the chart from top, we start firstly with web browser, that is mainly used as a web application for retrieving and presenting information resources on the web that can be used all over the world. Some browsers can be also used to save information resources to file systems. For next step we connect web browser to Apache web server, what generally is recognized as the world's most popular Web server (HTTP server). Originally designed for UNIX servers, the Apache Web server has been ported to Windows. The Apache Web server provides a full range of Web server features, including CGI, SSL, and virtual domains. Apache is reliable, free, and relatively easy to configure – which corresponds to our requirements. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards. In our project we use Apache to serve dynamic Web pages, where the content is available in a secure way.

VI. CONCLUSION

We concluded that there are many web portals systems in existence but not too smart to provide and get complete detailed data about notes and syllabus.

VII. REFERENCE

- [1] Pahlavi Yadav and Paras Nat Brawl, "Designing Responsive Websites Using HTML and CSS ", International Journal of Scientific & Technology Research, Vol. 3, Issue 11, pp. 152-155, November 2014.
- [2] Mesh Kumar Singh, Rakhi Sunhare, Kailash Chandra Phuleriya, "Study and Analysis of Session Security on Web Based Applications", International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 3, Issue 12, pp. 266-269 December 2013.
- [3] Saurabh Walia, Satinderjit Kaur Gill, "Framework for Web Based Student Record Management System using PHP", International Journal of Computer Science and Mobile Computing, Vol. 3, Issue. 8, pp. 24-33, August 2014.
- [4] Peng Li and Eric Wohlstadter, "Script InSight: Using Models to Explore JavaScript Code frothe Browser View ", University of British Columbia, 2011.
- [5] M. Mansourvar and N. Y. Mohd, "Web portal as a knowledge management system in the universities," World Academy of Science, Engineering and Technology, vol. 70, pp. 968-974, 2010.
- [6] Ralph Moseley and M.T. Savaliya, "Developing Web Applications", 2nd ed., Wiley India Pvt. Ltd., 2013.
- [7] Herbert Schildt, "Java: The Complete Reference", 7th edition, McGraw-Hill, 2008.
- [8] Thomas A. Powell, "HTML: The Complete Reference", 2nd ed., McGraw-Hill, 1999.
- [9] Robin Nixon, "Learning PHP, MySQL & JavaScript with jQuery", CSS & HTML5,4th ed., O'Reilly Media, 2015.
- [10] Chau, R., Chung-Hsing: "Yeh, Intelligent techniques for global ebusiness Web portal development", The 2005 IEEE International Conference on e-Technology, eCommerce and e-Service. April 2005, pp. 334 - 340.