

ABSTRACT

Alumni portal is providing common platform for every institute. This project is aimed at developing an interactive system for the alumni of particular college. The proposed system will help alumni and the concerned institution to create strong bonding through sharing their experiences, views, ideas, guidance, motivation inputs and strategies. A system that will be able to manage alumni data of an institution and provide easy access to secure information at both ends. This portal highlights the feature of communication, which will enable the current students to have interaction with the alumni of the college for getting various updates regarding job opportunities like industrial trends and industrial events etc. The proposed system will be developed with an open source platform on web. This will help the user to access the portal from any location. Few of the required web design packages will be developed for better understanding. Various reporting formats can be generated based on filtering strategies. The admin panel will have all the rights to control the complete operation of system and implement add-ons if required in future. The system will automatically list all alumni information their graduation and their status will be transferred from the student module to the alumni module.

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LIST OF ABBREVIATION

SHORT FORM	FULL FORM
API	Application Programming Interface
CSS	Cascading Style Sheets
DB	DataBase
HTML	HyperText Markup Language
HTTPS	Hypertext Transfer Protocol Secure
JS	JavaScript
JSON	JavaScript Object Notation
JWT	JSON Web Token
PaaS	Platform as a Service
REST	Representational State Transfer
SSH	Secure Sockets Layer
SSR	Server Side Rendering
UI	User Interface
WWW	World Wide Web

CHAPTER 1

INTRODUCTION

1.1 AIM OF THIS PROJECT :

Alumni associations play an essential role in higher education institutions, as they provide networking opportunities and contact between the university and the alumni or among the alumni. However, the lack of communication between the alumni, faculty and the department as a whole leading to the lack of updated data of alumni hinders the effective development of an alumni association. The lack of data update can be tied to disinterest or ignorance of the alumni about the potential of an alumni association to promote a professional network, academic and even personal relationships. Similarly, the need for an effective system to maintain these records and to update them frequently becomes increasingly pressing as the number of students enrolled in the campus continues to increase. One of the ways to consolidate the relationship between alumni and educational institutions is to create a virtual and interactive portal to provide useful information to the alumni to help extend the contact between the alumni and the university to beyond the period of course completion, regardless of geographic location or time.

1.1.1 OBJECTIVE :

In this project we developed an Alumni Information and Management with various technologies which helps to keep a track of Alumni current status and pave the way for interaction.

1.2 SCOPE :

To bring together all the old students and the faculty members to share their experiences with each other which utilize the rich experiences of old students of the college for the benefit and progress of the present students. It also helps to provide guidance to the present students in their endeavor for better employment and higher studies. To get the valuable advice of the Alumni in the overall development of the college.

1.3 Web Application

1.3.1 Preface :

A website application, which is also popularly known as a web app, is a software application program that uses web-based technology to perform specific tasks. Remote web servers host web applications and store relevant information from numerous connected computers. You can use a client program to run the web applications and access or enter the required data. That is why people often refer to web apps as client-server programs. Web applications have undergone many developments, and the current ones are far more sophisticated in their features and use than the earlier simplistic ones. They are also far more indispensable for personal and business use.

1.3.2 Frontend :

Front-end web development, also known as client-side development, is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly. The challenge associated with front end development is that the tools and techniques used to create the front end of a website change constantly and so the developer needs to constantly be aware of how the field is developing.

The objective of designing a site is to ensure that when the users open up the site they see the information in a format that is easy to read and relevant. This is further complicated by the fact that users now use a large variety of devices with varying screen sizes and resolutions thus forcing the designer to take into consideration these aspects when designing the site. They need to ensure that their site comes up correctly in different browsers (cross-browser), different operating systems (cross-platform) and different devices (cross-device), which requires careful planning on the side of the developer.

1.3.3 Backend :

Web development activities that are done at the back end of programs are referred to as back end development. Back-end development covers server-side web application logic and integration and activities, like writing APIs, creating libraries, and working with system components instead of frontend development, which focuses on customer-facing services and programs. Backend developers build code that allows a database and an application to communicate with one another. Backend developers take care and maintain the back-end of a website, including databases, servers, and apps, and they control what you don't see.

Backend is the server-side of the website. It stores and arranges data, and also makes sure everything on the client-side of the website works fine. It is the part of the website that you cannot see and interact with. It is the portion of software that does not come in direct contact with the users. The parts and characteristics developed by backend designers are indirectly accessed by users through a front-end application. Activities, like writing APIs, creating libraries, and working with system components without user interfaces or even systems of scientific programming, are also included in the backend.

1.3.4 Database :

The Database is an essential part of our life. As we encounter several activities that involve our interaction with databases, for example in the bank, in the railway station, in school, in a grocery store, etc. These are the instances where we need to store a large amount of data in one place and fetch these data easily.

A database is a collection of data that is organized, which is also called structured data. It can be accessed or stored in a computer system. It can be managed through a Database Management System (DBMS), a software used to manage data. Database refers to related data in a structured form.

In a database, data is organized into tables consisting of rows and columns and it is indexed so data can be updated, expanded, and deleted easily. Computer databases typically contain file records data like transactions money in one bank account to another bank account, sales and customer details, fee details of students, and product details. There are different kinds of databases, ranging from the most prevalent approach, the relational database, to a distributed database, cloud database, and NoSQL databases.

1.3.5 Container:

A container is a standard unit of software that packages up code and all its dependencies so the application runs quickly and reliably from one computing environment to another. A Podman container image is a lightweight, standalone,

executable package of software that includes everything needed to run an application: code, runtime, system tools, system libraries and settings.

Container images become containers at runtime and in the case of Podman containers – images become containers when they run on Podman Engine. Available for both Linux and Windows-based applications, containerized software will always run the same, regardless of the infrastructure. Containers isolate software from its environment and ensure that it works uniformly despite differences for instance between development and staging.

CHAPTER - 2

LITERATURE SURVEY

2.1 Ruchika Kolhe :

The proposed system is, the alumni tracking application is a web-based system that is accessible to all alumni. It can also be used as a website/medium for graduates and their respective college alumni coordinators to stay in touch with each other. Important data from the alumni are solicited through this platform. These data, particularly on their employment, can be used as bases in making strategic decisions, i.e. curriculum revision, research agenda preparation, potential extension activities among others. The website can be accessed using a mobile device through which college graduates can update their current employment status and other information. All the collected data shall be stored in a server. There is no automata for inclusion of upcoming Alumni data.

2.2 Yusen Lan :

The current application processes and system frameworks are difficult to solve these problems. It is necessary to transform the management model through information gathering technology, data mining technology and social networking platforms. In this section, we build an integrated intelligence alumni information management system to optimize the process of alumni management, assist school leaders in making decisions, and promote the full use of alumni resources. This system consists of three major platforms: Alumni Social Network Platform, Intelligent Data Acquisition and Storage Platform and Data Mining and Auxiliary Decision-Making Platform. It doesn't support the current students to