

A Stage-1 Project Report  
on  
**Creation of Department Alumni Portal**

Submitted By

1. Dhangar Yadnyesh K. (B1900903012)
2. Gudgal Aniket N. (B1900903023)
3. Kulkarni Shubham M. (B1900903043)

In partial fulfillment for the award of

**Bachelor of Engineering**  
**(Electronics & Telecommunication Engineering)**

Guided by

**Prof. C. K. Kalawade**

**SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE (M.S.)**



Department of Electronics and Telecommunication Engineering  
**D.V.V.P. College of Engineering, Ahmednagar**  
2024-2025

## **CERTIFICATE**

This is to certify that, the seminar titled, “**Creation of Department Alumni Portal**” submitted by **Dhangar Yadnyesh K. (B1900903012)**, **Gudgal Aniket N. (B1900903024)**, **Kulkarni Shubham M. (B1900903043)** is a bonafide work completed under my supervision and guidance in partial fulfillment for award of Bachelor of Engineering (Electronics and Telecommunication) Degree from D.V.V.P. College of Engineering, Ahmednagar affiliated to Savitribai Phule Pune University, Pune (M.S, INDIA).

Place: Ahmednagar

Date:

**Prof. C. K. Kalawad**  
**Guide**

Department of Electronics and  
Telecommunication Engineering

**Dr. A. K. Patil**  
**Head**

Department of Electronics and  
Telecommunication Engineering

**Dr. U.P.Naik**  
**Principal**

D.V.V.P. College of Engineering  
Ahmednagar

## **PROJECT APPROVAL SHEET**

**Dhangar Yadnyesh K. (B1900903012), Gudgal Aniket N. (B1900903023), Kulkarni Shubham M. (B1900903043)** has done the appropriate work related to “**Creation of Department Alumni Portal**” in partial fulfilment for the award of Bachelor of Engineering (Electronics & Telecommunication) of Savitribai Phule Pune University, Pune (M.S, INDIA) is being submitted to D.V.V.P. College of Engineering, Ahmednagar.

**External Examiner:**

**Guide: Prof. C. K. Kalawade**

**Date:**

**Place: D.V.V.P. College of Engineering  
Ahmednagar – 414111, M.S., INDIA**

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## **List of Abbreviations**

<b>Symbol</b>	<b>Illustration</b>
BPMN	Business Process Modelling Notation
CSS	Cascading Stylesheets
CV	Curriculum Vitae
DBMS	Database Management System
DFD	Data Flow Diagram
E-R	Entity Relationship
HAA	Harvard Alumni Association
HTML5	Hypertext Markup Language (version 5)
NUS	National University of Singapore
PHP	Hypertext Pre-processor
RAD	Rapid Application Development
SQL	Structured Query Language
UML	Unified Modelling Language
API	Application Programming Interface

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I feel a deep sense of gratitude to **Dr. Anita K. Patil**, Head of Electronics and Telecommunication Engineering Department for her continuous encouragement and for developing a keen interest in this field. It's my pleasure to thank **Dr.U.P.Naik** Principal, who is always a constant source of inspiration.

I am very much thankful to all my faculty members, whose presence always inspires me to do better. My happiness culminates, when I recall the co-operation extended by my friends during the completion of this seminar/project work.

A final and heartily thanks go to my parents.

### **Name of the student**

1. Dhangar Yadnynesh Kailas
2. Gudgal Aniket Navnath
3. Kulkarni Shubham Mahendra

# 1: INTRODUCTION

## 1.1 Introduction

The College Alumni Management System project, an innovative and purpose driven platform that aims to establish and nurture a strong bond between our esteemed educational institution and its esteemed alumni community. With a vision to create a thriving ecosystem for graduates, this system offers a seamless and user-friendly interface, empowering our alumni to remain connected, share their achievements, and actively participate in the college's continued growth and success.

The College Alumni Management System project is built on the foundation of fostering meaningful relationships, knowledge sharing, and professional opportunities among our graduates. Through inspiring galleries, interactive forums, and engaging events, this project serves as a conduit for alumni to showcase their accomplishments, provide mentorship, and collaborate with each other and current students.

Our mission is to create a dynamic and vibrant alumni community, where every graduate can take pride in their alma mater, stay updated with the latest developments, and embark on a journey of lifelong learning. We believe that by leveraging modern technologies and user-centric design, our alumni management system will become a valuable resource for both alumni and the college, strengthening our ties and collectively contributing to a brighter future.

## 1.2 Necessity

The necessity of an Alumni Management System arises from the critical need to maintain and enhance the relationship between an educational institution and its alumni. Alumni are valuable assets who can contribute significantly to the institution's growth through mentorship, networking, and financial support. However, without a structured system, maintaining these connections can be challenging.

An Alumni Management System provides a centralized platform for communication, engagement, and collaboration, ensuring that alumni remain connected and involved with their alma mater. This system facilitates the seamless exchange of information, supports fundraising efforts, and helps track the professional progress of alumni, thereby enhancing the institution's reputation and resources.

## 1.3 Objectives

The primary objective of developing an Alumni Management System is to create a robust platform that fosters continuous engagement between the institution and its alumni. Specific objectives include:

- **Enhancing Communication:** To provide a reliable and efficient means of communication between the university, its alumni, and current students<sup>1</sup>.

- **Facilitating Networking:** To enable alumni to connect with each other and with current students for professional networking, mentorship, and career opportunities.
- **Tracking Alumni Progress:** To maintain an updated database of alumni, tracking their career progress and achievements, which can be used for institutional development and marketing purposes.

#### 1.4 Theme

The theme of the Alumni Management System revolves around the concept of connectivity and community building. It emphasizes the importance of maintaining strong ties between the institution and its alumni, highlighting the mutual benefits of such relationships. The system is designed to create a sense of belonging and pride among alumni, encouraging them to stay engaged with the university. By fostering a collaborative environment, the system aims to leverage the collective strength of the alumni network to support the institution's goals and initiatives. The theme underscores the value of lifelong relationships and the role of alumni in shaping the future of their alma mater.

#### 1.5 Organization

The organization of the Alumni Management System is structured to ensure efficient and effective management of alumni relations. It includes several key components:

- **User Interface:** A user-friendly interface that allows alumni to easily access and navigate the system, update their profiles, and engage with other members.
- **Communication Tools:** Integrated communication tools such as messaging, forums, and newsletters to facilitate interaction and information sharing.
- **Event Management:** Features for organizing and promoting alumni events, reunions, and webinars, ensuring active participation and engagement.
- **Fundraising Module:** A dedicated module for managing donations and fundraising campaigns, providing transparency and accountability.
- **Database Management:** A comprehensive database that stores and manages alumni information, ensuring data accuracy and security.
- **Analytics and Reporting:** Tools for generating reports and analyzing data to measure the effectiveness of alumni engagement strategies and identify areas for improvement.

#### 1.6 Significance:

The system will be of a high importance to the following:

**Department:** The University will keep track of its alumni so as to leverage on the benefits of easier monetary financing wherever need be. The University will also gain publicity due to its healthy relationship with its

alumni who will always passionately speak about it. They will also track the quality of their graduates out there in the job market and therefore tune the content delivered to the ongoing students.

**Students:** The students will enhance their chances of getting internships and employment opportunities due to the connections with the alumni. They will also enhance their soft skills through mentorship and career guidance by the alumni.

**Alumni:** The Alumni will keep connected with a batch of their old classmates so as to leverage on the opportunities created amongst them. They will get updates of the latest information and news from the institution.

## **2: Literature Survey**

### **2.1 Introduction:**

- **Alumni Engagement and Communication:** Strategies and techniques for engaging alumni through online platforms. Effective communication channels and tools for alumni outreach. Personalization and customization in alumni communication.
- **Alumni Database and Directory Management:** Data management techniques for maintaining an alumni database. Alumni directory design and functionality. Privacy and security considerations in managing alumni data.
- **Event Management and Reunions:**
- **Planning and organizing alumni events and reunions** through online platforms. Event promotion, registration, and ticketing systems for alumni gatherings. Alumni event success stories and best practices.
- **Career Services and Job Placement:** Integration of career services and job placement features in alumni portals. Alumni mentoring and networking opportunities for career advancement. Alumni involvement in internships, job fairs, and recruitment activities.
- **Technology and Frameworks:** Evaluation and comparison of different web frameworks for building alumni portals. Use of technologies like HTML, CSS, Python, Flask, And Excel for alumni platforms. Scalability, performance, and security considerations in portal development.
- **Case Studies and User Experience:** Case studies of successful alumni portals and their features. User experience design and usability studies for alumni portals.

### **2.2 Literature survey of methods/algorithms/published paper:**

#### **2.2.1 Makerere University Convocation**

Makerere University convocation is an association that brings together all the alumni and current staff of Makerere University. It derives its mandate from the Universities and Other Tertiary Institutions Act, 2001 (As Amended In, 2003 And as Amended In, 2006).

This association has an online platform where members can register. This platform offers information about the Makerere University Convocation such as vision, mission, principles, objectives and activities. It also allows for members to register and make donations to Makerere University.

However, the online platform doesn't allow for most of the principles of the Makerere University Convocation to be realised. Principles such as freedom of expression can't be achieved without a seamless mode of communication amongst the various stakeholders. Another principle, Responsibility and accountability cannot be achieved on the current platform. All the accountability for any project is seen only

at the university and this undermines the efforts of those outside Makerere University to track their contributions to any projects.

In addition to unrealized principles, there are functionalities that are lacking in the system. These include; members cannot track the works of their monies on this platform (zero online accountability), members cannot contribute to a specific cause on this platform, members cannot interact with each other or even with students, students can only view the announcements and cannot harness opportunities for mentorship etc., the alumni cannot connect with persons that were in their classes and harness the opportunities shared with each other.

#### 2.2.2 Alumni.harvard.edu/

The Harvard Alumni Association (HAA) is an alumni association that maintains and enhances a highly engaged, vibrant community of the University of Harvard alumni and friends worldwide.

The HAA helps alumni connect with the University and with fellow graduates. This is achieved through a wealth of Club activities, continuing education programs, online services, and alumni events around the world.

This association has an online platform on which it carries out a section of its activities. These activities include bringing together alumni and associate members. Associate members are those persons that enrolled for a certificate, degree or diploma but didn't complete their education. These members can contribute to the various projects at Harvard University. The alumni are updated about the events that are happening around the university.

However, the alumni cannot view the current progress of the projects in real time i.e. there's no real time accountability. The alumni cannot engage with one another or even the students.

#### 2.2.3 WWW.MANCHESTER.AC.UK/CONNECT/ALUMNI/

"At Manchester we're proud to have the largest global alumni community of any campus based university in the UK, with many of the almost 480,000 former students in more than 190 countries, holding top positions in every imaginable field." a quotation from the University of Manchester website.

This platform doesn't perform any alumni engagement functionality!

#### 2.2.4 ALUMNI.MKU.AC.KE

It is an online portal for the alumni and current students of Mount Kenya University to follow up with activities within the institution. It intends to provide up to date information about the University to the current students, staff, alumni and the general public.

Its downside is that it is more of an abandoned project with the available information being last updated way back in 2013. Besides, the online system provides only basic information in form of announcements. It lacks

essential features required by an effective alumni management system like community development through alumni groups, employability features, mentoring, member registration and digital fund raising and live interaction between members.

Alumni societies have also recently begun working more aggressively with young alumni to provide professional networking opportunities. Programs targeted to bring young alumni together with a career focus, and with more established alumni, demonstrates a further service of an association. (Smith et al., 2019) The Mount Kenya University Alumni management system lacks possibilities of championing networking between its current students and the alumni.

#### 2.2.5 nus.edu.sg

This is an online alumni management system for the National University of Singapore (NUS). It is a central point of engagement between NUS students, staff and alumni. The system features include online event management, alumni community building, online member registration and electronic alumni card provided through a mobile application in same name of the system. The electronic card feature is perhaps the best component of this system because it helps the alumni to get discounts whenever purchasing from selected collaborating retailers. This is a kind of pay back to the alumni for their contribution to the institutional cause.

However, this system lacks online fundraising feature that can greatly improve the benefits derived from it by its stakeholders. Statistics show that gifts from alumni comprise 26.9% of all gifts to higher education. Statistics also affirm that this philanthropic support often is a critical element in institutional finance. The lack of such a vital feature from the NUS Alumni management system constrains the financial resources the institution derives from its alumni.

#### 2.2.6 The University of Pretoria Convocation

This is an Alumni Association for the South African based University of Pretoria. It has an online presence in form of online website at <https://www.up.ac.za/alumni>. The association is currently headed by Dr Hans Hinner Ko`ster whose term of office started on October 31st 2019 running through to October 30th 2024.

The online system offers a number of benefits to its alumni which include the following;

##### ◆ Library Access

Alumni of University of Pretoria are presented an opportunity to access the university library resources. With an interesting quote on the platform” Readers become Leaders”, the alumni are offered a number of reading avenues both through online and offline resources at specified locations of the institute. These include; an access card giving alumni access to the pedestrian gates on the Hatfield Campus Library,

access to the Merensky and other University libraries, access to electronic journals in the Merensky Library, the right to borrow up to 4 books for a period of 14 days, and Photocopies at student tariffs. However, all these benefits don't come out of blue. The Pretoria department of University Relations states that one must reach a fee of R700 per annum (cash or debit order of R50 per month plus library fee of R100 per annum). This amount is basically considered a donation to the development of university projects and thus a mode of fundraising. The annual fees are really good for the institution but a drawback to some users as one forgetting to renew the subscription causes them frustration when they try to access resources they have been using.

#### ◆ Career Portal

This is a center for employment resources to the alumni of the University of Pretoria. It brings job related information to the door step of the institution's alumni and thereby saving them a burden of borrowing through various recruitment service providers. It is quite secure in a way that employment opportunities are uploaded through the portal administrator thus reducing online fraud and scam. However, the system is lacking in a sense that potential candidates for a given job have to navigate to the individual employer's site to conduct the actual application for the identified opening on the portal. The services could have been better if the alumni had an opportunity to develop CVs integrated within the system accounts such that the admin searches through the alumni list, identify those qualifying for the post, notify them by email and then whoever is interested in the post just click approval button and the application is sent to the recruiting agency. The proposed system intends to offer such flexibility with the goal of reliable alumni services at reduced effort and time.

#### ◆ Membership/ Alumni Groups

It has an integrated feature for supporting alumni groups. This allows the alumni to connect with people of the same background relations with the University and also facilitates the communication between alumni. However, the system lacks an inbuilt feature to support alumni groups as currently the groups are supported through an integration with a private vendor called Gradual that provide software solutions to associations.

### **2.3 Literature Survey Technical Specifications Used in the Project**

In the development of the Online Alumni Management System, several key technologies were employed to ensure a robust and user-friendly platform. Python was utilized for its versatility and efficiency in handling backend processes, including data manipulation and server-side scripting. Python's extensive libraries and frameworks, such as Django and Flask, facilitated rapid development and integration of complex functionalities.



Excel was employed for data analysis and management, leveraging its powerful features for organizing, visualizing, and interpreting large datasets. This tool was particularly useful in the initial stages of data collection and analysis, providing a straightforward interface for handling alumni information. HTML and CSS were fundamental in crafting the front-end of the system, ensuring a responsive and aesthetically pleasing user interface.

HTML provided the structural framework of the web pages, while CSS was used to style and layout the content, enhancing the overall user experience. The combination of these technologies allowed for the creation of a comprehensive system that effectively bridges the communication gap between the university, its alumni, and current students.

## **2.4 Comparative Study of All the Methods**

A comparative study of the various methods employed in the development of the Online Alumni Management System reveals distinct advantages and limitations associated with each approach. Python, with its robust libraries and frameworks, offered significant advantages in terms of backend development, enabling efficient data processing and server-side scripting. Its integration capabilities with other technologies made it a versatile choice for this project.

Excel provided a reliable tool for data management and preliminary analysis, though its limitations in handling dynamic web-based interactions necessitated the use of more advanced technologies for the final implementation. HTML and CSS were indispensable for front-end development, ensuring that the system was both functional and visually appealing.

However, these technologies alone were insufficient for creating interactive and dynamic web applications, highlighting the need for complementary scripting languages such as JavaScript. The comparative analysis underscores the importance of selecting appropriate technologies based on their strengths and limitations, ensuring a balanced and effective approach to system development. This holistic integration of various methods and tools was crucial in achieving the project's objectives, providing a seamless and efficient platform for alumni management.

### 3: SYSTEM DEVELOPMENT

#### 3.1 Block diagram:

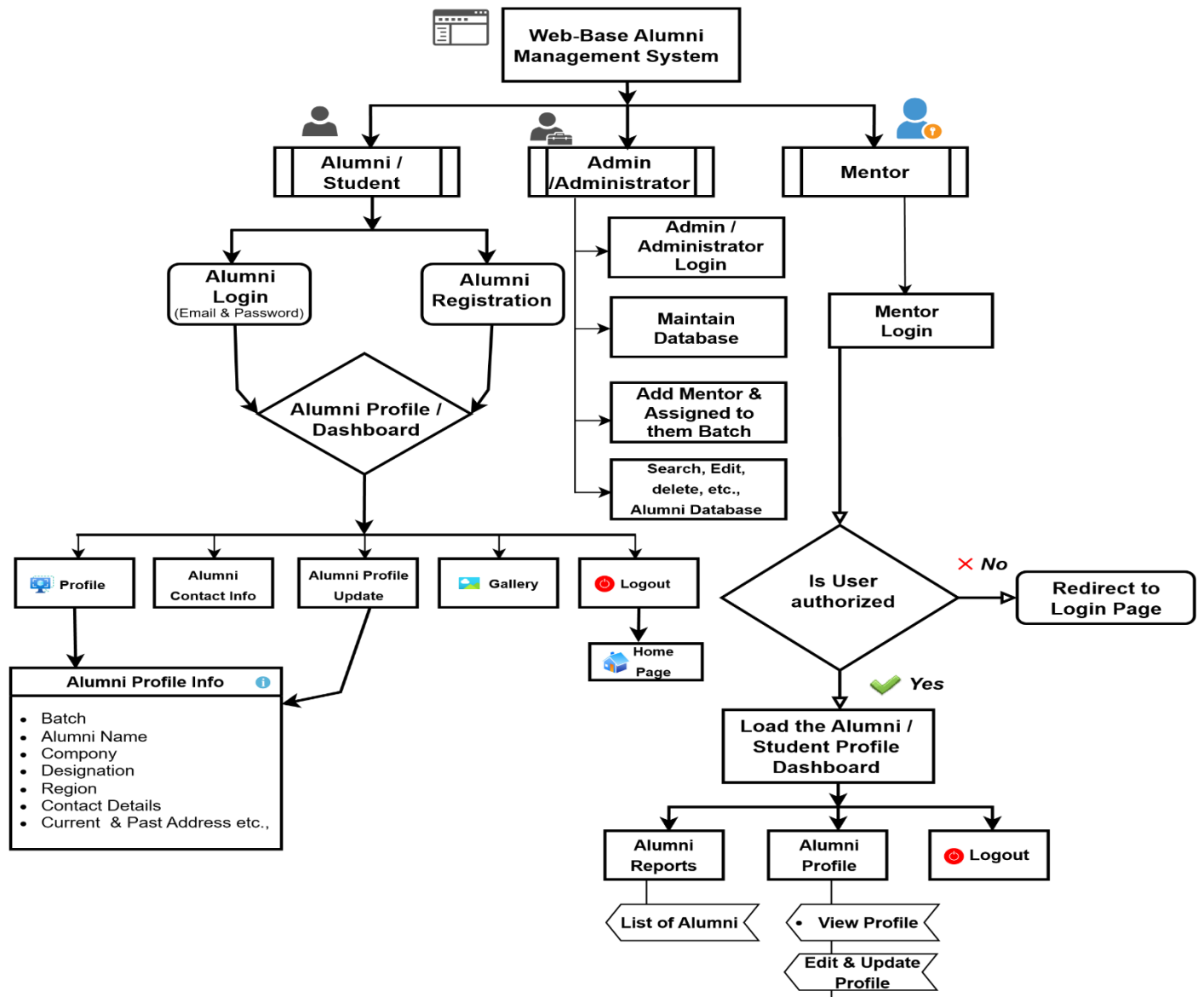


Fig. 3.1: System Overview

## 3.2 Flow diagram

### 3.2.1. Admin Login:

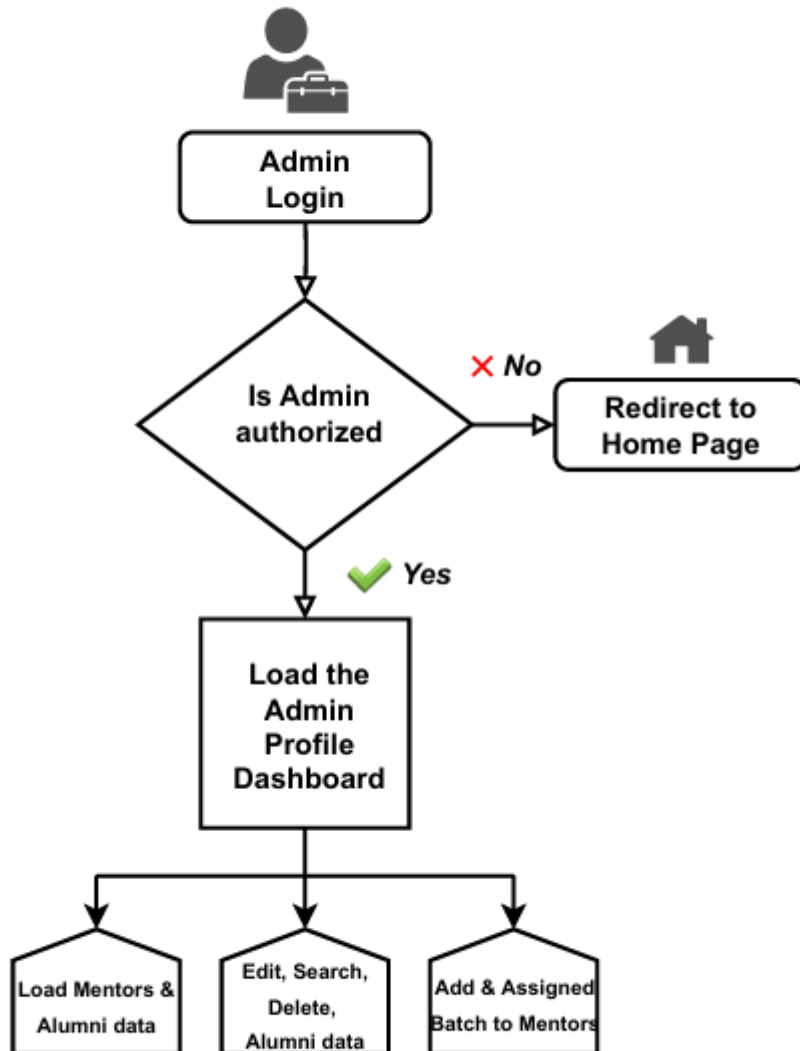


Fig. 3.2(a): Admin Login

### 3.2.2. Mentor Login

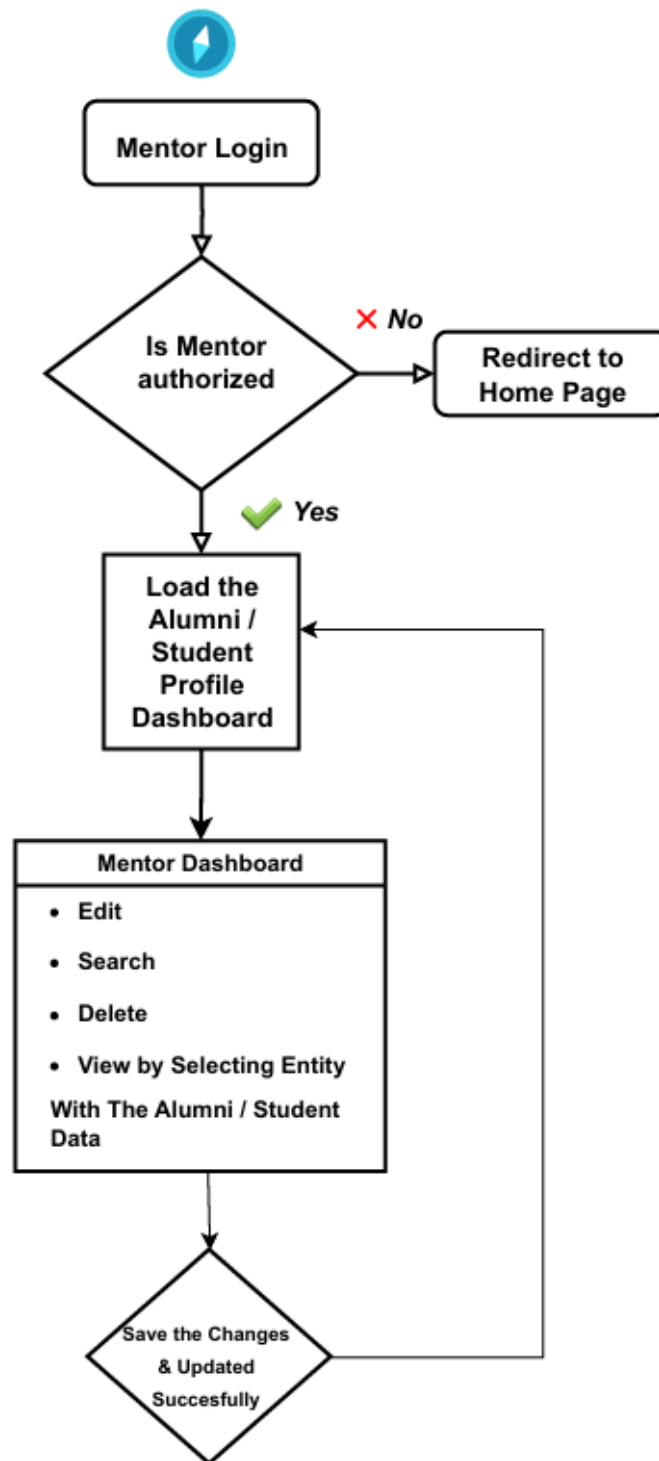


Fig. 3.2(b): Mentor Login

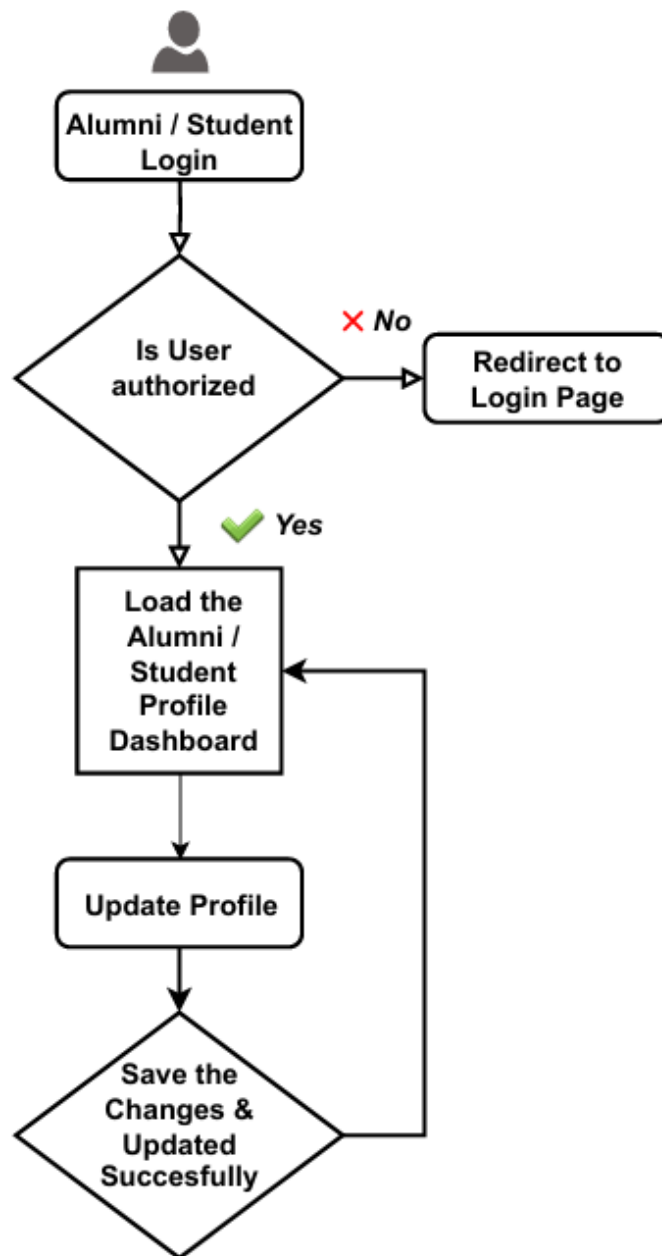


Fig. 3.2(c): Alumni Login/Signup

### 3.3 System Architecture

**Users:** Make requests to the server and receive responses.

**Web Server:** Hosts the application's various layers which are:

**Presentation Layer:** Users interact with the application through the presentation layer (web browsers).

**Application Layer:** Implements the business logic. Interacts with the data layer to process requests and responses.

**Data Layer:** Handles domain data and provides persistence and retrieval services for the database.

**Database:** For data storage.

**Web Services:** Interaction with other applications.

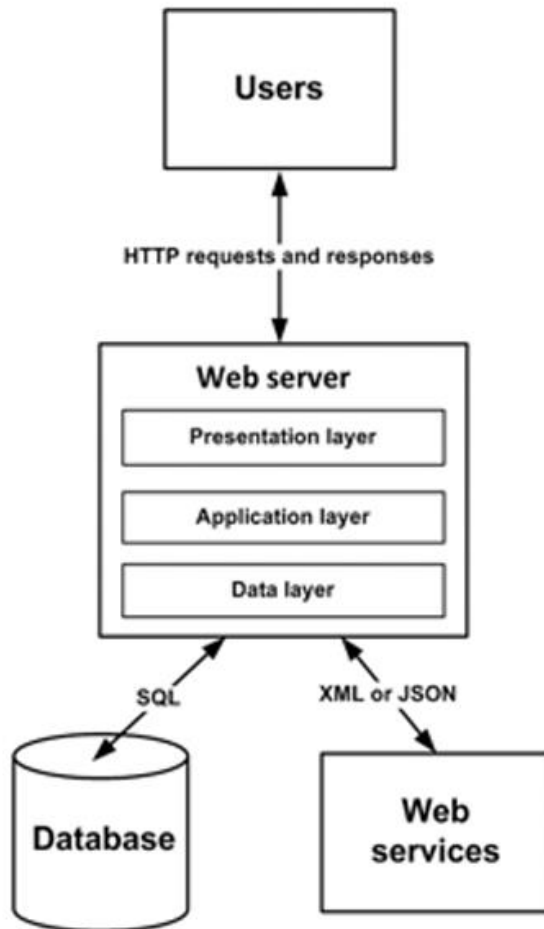


Fig. 3.3: System Architecture

### 3.4 Requirements Analysis

In the previous section, data analysis was done. In this section, user, functional, nonfunctional and system requirements were derived from the analyzed data.

#### User Requirements

There are three groups of users:

**System Administrators:** They have a higher understanding of how the system works. System administrators also have more privileges compared to other users.

**Project Managers:** They have privileges that allow them to update project's progress such that the users of the system know what's on ground in real time.

**Registered Users:** They are categorized into alumni and students. Alumni are the former students of the institution.

## Functional Requirements

These requirements describe what the system should do basing on the actors' possible actions. The functional requirements of the system include:

- The registration module should be able to allow all new users to register so as to create accounts.
- The authentication module should be able to allow registered users to login to their created accounts.
- The messaging module should allow registered users to interact with each other.
- The messaging module should allow registered users to create groups for interaction with peers.
- The mentorship module should allow registered users to be mentored.
- The jobs system should allow posting of job and internship offerings.
- The blogging module should allow registered users to create and read blogs.
- The project management module should allow project managers to update information about the project such as when a particular project is completed.
- The project management module should allow registered users to view and make contributions to projects.
- The financial module should be able to facilitate contributions to projects through mobile money.
- The administration module allows the administrator to manage users and perform other administrative tasks.

## Non-functional requirements

These requirements specify the criteria that can be used to judge the operation of a system rather than specific behavior. They define system properties and the constraints of the system. The system must show

software quality attributes such as accuracy, performance, cost, security, modifiability and usability. The non-functional requirements include:

- The system must provide logon security at the application level.
- The system should process user queries and return responses in 30 seconds.
- The system must be operational seven days a week, 365 days a year.
- The system should be responsive that is to say, it should provide immediate feedback to the users.
- The system should provide forms of data capture during registration and login in.
- The system should be easy to maintain and adoptable to users.
- All transactions must have audit trails.
- The system must create an error log file that includes the error type, description, and time.

### Software Requirements

Compatibility is a requirement to ensure that our system has the ability to run and perform its required tasks properly. The table below points out the minimum requirements for the system.

Software	Minimum System Requirements
Operating system	All Windows Operating Systems and some distros of Linux e.g. Ubuntu
Database	Excel
Browser	Google Chrome, Mozilla fox, Opera mini, Edge
Security	System authentication

Table 3.1: Software requirements of the system

### Hardware Requirements

The system required performing its required tasks properly on hardware facilities. We carried out research in various areas using different kinds of hardware facilities like laptops, smartphones and desktops to ascertain the right hardware for optimal system performance.



<b>Hardware</b>	<b>Minimum System Requirements</b>
RAM	2GB
Disk Space	10GB

Table 3.2: Hardware requirements of the system

## 4: RESULT DISCUSSION

### 4.1 RESULT:

Alumni are valuable assets of the institutions of higher education. Thus, the more alumni communication is intact the greater opportunities for feedback and knowledge development. An alumni portal facilitates the promotion of research, the exchange of experience, in addition to providing personal, professional and academic networking. The developers decided to create the Alumni Portal System to help the university to track the alumni and to gather their information thru online portal without hassle.

Alumni can use their own personal computers devices to add, monitor and update their current status. In view of the above, the developers would like to recommend that additional verification procedures be made to ensure that Only bonafide alumni can register in the system. Main innovations encompass the inclusion not only of the alumni, but also the current students to the alumni portal, therefore, the link with the university is strengthened from the beginning with a tendency to bolster the bond between the students (current and alumni) and the educational institution

### 4.2 Analysis Parameters

In the context of system study, analysis parameters are critical for understanding the current state of a system and identifying areas for improvement. These parameters provide a structured approach to evaluating the system's performance, efficiency, and effectiveness. Here, we delve into the key analysis parameters that are essential for a comprehensive system study.

#### 1. Functional Requirements

Functional requirements define the specific behaviors or functions of a system. These include the tasks the system must perform to meet the needs of its users. In the context of an Alumni Management System, functional requirements might include user registration, profile management, event notifications, and communication tools. These requirements ensure that the system provides the necessary features to support its intended use.

#### 2. Non-Functional Requirements

Non-functional requirements describe the system's operational characteristics. These include performance metrics, security standards, usability, and reliability. For an Alumni Management System, non-functional requirements might specify the system's response time, data encryption methods, user interface design, and uptime guarantees. These parameters ensure that the system operates efficiently and securely under various conditions.

#### 3. System Interfaces

System interfaces refer to the points of interaction between the system and its users or other systems. This includes user interfaces, application programming interfaces (APIs), and hardware interfaces. Effective

interface design is crucial for ensuring seamless communication and data exchange. In an Alumni Management System, interfaces might include web portals, mobile applications, and integration with social media platforms.

#### 4. Data Requirements

Data requirements outline the types and structures of data that the system must handle. This includes data input, storage, processing, and output. For an Alumni Management System, data requirements might encompass personal information, academic records, event details, and communication logs. Proper data management ensures that the system can store and retrieve information accurately and efficiently.

#### 5. User Requirements

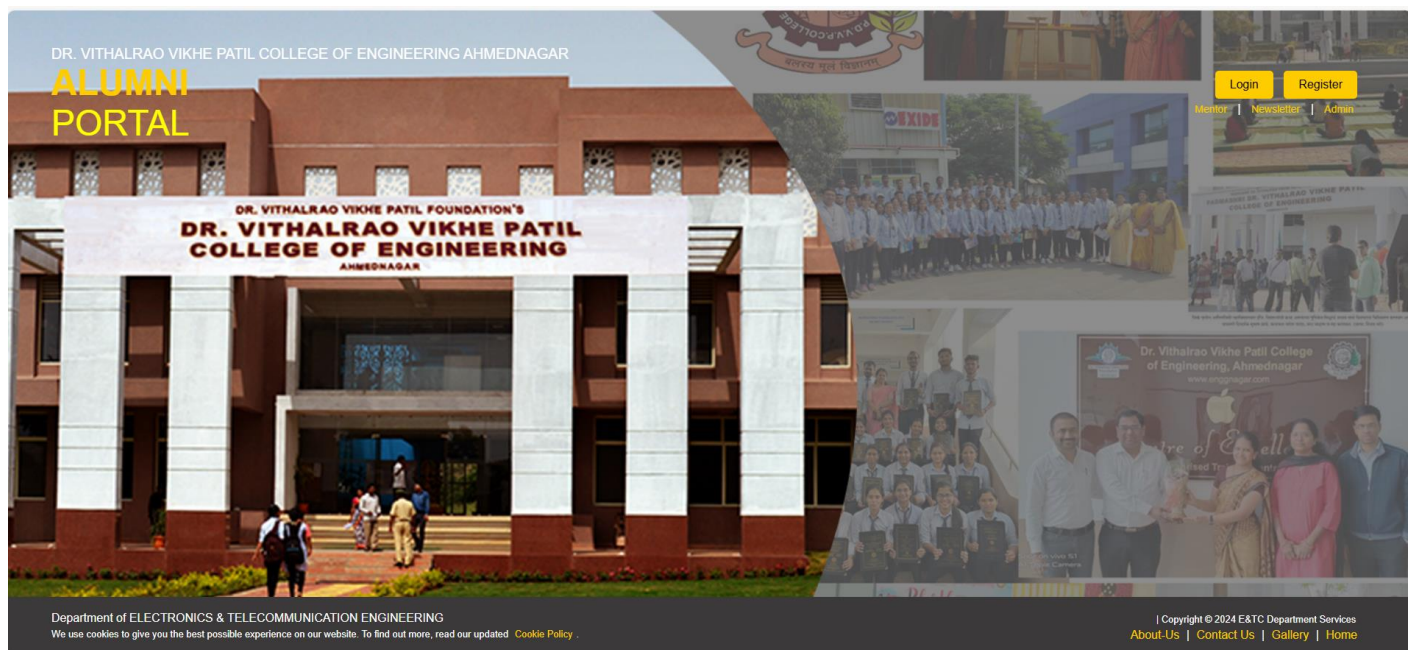
User requirements focus on the needs and expectations of the system's end-users. This includes usability, accessibility, and user satisfaction. Understanding user requirements is essential for designing a system that is intuitive and easy to use. For an Alumni Management System, user requirements might involve easy navigation, personalized dashboards, and responsive customer support.

#### 6. Performance Metrics

Performance metrics are quantitative measures used to evaluate the system's efficiency and effectiveness. These metrics can include response time, throughput, error rates, and resource utilization. For an Alumni Management System, performance metrics might assess the speed of data retrieval, the number of concurrent users supported, and the system's ability to handle peak loads.

### 4.3 Project Showcase:

#### Home Page



Creation of Department Alumni Portal

**Admin Dashboard:**

### Admin Dashboard

Welcome, Aniket (Assistant)

[Logout](#)

[Add Batch Mentor](#) [View Mentors](#)



[Manage Home Decor](#)

### Student Records

View all

[Search](#)

[Delete Student](#)

Batch	Name	Mobile	Email	State	District	Subdivision	Pia	Country	Company	Sector	Area	Designation	Domestic	International	LinkedIn	Facebook	Instagram	Profile Picture
2025	yadynesh Dhangar	9623473132	Yadnesh@gmail.com	Kolgaon	Jalgaon	Bhadgaon	424103	India	Flares PV Solar Pvt. Ltd. Ahmednagar	Hardware	India	Business Associate Development for Sale	India	India	<a href="https://www.linkedin.com/in/yadynesh-dhangar-24500026a">https://www.linkedin.com/in/yadynesh-dhangar-24500026a</a>	<a href="https://www.google.com">https://www.google.com</a>	<a href="https://www.google.com/search">https://www.google.com/search</a>	
2025	Aniket Dandge Gate Exam Form	9860142240	aniketdandge11@gmail.com	Paithan	Samhajangar	paithan	4444445	India	hella	IT	Pune	Developer	maharashtra	India	nan	nan	nan	

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## Signup Page:

### Registration

#### Personal Details

Full Name

Email

Mobile Number

Batch

Password

Profile Picture


No file chosen

#### Address

City/Village

Enter State

## Mentor Registration:-



Full Name \*

Email \*

Mobile No \*

Batch Assigned \*

Password \*

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## User Profile page

### User Profile



yadnynesh Dhangar

#### Personal Information

📅 Batch: 2025

✉ Email: Yadnesh@gmail.com

📞 Mobile: 9623473132

🏢 Company: Flares PV Solar Pvt. Ltd. Ahmednagar

📋 Designation: Business Associate Development for Sale

📍 Current Address: India

📍 Address: Kolgaon Jalgaon Bhadgaon 424103 India India

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## 5: Conclusion

### 5.1 Conclusion

The Alumni Management System is a valuable tool for educational institutions to maintain strong connections with their alumni network. This Alumni Management System project is a resounding success, transforming the way the college community engages with its alumni.

The system provides a seamless platform for graduates to reconnect, share their achievements, and actively participate in the college's ongoing growth and development. With the alumni gallery, graduates can proudly showcase their accomplishments, inspiring current students and fostering a sense of pride within the college community. The forum and chat functionalities have facilitated lively discussions and valuable knowledge sharing, promoting mentorship and networking opportunities among alumni.

The comprehensive course list and job portal have empowered alumni to continue their learning journey and explore exciting career opportunities within the alumni network. The events page has become a central hub for alumni reunions and gatherings, fostering a strong sense of belonging and camaraderie among graduates.

### 5.2 Future Scope

- This alumni portal would provide common platform for interaction of alumni, students and college altogether.
- Portal provides dynamic feature such as active user status, personal chatting messaging.
- Virtual alumni meetings.
- Job posting
- Internships.
- Industry sponsored projects.
- Entrepreneurial guidance.
- Online expert lecture videos

### 5.3 Advantages

- It is completely automated in handling the department database.
- This system provides centralized database maintenance.
- This system provides easy access to the particular students account or his complete details.
- This system provide student to navigate through the application for more information in a most secure manner.

## **5.4 Application**

- It is completely automated in handling the department database.
- This system provides centralized database maintenance.
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