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## ALUMNI MANAGEMENT SYSTEM USING LINKEDIN API

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**Abstract:** This project is aimed at developing a Repository and each Engine for alumni of the college, which is of importance to a college. The Alumni Information Database is a Web application that can be accessed throughout and students can connect to the alumni of the college. The Alumni Management System is a comprehensive software solution designed to streamline and enhance the management of an institution's alumni network. This system leverages modern technology to create a seamless platform for alumni engagement, communication, and data management. It serves as a bridge between the institution and its graduates, fostering a sense of community and facilitating meaningful interactions. **Alumni Directory:** The system maintains a centralized database of alumni roles, containing information such as contact details, educational history, career achievements, and personal interests. **Event Updates:** Alumni can be notified of upcoming reunions, networking events, and seminars in the news section. Event details, including date, time, and location, are easily accessible. **Communication Tools:** The system provides various communication channels, including email, newsletters, and discussion forums, allowing administrators and alumni to stay connected. Alumni can also connect for professional networking. **Event Updates:** Alumni can be notified of upcoming reunions, networking events, and seminars in the news section. Event details, including date, time, and location, are easily accessible. **Communication Tools:** The system provides various communication channels, including email, newsletters, and discussion forums, allowing administrators and alumni to stay connected. Alumni can also connect for professional networking. **Job Placement:** Alumni can post job opportunities, and recent graduates can access these listings to find suitable employment within the alumni network.

**Index Terms - Alumni, Management System, Database for College Alumni.**

### I. INTRODUCTION

This Alumni Management System project aims to build a system that will be able to manage the alumni data of students and provide easy access to the same. Contact between alumni can be used to forge business connections and to gain references or insight into a new field. New college students will be initially given a student login ID. Access to the system can help them in building connections to help them in their projects or for placements.

The system will list all college students as alumni on their graduation and their account status will be transferred from the student module to the alumni module. Alumni will also be able to provide public posts on the system about possible job opportunities or other college-related news. The system will also have privacy features. Users can determine what information they want to share and also whom they want to share it with.

Alumni will also be able to provide public posts on the system about possible job opportunities or other college-related news. Since it is unlikely that alumni will check the system frequently the system will be able to collect all public posts and create a newsletter that can be emailed to all alumni. The system will also have privacy features. Users can determine what information they want to share and also whom they want to share it with. For example, users can choose to share their mobile number with alumni who graduated in the same year as them.

Alumni Portal is a web-based application that stores the data of old students, events, and job posts. The alumni website of a college keeps a person in track with the events that are organized by the college and informs the members when some important events will occur that have not been organized by the college.

Currently, the alumni association is maintaining, updating and managing records manually. This does not allow efficient data management and retrieval processes. It is a tough task to communicate with members for renewals, events, meetings etc. The past pupils who are interested in joining the alumni has to contact an alumni committee member to get an alumni form, fill the form and submit back to complete the registration process. Some of them think the process to become an alumni member is inconvenient. Thus the committee needs an easy comprehensive system to manage the day to day aspects of the association. Further they expect to connect and interact with members, grow and retain the membership, increase participation in events through the new system. Alumni records over the history of the school have been maintained in a variety of methods. Communication is critical for the association to inform members and others about its goals, activities and motivate them to take an interest in the association and the school. In the conventional process the alumni are informed about membership renewals, meetings and events by sending individual letters through mail. This method is time consuming, costly and the response rate is low. The existing website provide information only about the school through one-way communication and it has little room for future activities and interaction between the members. The members

have no or slight chances to join in decision making process by giving their feedback to align services with existing and emerging needs.

In era of digital age, alumni association should move its strategies to establish a more visible and impactful role within the University and among its alumni (RJ Valentino, 2011). Considering alumni's interest in connecting to the University, the increasing value of their diplomas and a particular desire for business and career networking (RJ Valentino, 2011) are desirable. The researcher should emphasize its study to understand the value to alumni in being members of association. The outcomes of the study should support alumni to get the factors which improve sustainability of alumni associations. The literature review will include: Review to understand, analyse and develop innovative Alumni Operation Management Framework Innovative Alumni Operation Management Framework (i-AOMF) Innovative Alumni Relationship Management System (i-ARMS).

The former methods of data preservation were tabular forms, excel sheets, documentations, etc. These system limits multiple accessing, easy modification in the data, searching for records. As we are moving towards digitalization, techniques of data management have been improved. One of these methods include, database management system. The database management system works on the principle of data-keeping using computerized technologies.

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The communication is another key factor which is important to keep the satisfaction and engagement of alumni's members. One way communication is just to persuade from one to another but two way communications is more effective (Szondi, 2008). With current traditional way of alumni association participation, it lacks of the effective two ways communication. The writer thinks that the poor performance of this factor impacts tremendously to the sustainability of alumni association. Communication needs a high effective result; however there are factors which occur during communication process such as environment, objective and feedback. Feedback from the receiver is an important component of communication process. It measures the result of each communication (Thitikulcharoen,2011). The content of communicate messages can be classified in three categories, e.g. 1) Cognitive content 2) Affective content and 3) Skills content (Promwong, 1998). Alumni surveyed nationally consistently report that the reputations of university the increasing equity of their diplomas are key motivators for connectivity (Valentino, 2011). According to Laister, Koubek, (2001) Laister, Koubek Laister, Koubek Laister, Koubek the motivations for users to collaborate are 1) Openness 2) A participatory 3) A high level of self- reflection. Another research from Omar, Kamaruzaman and Harniyati (2010), concluded that motivation for employees to work in organization is a reward and it is considered as one of the most important factors to retain employees and it can reflect the same between institution and alumni. One of the literature reviews (Ali Kara and Oscar W. Deshields, Jr., 2004) is the study on the relationship between business student satisfaction and their intentions to stay in a college or university. The study use empirical data and a conceptual model, the result indicates that experience of the students affected their satisfaction positively. The other effect of this study is that the educational institutions that have a consumer-oriented foundation may have a chance to satisfy their students' needs and wants effectively.

## II. OBJECTIVE

The earlier versions were based on traditional methods, it was not secured for registration purposes, and managing the user profile was not properly done. This traditional manual system had very little security i.e. anyone can take or lose the records. Therefore, we used the modern internet method so that no above problems, which were faced by traditional manual system, were in our system. However, the main purpose is the college-level events; it means the events, which occur in the college by the councils. Therefore, we are developing this small-scale college-level application so that any kind of event can be managed by the admin and it will create a common platform for the users and alumni students where they can be able to see all the events in the college and help current students with all the doubt regarding any college problem.

Alumni help institutes strategically build and manage their alumni network, by facilitating engagement, community building, networking, communications, and giving back.

Alumni connections are important resources that contribute to university evaluation. Even though alumni connections represent networks, they have been mostly evaluated as tabular data (e.g. by providing average salary, employment rate, etc.) This ironically disregards all qualities of a network, from which an alumni network gets its name. It is desirable to evaluate an alumni network as a network, because networks have the potential to provide very insightful information. Evaluation of alumni networks as a network has not been feasible in the past due to data fragmentation (neither universities nor companies are willing to share meaningfully significant data in its entirety).

### A. EXISTING SYSTEM

The former methods of data preservation were tabular forms, excel sheets, documentation, etc. This system limits multiple access, easy modification of the data, and searching for records. As we are moving towards digitalization, techniques of data management have been improved. One of these methods includes a database management system. The database management system works on the principle of data keeping using computerized technologies.

### B. DISADVANTAGES IN THE EXISTING SYSTEM

These current methods though provide global access considering cloud-based Word documents such as Google Docs, Microsoft Word, etc. which have to be modified manually by an individual. This results in time consumption as well as a lack of consistency in maintaining the data. The limitations of the current methods are that they have to be updated regularly to avoid loss of data and it becomes inconvenient for every user to do the same.

### C. PROPOSED MODEL

The Alumni Management System is a system that manages the records of the students who are a part of the respective institution or were a part of the institution. Alumni management is important as it keeps the records of the previous students to keep them in touch with the institution. The alumnus can be a help to the college in their expertise files of study from the outside world guiding students and updating them about the current happenings. It particularly concentrates on the graduated students of the institution and not on the students who are currently a part of the institution.

### D. BENEFITS OF PROPOSED MODEL OVER EXISTING SYSTEM

The database management system is a collection of particular data depending on the requirement. It is easier to alter and implement changes in the existing data. As the new software technology is rising, we can store this data conventionally and effectively using these software and interfacing them in a proper functional order that can be accessed remotely

### III. PROBLEM STATEMENT

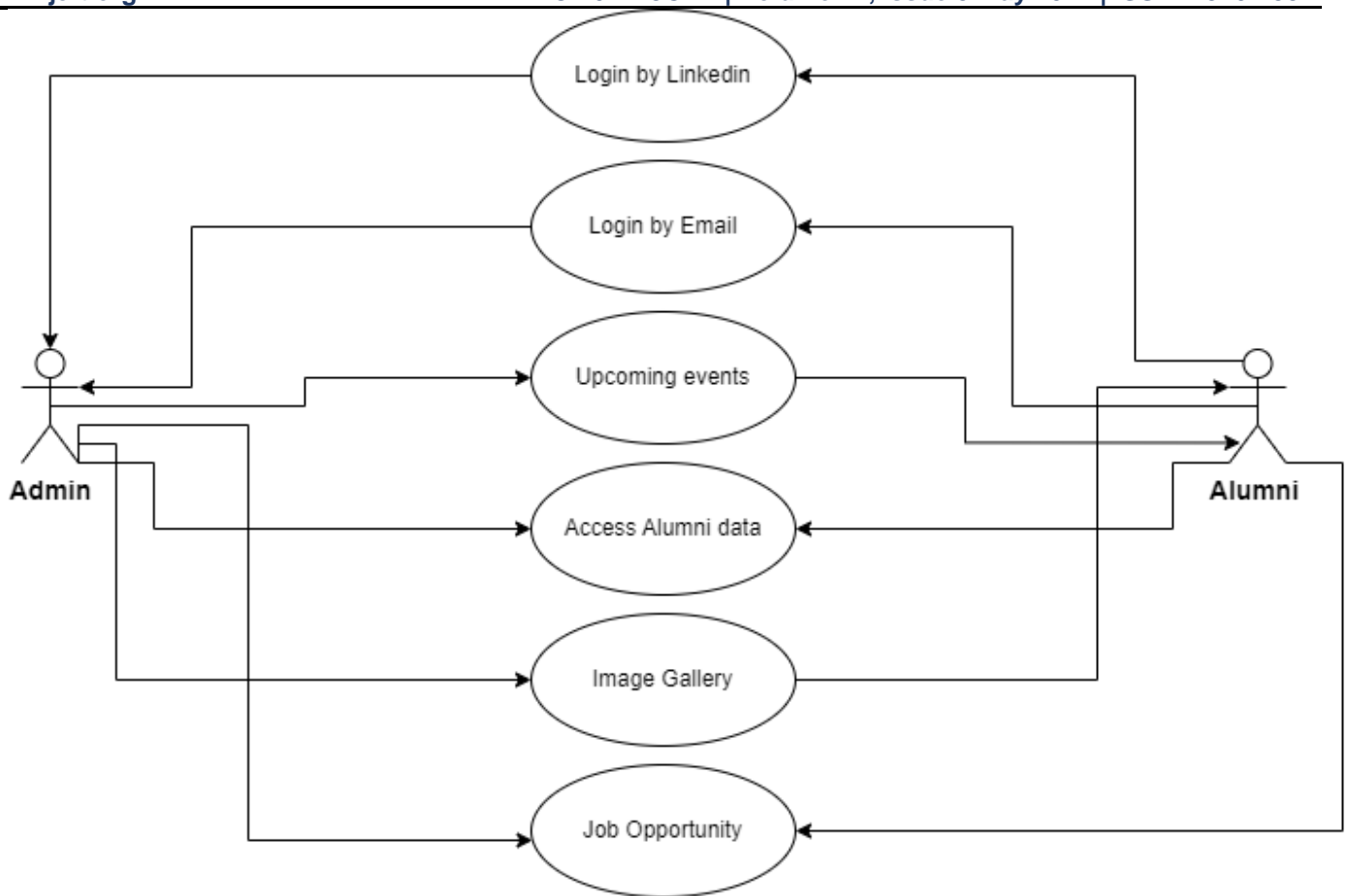
Educational institutions and alumni associations face several challenges in effectively managing their alumni networks. These challenges are often related to manual processes, limited communication channels, and outdated data management practices. Therefore, there is a need to develop an Alumni Management System to address the following key issues:

- a) **Inefficient Data Management**  
Many institutions still rely on outdated spreadsheets or paper records to maintain alumni data. This leads to data inconsistencies, inaccuracies, and difficulty in keeping information up to date.
- b) **Poor Communication**  
Maintaining active communication with alumni is a daunting task, especially when relying on traditional methods like email or physical mail. Alumni may miss out on important updates, events, or opportunities due to ineffective communication channels.
- c) **Limited Engagement**  
Alumni engagement is essential for the growth and success of both the institution and its graduates. However, without a dedicated platform, it's challenging to foster a sense of community and encourage alumni to participate in networking events, mentorship programs, or fundraising initiatives.
- d) **Manual Event Management**  
Organizing alumni reunions, seminars, or networking events can be time-consuming when done manually. It often results in lower event attendance and missed opportunities for alumni to connect.
- e) **Privacy and Security Concerns**  
Handling alumni data, especially personal and financial information, poses privacy and security risks. Ensuring the confidentiality and security of this data is crucial to maintaining trust within the alumni community.

### IV. RESEARCH METHODOLOGY

#### A. PROPOSED SYSTEM

The Proposed System of this Alumni website was to provide a platform for college students to connect, communicate, and share information with each other and with alumni. They can ask doubts regarding college. The main purpose was to facilitate seamless communication within the college community, enabling students to stay updated on campus events, collaborate on academic projects, and form social connections. The ultimate goal is to foster a sense of community and improve the overall college experience for students and alumni. By providing a platform for communication and information sharing, the app aims to enhance collaboration, academic success, and social interactions among students within the college campus. The main advantage of this project is it will connect old students and new students of the college. Old students can view current activities happening in the college. This Alumni Portal website Has various pages like a gallery, course list, Alumni list, Gallery, forums, and Users.



*Use Case Diagram*

## B. PROJECT MODULES

### 1. ADMIN MODULE

This module is the backend database part made for the admin i.e. for the college management team where they can see and edit information add upcoming events and other features given in the portal.

The admin will be responsible for creating new login ID's for incoming students. The admin will also have to ensure that graduating students are shifted into the alumni module. The admin will also have to browse the site to ensure no objectionable content is posted. The admin will also be notified about any complaints from users.

### 2. STUDENT MODULE

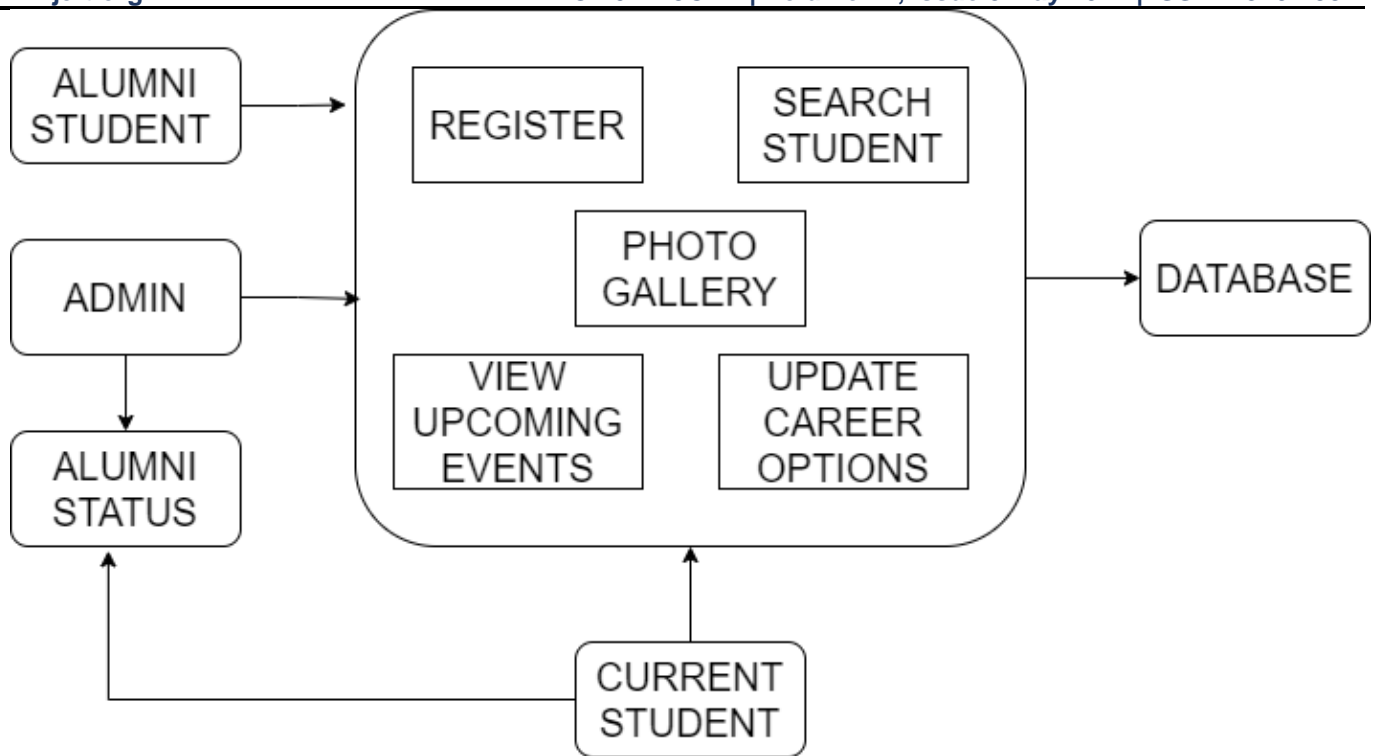
This module is the frontend for the portal which all students and alumni can use for updates and other features of the portal. The student module can be used to browse through the site and access alumni information. The students will be able to chat via the system with the alumni, if the alumni wish to share email and mobile numbers this can be done through the chat. The student will have to seek admin approval before posting anything on the site.

#### Implementation

**Registration Page:** We designed a simple yet comprehensive registration page that captures essential user information, including name, Branch, Email Id, Gender, Batch, Course Graduated, Image, Currently Connected to. The page also includes password creation account security.

**Login Page:** The login page was meticulously crafted for ease of access. It features clear, user-friendly elements for entering login credentials, including email and password fields. Additional functionality, such as password recovery options and error messaging, was implemented to enhance the user experience.

**Responsive Design:** Both the registration and login pages were designed with responsive layouts to ensure accessibility on various devices, including desktop computers, tablets, and mobile phones.



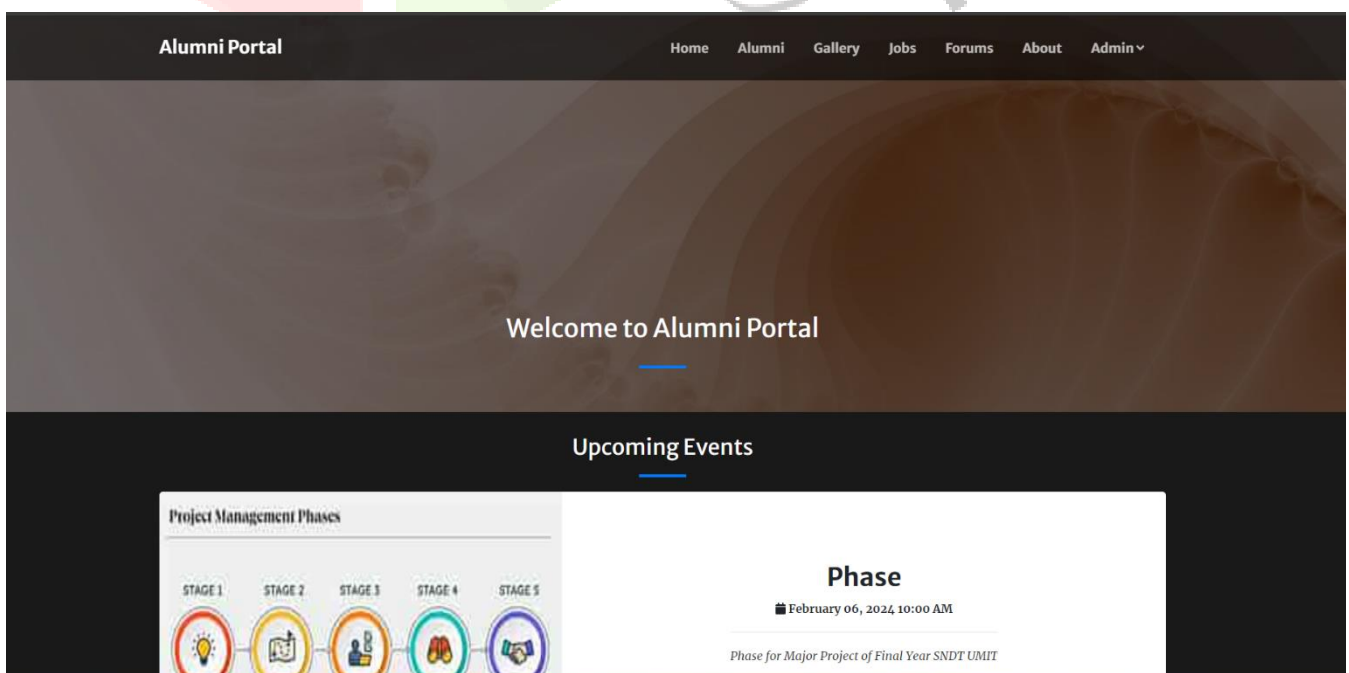
Data Flow Diagram

Alumni Portal: There are various Pages in the Alumni Portal like Gallery, Course List, Alumni List, Events, Forums, and Users. In the Gallery, the various photos of the event conducted will be uploaded so that alumni can directly access them as per their requirements.

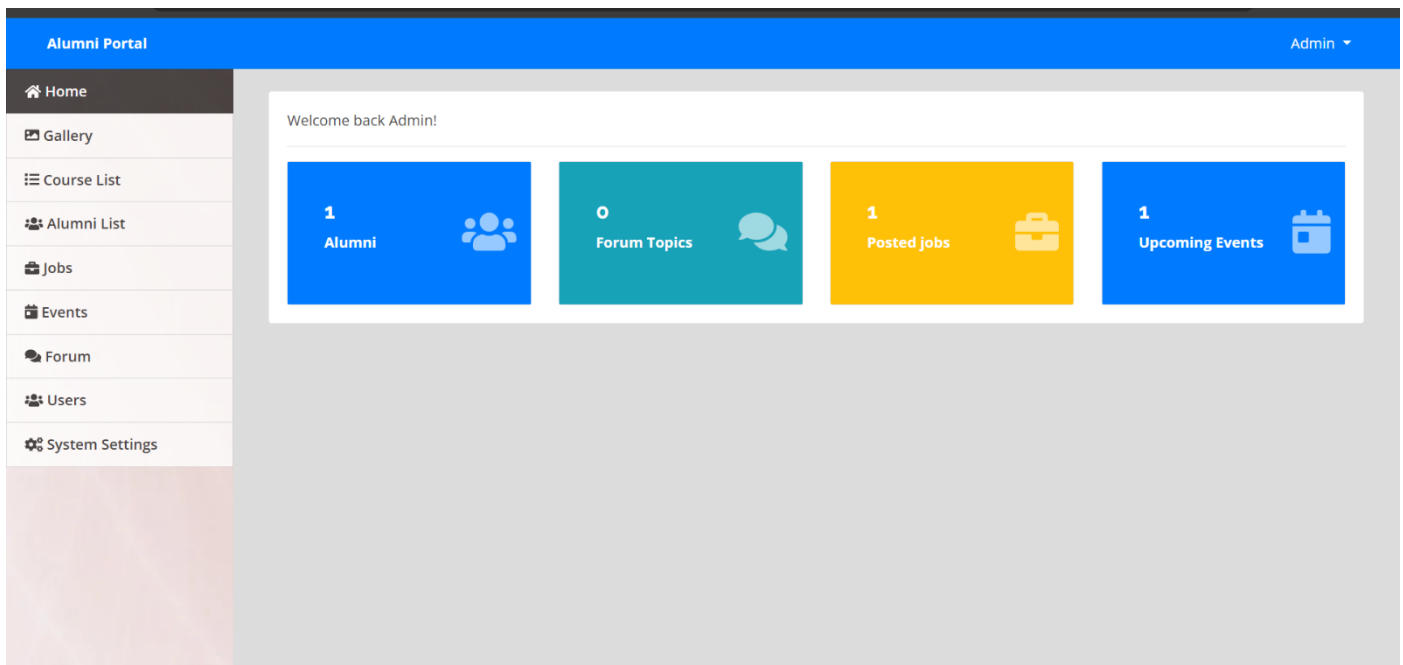
Alumni Module: An alumnus of the college will be able to access other alumni information and also will be able to have a group chat with other alumni. An alumnus can post any information they deem relevant on the site and can talk about the latest trends to connect to students and help them. In this, their account will be linked with the LinkedIn profile so that any updates made by alumni will be automatically updated in the portal profile.

IV. RESULTS

The Alumni Management System is a system that manages the records of the students who are a part of the respective institution or were a part of the institution. Alumni management is important as it keeps the records of the previous students to keep them in touch with the institution. The alumnus can be a help to the college in their expertise files of study from the outside world guiding students and updating them about the current happenings.



There are various Pages in the Alumni Portal like Gallery, Course List, Alumni List, Events, Forums, and Users. We designed a simple yet comprehensive registration page that captures essential user information, including name, Branch, Email ID, Gender, Batch, Course Graduated, and Image.



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## V. CONCLUSION

The Alumni website is used to store the former student's details of the college, students can get the information from the college through this website easily any time. An alumni website is a valuable tool for educational institutions and organizations looking to engage and connect with their alumni community. It serves as a bridge between graduates and their alumni, fostering relationships, providing benefits, and facilitating communication. So, this project is very useful to both college and students. Attractive User interface will be provided. The student can easily send queries without confusion. System makes overall project management. Vast amount of data will be stored. It is much easier and flexible. No risk of data mismanagement at any level. High level of security is provided.

"Alumni portal" is a web-based application which stores the data of old students, events, and job posts. The alumni website of a college keeps a person in track with the events that are organized by the college and informs the members when some important events will occur that have not been organized by the college. The advantage of being a member of an alumni website, which is considered to be the main reason why many colleges have an alumni website, is that a person can easily find some information concerning a former student and the person can easily contact any other member of the alumni community.

## VI. ACKNOWLEDGMENT

We would like to convey our heartfelt gratitude to Prof. Sonali Bodekar, and Prof. Rajni Nair for their tremendous support and assistance in the completion of my project. We are very grateful that they provided valuable suggestions for the betterment of the project, and we greatly appreciate them for doing so. We would also like to thank our Principal, Dr. Yogesh Nerkar, and our HOD, Dr. Sanjay Shitole for providing us with this wonderful opportunity to work on a project on the Alumni Management system i.e. Our Alumni Portal. The completion of the project would not have been possible without their help and insights. We would also like to express our gratitude to the alumni council who have contributed and motivated during our project work.

## VII. FUTURE SCOPE

This Alumni Management System project aims to build a system that will be able to manage the alumni data of students and provide easy access to the same. Alumni of a college generally stay in touch with their immediate friends. Contact between alumni can be used to forge business connections and to gain references or insight into a new field. New college students will be initially given a student login ID. Access to the system can help them in building connections to help them in their projects or for placements. Alumni will also be able to provide public posts on the system about possible job opportunities or other college-related news. Since it is unlikely that alumni will check the system frequently, the system will be able to collate all public posts and create a newsletter that can be emailed to all alumni. The system will also have privacy features. Users can determine what information they want to share and also whom they want to share it with. For example, users can choose to share their mobile number with alumni who graduated in the same year as them. The system will also have a chat feature that will enable alumni to chat and discuss upcoming events and the latest trends. Through this website in modern times, we can easily access the data and track alumni. We also have LinkedIn inbuilt so there is no need to update the Alumni Profile as it can be updated automatically when the alumni update their LinkedIn profile, which will help the college to track the current status of alumni.

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