

MMMUT Alumni Network (A Full-Stack App)

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ABSTRACT

The MMMUT Alumni Network is a platform designed to connect alumni, faculty, and current students of Madan Mohan Malaviya University of Technology (MMMUT). This platform provides the facilities like communication, knowledge-sharing, mentorship, and networking opportunities among the university's alumni. The goal of the project is to establish a centralized alumni network that established interaction, collaboration, and professional growth, making it easier for past and present MMMUT students to stay connected.

INTRODUCTION

1.1. Overview

It is alumni network platform use to connect everyone that are related with the MMMUT. To achieve this, the system will be developed using the MERN (MongoDB, Express.js, React.js, Node.js) stack, ensuring scalability, flexibility, and a seamless user experience. The platform will integrate JWT-based authentication for secure access. It helps present students to connect with their seniors and alumni.

LITERATURE SURVEY

2.1. Existing Alumni network System:

When we research, we find that there is no any platform which help students to connect with our alumni and alumni also not able to connect with students. There exist a alumni network for MMMUT but it is not working properly, so we decide to build a platform which efficiently work and connect everyone from MMMUT.

2.2. Importance and need of Alumni network System:

An Alumni network provides facilities to connect with our alumni who have experience and can share their knowledge with students and clear their doubts. When students need guidance regarding jobs and higher education, they have to take some guidance from alumni so it is very important to have a good alumni network connecting platform.

2.3. Challenges in alumni network platform:

Major challenges of an alumni network platform are security and privacy challenges to secure the data of alumni and user. Lack of personalization is also a major challenge because there are generic content that might some user not interested in that content.

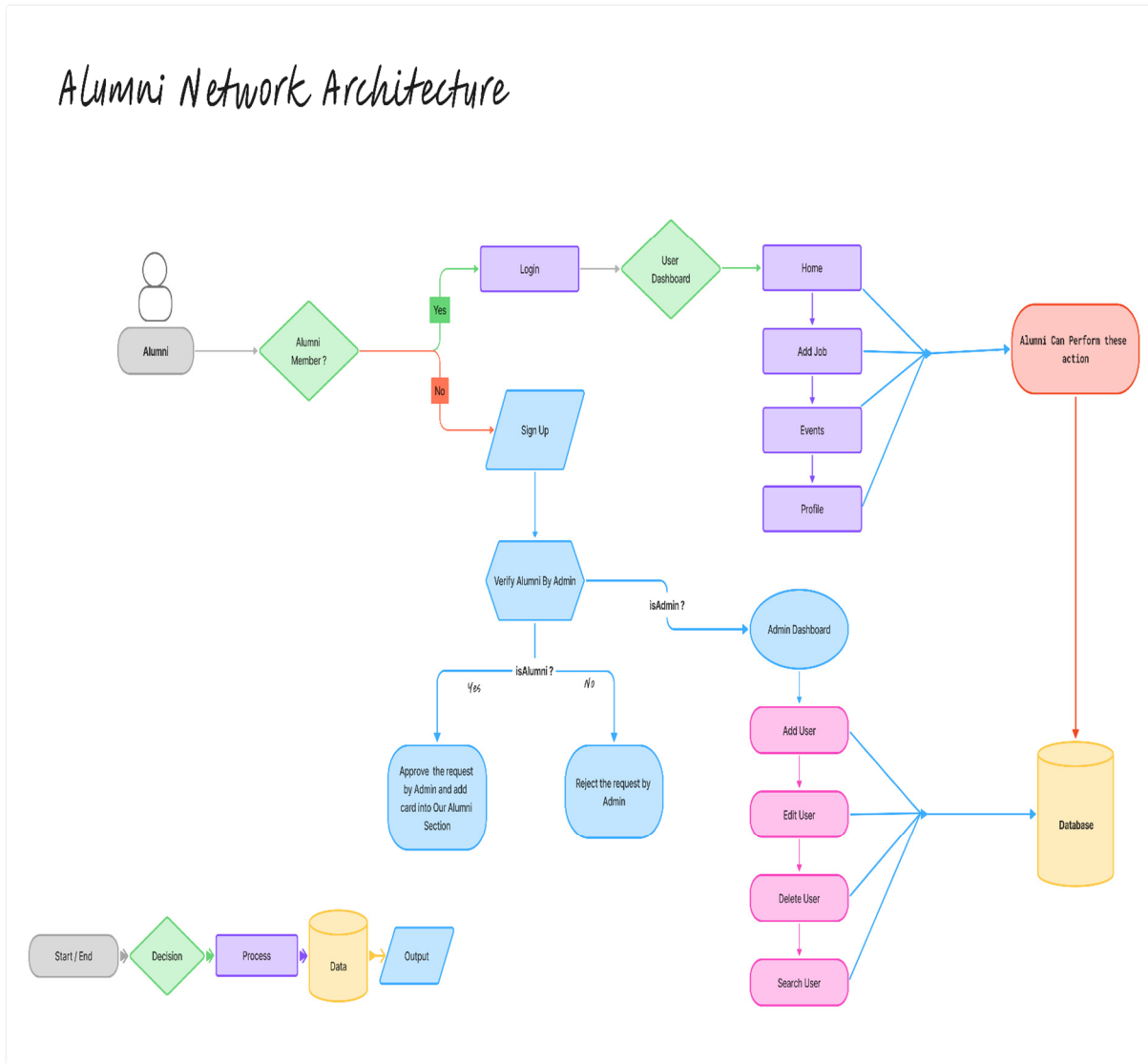
2.4. Career services and Resource sharing:

This platform helps in resource sharing and career support by providing job opportunities and exclusive opportunity regarding there future destination. Features like job referrals and recommendations allow alumni to share job opportunities. Helping each other grow professionally while strengthening the network. Additionally, alumni can post

their success stories and achievements, inspiring others and making the platform more valuable

3. System Modules

3.1 Architecture of System:



3.(a) Flowchart

3.2 Technical Outline:

The platform is constructed using the MERN stack, which consists of MongoDB, Express.js, React.js, and Node.js, ensuring it is efficient and salable. The frontend, build with ReactJS, that help to delivering an engaging and interactive user experience, which allows alumni to navigate through posts and profiles effortlessly. In Backend, Node.js and Express.js manage API requests, handle user data, and communicate with the database. MongoDB use as NoSQL database which provide scalability and easy maintenance.

- **Frontend:** A modular, styled with ReactJS and use Tailwind CSS for interactive interface.[1]
- **Backend:** On the server side the API requests handle using Node.js and Express.js.[2]

- **Database:** For handling the data, we use MongoDB which is a NoSQL database.[4]
- **Hosting:** This project is hosted on Vercel.

3.3 Admin Authentication:

Admin authentication is done using JWT and it grant permissions to the user. Through this admin panel, admin can control the posts, validate profiles and monitor all activities in real time. This interface is very user friendly and admin ensure that community is safe and only original user of MMMUT can login.

3.4 Dashboard:

The Dashboard use as a multifunctional module which include the module like Home, About Us, Our Alumni, Contact Us, Register as Alumni and Log In function. These modules help user to login and manage all the information. This is the very important part of the platform that use to easy access of all pages of the platform.

3.5 Database for Storing User and Post Details:

For storing data and information of user and post MongoDB is used as the primary database, which is a NoSQL database that store data in form of key value pair. And this database is very efficient provide easy data retrieval which enhance the overall performance of the platform.

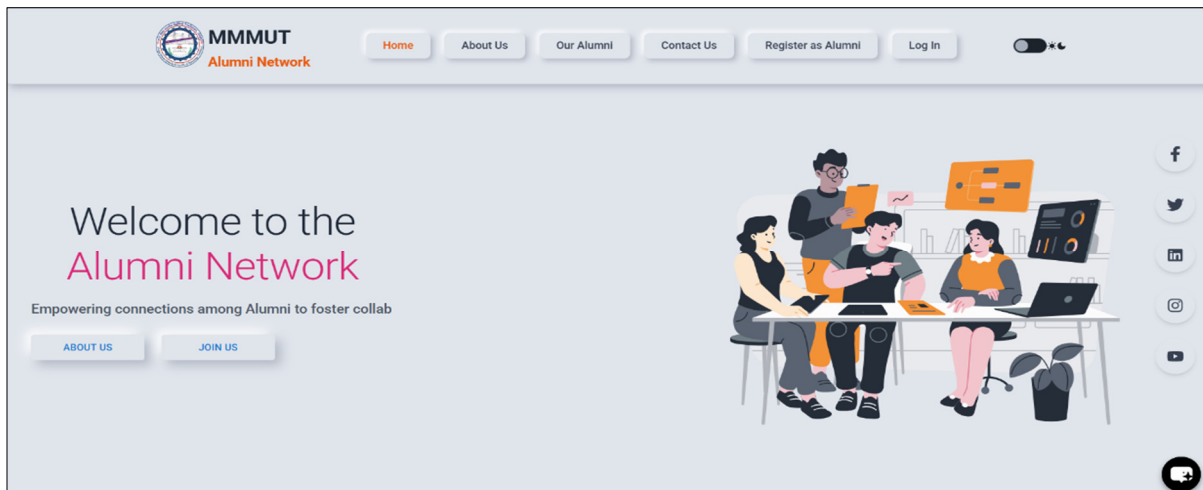
3.6 Result:

Overall, this platform engages all the alumni and current students for this we use some dummy candidate to check how this platform works efficiently and this work great now after this we also continuously updating it to provide great experience.[2]

4. PROTOTYPE OF THE WEBSITE

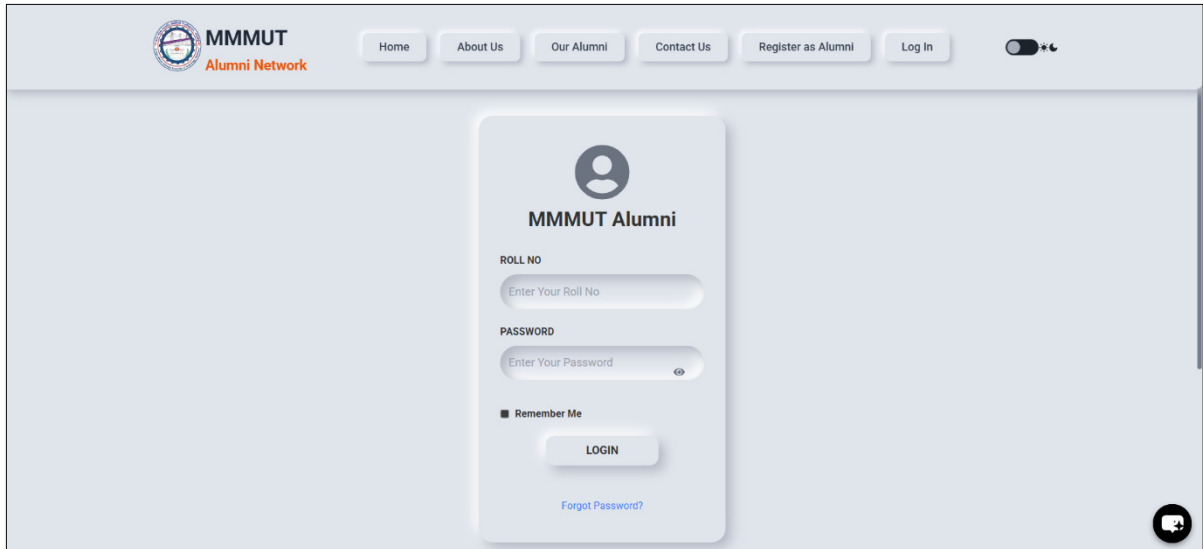
4(a). HOME PAGE

Home page is the main landing page of the platform. It serves as the first impression of the website. Its propose and encourage users to join and login.



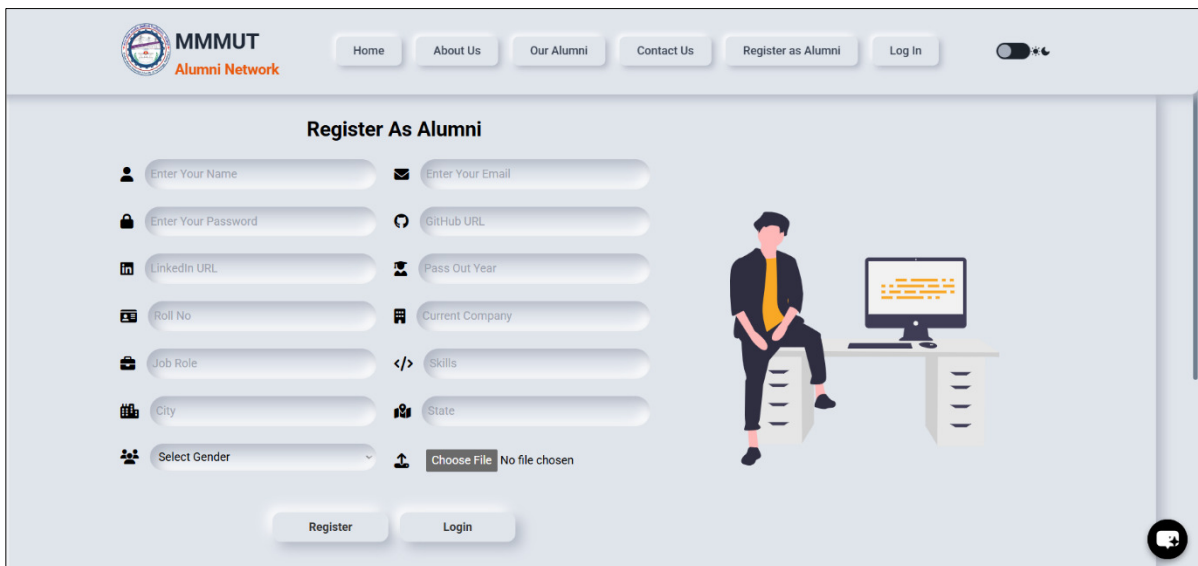
4(b). USER LOGIN

This is a user login page through which user can login and use the available resources of the platform.



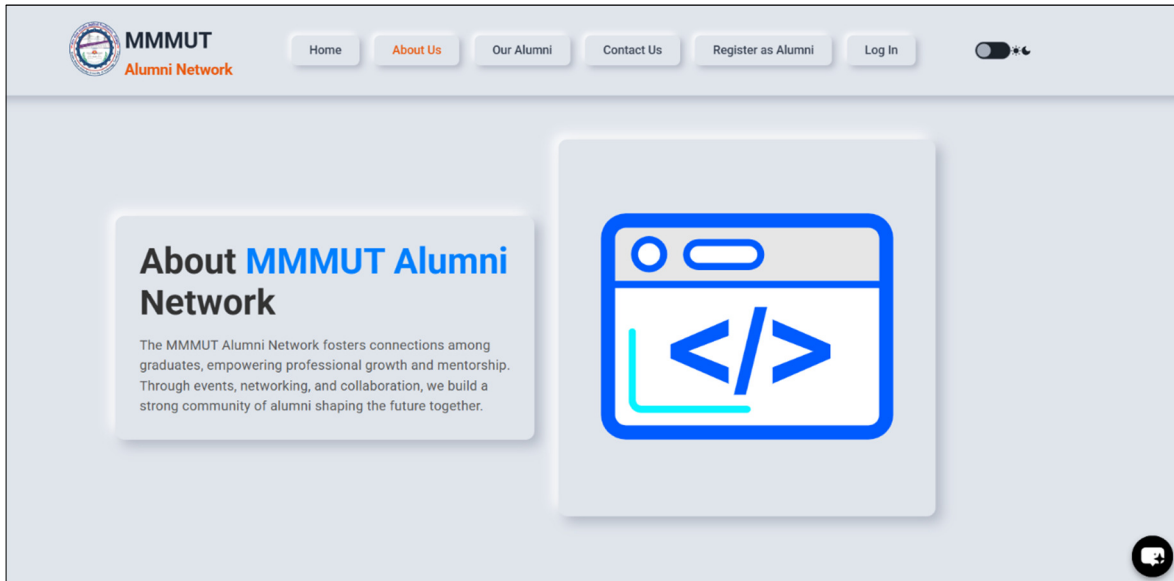
4.(c) REGISTRATION PAGE

Through this page new user can register himself as the Alumni and be a part of this university alumni platform.



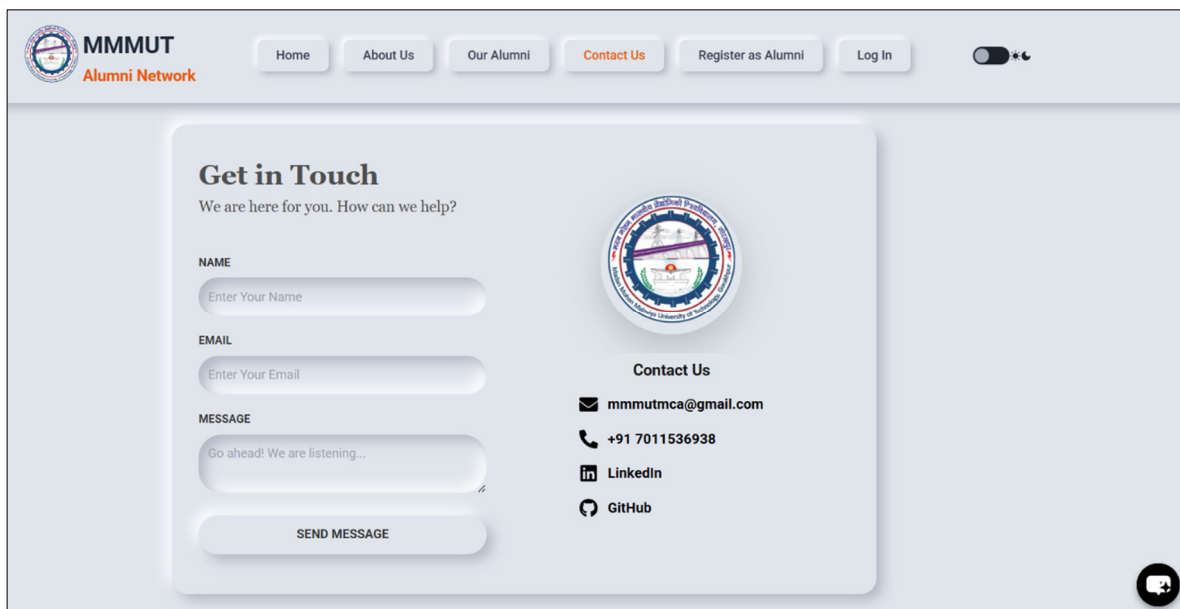
4.(d) ABOUT US PAGE

This page contains the information regarding the Alumni platform.



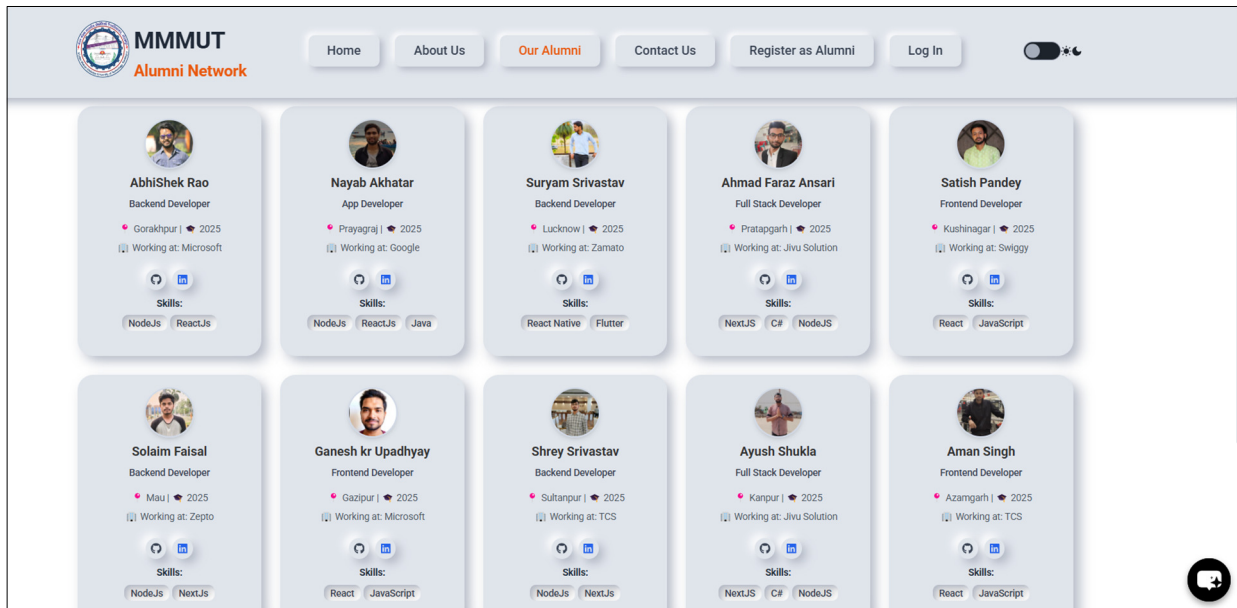
4.(e) CONTACT US PAGE

This page use to contact with the developer and admin when user have some problem and want to ask some question.



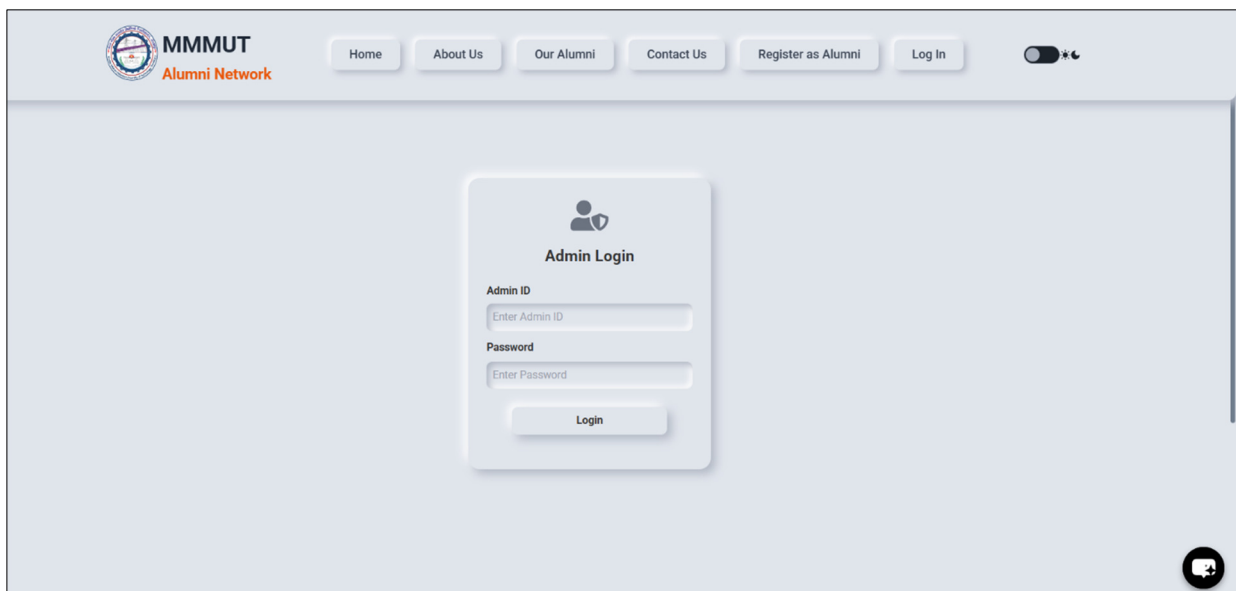
4.(f) OUR ALUMNI PAGE

This page contains the information of the all the alumni of the MMMUT who registered on the platform. Here we use some dummy data to show the information.



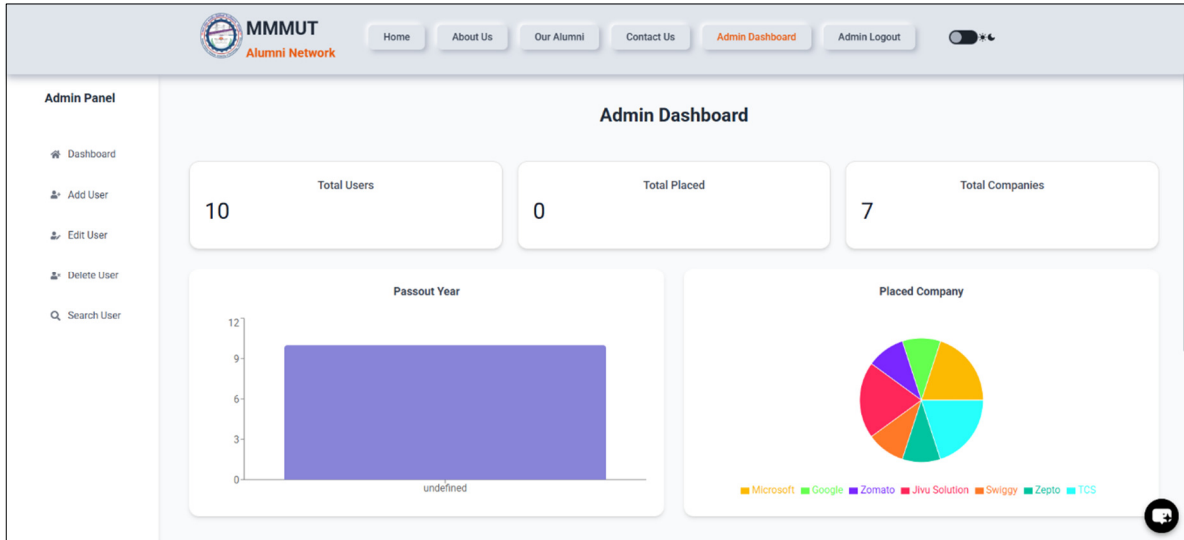
4.(g) ADMIN LOGIN PAGE

This page is use for admin login who handle all the information of the platform.



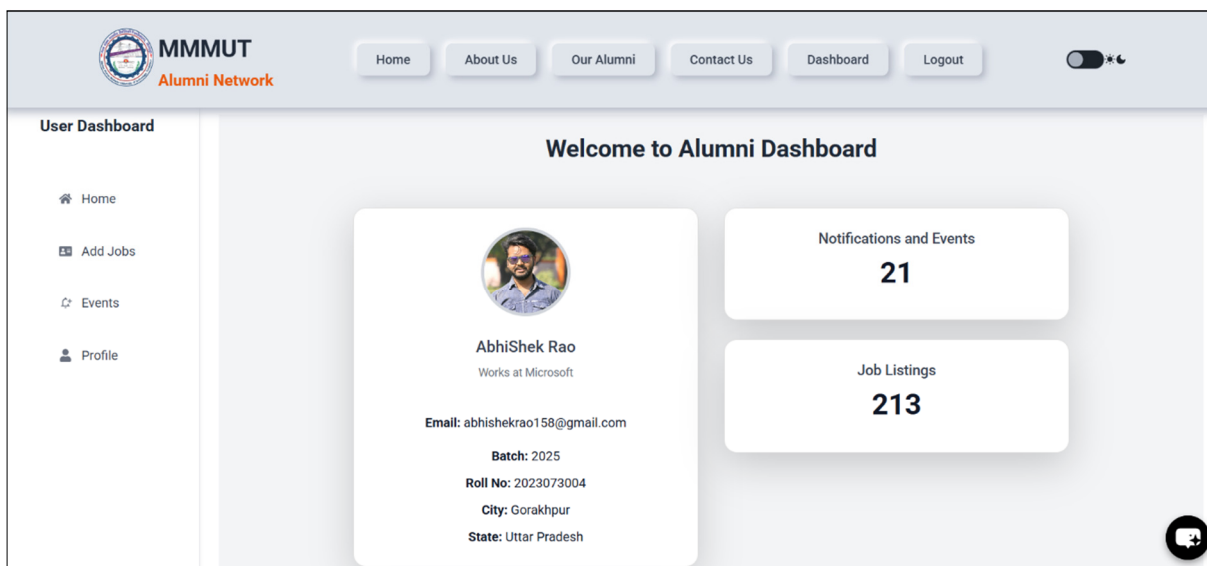
4.(h) ADMIN DASHBOARD PAGE

This page contains the information of the user and from here the admin can manage the user of the platform.



4.(i) USER DASHBOARD PAGE

This page shows the information of the user and here user interact with his/her profile and manage all his/her information.



Future Enhancements:

- In future we want to build an app based on that platform which is very helpful and fast for the users.
- We also want to add AI feature to verify that candidate is from MMMUT.
- We also want to connect students to alumni that they can provide mentorship through this platform.

Conclusion:

Overall, this platform is not just for connect users also this platform helps students to connect with alumni and get multiple job opportunities. This platform provides connectivity, multiple job options and resource sharing. The agile [7] development process ensured flexibility, making this platform more scalable for future development. As the users connect the platform helps everyone with their unique features.

REFERENCES

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- [7]. Agile Project Management for Dummies by Mark C. Layton