

A Major Project Synopsis on

MUJ UNITE

Submitted to Manipal University Jaipur

Towards the partial fulfillment for the Award of the Degree of

MASTER OF COMPUTER APPLICATIONS

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By

Rohan Nigam

23FS20MCA00087



**MANIPAL UNIVERSITY
JAIPUR**

Under the guidance of

Dr. Monika Jyotiyana

Department of Computer Applications

School of Computer Applications

Faculty of Science

Manipal University Jaipur

Jaipur, Rajasthan

2025

INDEX

S.NO.	TOPIC	PAGE NO.
1.	Introduction	3
2.	Motivation	4
3.	Methodology	4-5
4.	Requirements	5
5.	Conclusions	6
6.	Bibliography	7

1. Introduction

MUJ-Unite is a web application designed especially for the Manipal University Jaipur community. "**MUJ-Unite**" aims to provide an interactive platform for the student looking for career advice, an alumni wanting to give back, or a teacher hoping to stay in touch with former students—MUJ-Unite makes it all possible. It's all about building real connections, learning from each other, and making the most of the amazing MUJ network. At its heart, MUJ-Unite is here to strengthen the bond between different members of the university and create a space where everyone feels welcome and supported. Making it easier for everyone to stay connected, share experiences, and help each other to grow together.

Why MUJ-Unite

A. Enhanced Connectivity

- a. Bridges communication gaps between students, teachers, and alumni.
- b. Facilitates direct messaging and interaction among users.
- c. Encourages relationship-building for academic and professional growth.

B. Access to Mentorship

- a. Connects current students with experienced alumni.
- b. Provides guidance on academic choices and professional paths.
- c. Fosters long-term mentorship relationships.

C. Interdisciplinary Collaboration

- a. Encourages students to engage with faculty from different departments.
- b. Promotes diverse perspectives in academic discussions.
- c. Facilitates collaborative projects across various fields of study.

D. User -Friendly Interface

- a. Designed for simplicity and ease of access.
- b. Intuitive layout for all user types: students, teachers, and alumni.
- c. Accessible features for users with varying levels of tech proficiency.

E. Real-Time Updates

- a. Centralized notice board for important announcements.
- b. Immediate access to event details, workshops, and career opportunities.
- c. Regular updates to keep users informed and engaged.

Choosing "**MUJ-Unite**" means embracing a platform that prioritizes connection, collaboration, and community. Join us in building a vibrant network that supports and empowers every member of the Manipal University Jaipur family. Together, we can create a brighter future through shared knowledge and meaningful interactions.

2. Motivation

a. User Registration and Profiles:

- Easy registration process for students, teachers, and alumni.
- Personalized user profiles that showcase academic achievements, professional experiences, and areas of expertise.

b. Post and Interaction Features:

- Users can create and share posts, fostering discussions on various topics.
- Like and comment functionalities to encourage engagement and feedback among users.

c. Direct Messaging:

- Private chat feature that allows users to communicate directly with each other, facilitating mentorship and collaboration.
- Group chat options for discussions among multiple users.

d. Notice Board:

- A centralized space for important announcements, events, and updates from admins, teachers, and alumni.
- Users can easily access information about workshops, seminars, and other opportunities.

e. Feedback and Suggestions:

- A dedicated section for users to provide feedback on the platform and suggest new features.
- Admins can respond to feedback, ensuring that user voices are heard and considered in future developments.

By offering these services, "MUJ-Unite" aims to create a comprehensive platform that supports the academic and professional growth of students, teachers, and alumni at Manipal University Jaipur. Our goal is to foster a collaborative and engaging environment that empowers users to connect, learn, and thrive together.

3. Methodology

a. Frontend Development

- Design a user-friendly and responsive UI.
- Key pages: Home, Contact Us, Profile ("Me"), Messages, Announcements, Search.
- Use libraries/frameworks like Bootstrap or Tailwind CSS for faster development [1][2][3].

b. Portal Creation for Different Users:

- **Admin Portal:**
 - Manage users and roles.
 - Review feedback.
 - View analytics dashboard.
 - Handle support/contact queries.

- **Teacher Portal:**
 - Post announcements.
 - Upload resources.
 - Interact with students.
 - View and respond to feedback.
- **Student Portal:**
 - View/edit profile.
 - Join discussions.
 - Connect with alumni.
- **Alumni Portal:**
 - Update profile.
 - Access shared resources.
 - Participate in community discussions.
 - Provide feedback.
 - Stay informed about events.

c. Backend Development

- Set up Django project and models [4].
- Implement user authentication and permissions.
- Build REST APIs for frontend communication.
- Use SQLite for database management during development [5].

d. Testing & Deployment:

- Perform unit and functionality testing.
- Fix bugs and optimize performance.
- Deploy on a suitable hosting platform.
- Collect user feedback and make final improvements.

3. Requirements:

a. Software Requirement:

- Operating System: Windows 10
- User Interface: JS
- Database: SQL Lite
- Backend: Django

b. Hardware Requirement:

- Processor: Intel Core i5
- RAM: 1GB
- Hard Disk: 10 GB Hard Disk Space

5. Conclusions

MUJ Unite is designed to provide a seamless interaction with Teacher, Student and Alumni with features like private chat, announcement, post, notifications, contacts. By integrating Python with Django framework and SQLite, ensures smooth and efficient experience for MUJ family. The platform simplifies knowledgeable content, enhances productivity and makes MUJ bond stronger.

6. Bibliography

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