

CampusConnect – Alumni–Student Placement Portal

1. Introduction

CampusConnect is a full-stack web application designed to bridge the communication gap between alumni and current students of an institution. It enables alumni to share placement and interview experiences while allowing students to interact directly through a real-time chat system. The project strengthens alumni-student relations and enhances placement preparedness.

2. Problem Statement

Students often struggle to access authentic placement experiences or direct mentorship from alumni. Existing channels lack structure and real-time interaction. Hence, a secure and interactive platform is needed for experience sharing and networking.

3. Objectives

- Create a unified portal connecting alumni and students.
- Enable alumni to share placement experiences.
- Provide real-time personal chat between alumni and students.
- Ensure secure data management and smooth interaction.

4. Proposed System

The system uses the MERN stack (MongoDB, Express.js, React.js, Node.js) with Socket.io for real-time communication. Alumni can post experiences and students can chat with them directly. JWT ensures authentication and data security.

5. System Architecture

- Frontend: React.js (Tailwind CSS)
- Backend: Node.js, Express.js
- Database: MongoDB (Mongoose)
- Real-time Chat: Socket.io
- Hosting: Vercel / Render / MongoDB Atlas

6. Features

- Secure registration and login
- Role-based dashboard for alumni and students
- Post and browse placement experiences
- Real-time chat between users
- Search, filter, and cloud-hosted scalability

7. Expected Outcome

CampusConnect provides an interactive platform for students and alumni to connect. It enhances placement readiness, builds professional relationships, and improves institutional collaboration.

8. Future Scope

- AI-based job recommendations
- Resume builder and mock interviews
- Admin verification panel
- Mobile app for better accessibility