# Connect\o - Social Networking Platform

**A Project Report**

***Submitted by***

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***in partial fulfillment for the award of the degree of***

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At



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## CERTIFICATE

This is to certify that the project entitled “**Social Networking Site**” is the Bonafide work carried out by **Arnav Jadhav, Vandan Choksi and Yash Mehta** of MBATECH, MPSTME (NMIMS), Mumbai, during the VI semester of the academic year 2024-25, in partial fulfillment of the requirements for the Course Web Programming

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Examiner 1 Examiner 2

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**1. Introduction, Scope & Purpose**

**1.1 Project Overview**

Connect\o is a comprehensive professional networking platform designed to bridge the gap between professionals across various industries. The platform combines modern web technologies with user-centric design to create a seamless networking experience.

**1.2 Project Scope**

* **User Profile Management**
  + Profile creation and customization
  + Professional information management
  + Profile visibility settings
  + Activity history tracking
* **Content Management**
  + Post creation and editing
  + Media attachment support
  + Content categorization
  + Post privacy controls
* **Communication System**
  + Real-time messaging
  + Group chat functionality
  + Message history
  + Notification system
* **Network Management**
  + Connection requests
  + Network visualization
  + Connection recommendations
  + Network analytics
* **Database Operations**
  + User data management
  + Content storage
  + Message archiving
  + Activity logging

**1.3 Project Purpose**

The primary objectives of Connect\o are to:

* Facilitate professional networking and collaboration
* Enable knowledge sharing and professional development
* Provide a secure and efficient communication platform
* Support career growth and opportunities
* Create a professional community ecosystem

**2. Description of Modules**

|  |  |  |  |
| --- | --- | --- | --- |
| **Module** | **Description** | **Features** | **Technical Implementation** |
| Home | Central hub for content interaction | * Post creation and editing * Feed display with infinite scroll * Like/comment/share functionality * Content filtering and sorting | * localStorage for post storage * DOM manipulation for feed updates * Event listeners for interactions |
| Network | Professional connection management | * Connection requests * Network visualization * Professional recommendations * Connection analytics | * Graph-based data structure * Recommendation algorithms * Connection status tracking |
| Messages | Real-time communication system | * Private messaging * Group chat rooms * Message history * File sharing | * localStorage for message storage * Real-time updates * Message threading |
| User Profile | Personal information management | * Profile customization * Activity tracking * Privacy settings * Professional portfolio | * Form validation * Image handling * Data persistence |
| Database | Data management system | * CRUD operations * Data validation * Record management * Data export/import | * localStorage API * JSON data handling * Data synchronization |

**3. Technologies Used**

**3.1 Frontend Technologies**

**HTML5**

* Semantic markup for structure
* Form validation
* Media elements
* Local storage API

**CSS3**

* Flexbox and Grid layouts
* Responsive design
* Animations and transitions
* Media queries

**JavaScript**

* ES6+ features
* DOM manipulation
* Event handling
* Asynchronous programming

**3.2 Data Storage**

**localStorage API**

* Client-side data persistence
* Session management
* Data synchronization
* Storage limits handling

**JSON**

* Data serialization
* Data transfer format
* Schema validation
* Data parsing

**3.3 Development Tools**

**Visual Studio Code**

* Code editing
* Debugging
* Extensions
* Version control integration

**Git**

* Version control
* Branch management
* Collaboration
* Code review

**Chrome DevTools**

* Debugging
* Performance analysis
* Network monitoring
* Memory profiling

**4. Methods Implemented**

**User Authentication**

* Login/Registration
* Session management
* Password handling
* User validation

**Post Management**

* Post creation
* Content editing
* Post deletion
* Content moderation

**Message Handling**

* Message sending
* Message receiving
* Message threading
* Message archiving

**Profile Management**

* Profile editing
* Privacy settings
* Activity tracking
* Profile customization

**Database Operations**

* Data creation
* Data retrieval
* Data updating
* Data deletion

## 6. GUI/Database Screenshots

### **6.1 User Interface**

#### **Login/Registration Page**

#### Modern, responsive design with form validation and error handling

#### **Home Feed**

#### Dynamic post feed with infinite scroll and interaction options

#### **Network Page**

#### Connection management interface with recommendations

#### **Messages Interface**

#### Real-time chat interface with message history

#### **User Profile**

#### Customizable profile page with activity feed

### **6.2 Database Management**

#### **Data Tables**

#### Structured data representation with CRUD operations

#### **Record Management**

#### User-friendly interface for data manipulation

#### **Data Visualization**

#### Graphical representation of stored data

**7. Conclusion & Future Scope**

**7.1 Project Achievements**

* Successfully implemented core networking features
* Created a responsive and user-friendly interface
* Established efficient data management system
* Implemented secure user authentication
* Developed scalable architecture

**7.2 Future Enhancements**

* **Technical Improvements**
  + Backend integration with Node.js
  + Real-time updates using WebSocket
  + Advanced search algorithms
  + Machine learning for recommendations
* **Feature Additions**
  + Video conferencing
  + Professional portfolio builder
  + Job posting and application system
  + Analytics dashboard
* **Security Enhancements**
  + Two-factor authentication
  + End-to-end encryption
  + Advanced privacy controls
  + Data backup system
* **Mobile Development**
  + Native mobile applications
  + Offline functionality
  + Push notifications
  + Mobile-optimized features

**8. Applications**

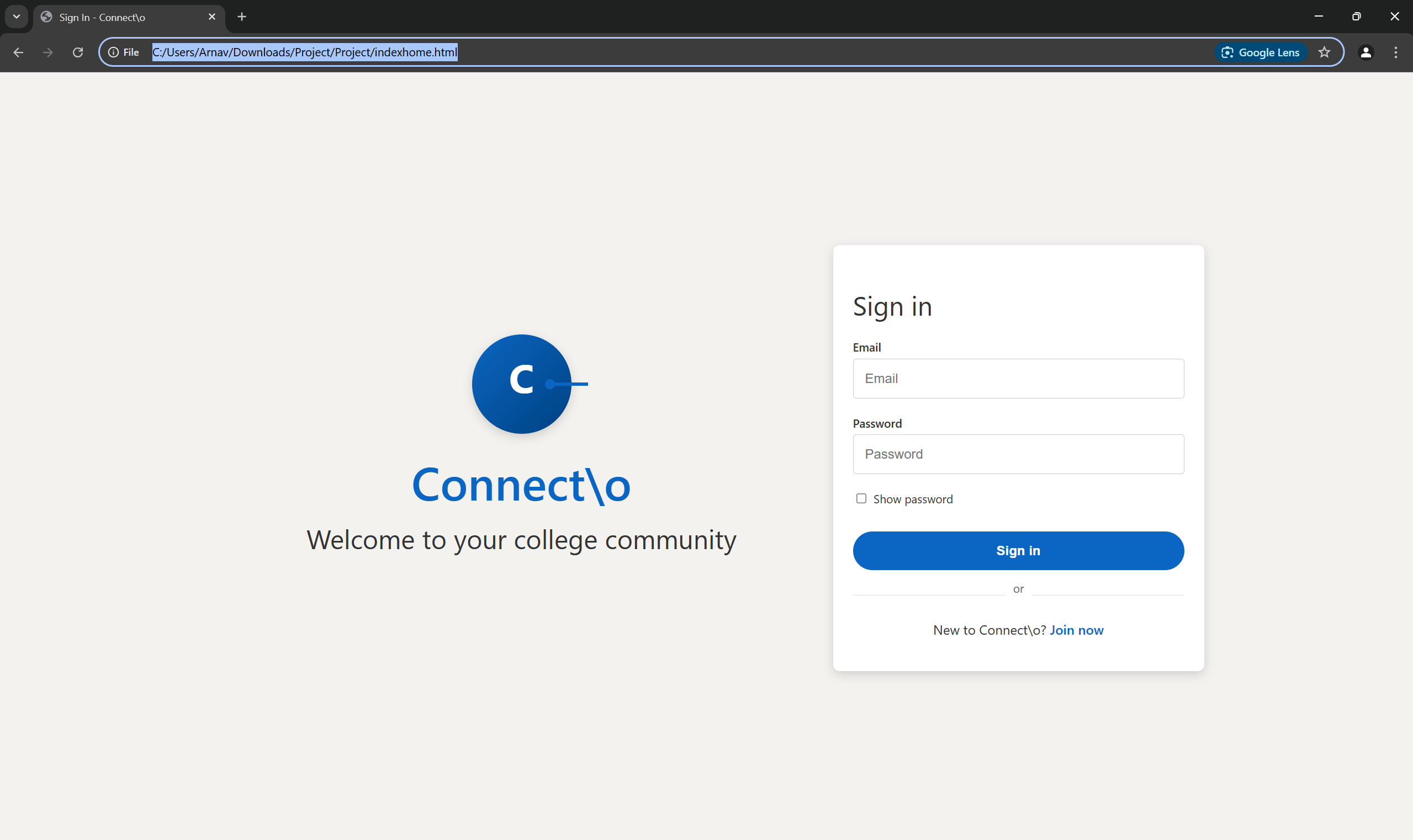
**8.1 Professional Use Cases**

* **Career Development**
  + Professional networking
  + Job opportunities
  + Skill development
  + Mentorship programs
* **Business Communication**
  + Team collaboration
  + Project management
  + Client communication
  + Business networking
* **Industry Communities**
  + Specialized groups
  + Knowledge sharing
  + Industry updates
  + Professional events
* **Recruitment**
  + Talent acquisition
  + Candidate screening
  + Job matching
  + Professional verification

**8.2 Business Benefits**

* Enhanced professional visibility
* Improved networking opportunities
* Streamlined communication
* Access to industry insights
* Career growth potential

**Screenshot of Landing Page:**



**GitHub Link:** https://github.com/AJR2005/WP\_Project