

# **Madhav Institute of Technology & Science, Gwalior (M.P.), INDIA**

Deemed University

(Declared under Distinct Category by Ministry of Education, Government of India)

## **NAAC ACCREDITED WITH A++ GRADE**

### **Minor Project (II) Progress Report**

**On**

### **Design and Development of a Chatting Application**

#### **Work Need to Be Done**

While the front-end of our chatting application has been successfully developed, there are still some improvements and additional features that need to be implemented:

#### **1. Enhancing Design with More CSS**

- Improve the overall UI by adding better styling, color schemes, and typography.
- Implement hover effects, animations, and transitions to make the interface more engaging.
- Optimize the chat layout for better readability and user experience.
- Enhance the button designs for a modern and interactive feel.
- Improve spacing, padding, and alignment for a cleaner and more professional look.

#### **2. Developing the Full Backend Functionality**

- Integrate a database (e.g., MySQL, Firebase, or MongoDB) to store user messages and chat history.
- Develop a user authentication system where users can register, log in, and manage their profiles.
- Implement real-time messaging using WebSockets to enable instant communication.
- Set up group chat functionality, including message delivery status and notifications.
- Enable end-to-end encryption for secure conversations.
- Develop an admin panel to manage user accounts, messages, and system settings.

Once these improvements are made, the application will be fully functional, allowing users to send and receive messages seamlessly, create group chats, and maintain secure communications.

#### **Work Done: Chatting Application Development**

We have successfully developed a chatting application using HTML, CSS, JavaScript, and Firebase.

The application provides a seamless and interactive experience for users to communicate efficiently.

Below are the key sections implemented:

## **1. Home Page**

- Designed an attractive landing page with a visually appealing layout.
- Included a welcome message and high-quality images to enhance user engagement.
- Added a navigation bar for easy access to different sections of the application.

## **2. Chat Interface**

- Created a structured messaging section where users can send and receive messages in real-time.
- Implemented interactive hover effects to enhance the UI/UX experience.
- Designed a responsive grid layout to display chat messages efficiently.

## **3. Features Section**

- Highlighted the key features offered, such as private chat, group chat, and media sharing.
- Added visually appealing icons and descriptions for better readability.

## **4. Contact Us Section**

- Integrated a contact form where users can enter their name, email, and message.
- Provided business contact details, including phone number and email support.
- Embedded a Google Map for office location visibility (if applicable).

## **5. User Experience Enhancements**

- Ensured mobile responsiveness so that the application functions smoothly on different screen sizes.
- Applied CSS animations and transitions to enhance the user experience.
- Used JavaScript for form validation and real-time message updates.

This application serves as a functional prototype for online chatting, providing a user-friendly interface and efficient communication tools for an enhanced user experience.

### **Submitted By:**

Kunal Barya (0901CD221036)

Ankush Bhoutekar (0901CD221011)

Computer Science and Design

6th Sem, 3rd Year

### **Approved by Mentor:**

Prof. Mahesh Parmar

Computer Science and Engineering