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Completed the project named as Phase_I_

TECHNOLOGY PROJECT NAME : CHAT APPLICATION UI

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CHAT APPLICATION UI -PHASE I

1. Problem Statement

Objective:

Develop a user-friendly chat application UI that facilitates seamless communication between users, offering real-time messaging, intuitive navigation, and responsive design.

Challenges:

- **User Needs:** Users require a chat interface that is intuitive, responsive, and supports real-time communication.
- **Technical Constraints:** Integration with backend services, ensuring data privacy, and maintaining performance.
- **Market Differentiation:** Standing out in a competitive landscape of chat applications.

2. Users & Stakeholders

Primary Users:

- **End Users:** Individuals seeking to communicate with others in real-time.
- **Administrators:** Oversee system performance and user management.

Secondary Users:

- **Developers:** Integrate and maintain the chat application.
- **Support Staff:** Provide user assistance and handle feedback.

Stakeholders:

- **Product Owners:** Define the application's vision and ensure alignment with business goals.
- **Marketing Team:** Promote the application and gather user feedback.
- **Legal & Compliance:** Ensure data privacy and regulatory compliance.

3. User Stories

1. As an end user, I want to send and receive messages in real-time so that I can communicate effectively.

Acceptance Criteria:

- Given a message is sent, when delivered, then the recipient receives it in real-time.
 - Given a message is read, when viewed, then the sender is notified.
2. As an administrator, I want to monitor user activity so that I can ensure compliance with usage policies.

Acceptance Criteria:

- Given access to the admin dashboard, when viewed, then user activity logs are displayed.
- Given a policy violation, when detected, then an alert is triggered.

4. MVP Features

- Real-Time Messaging: Instant delivery and receipt of messages.
- User Authentication: Secure login and registration processes.
- Message Notifications: Alerts for new messages.
- Admin Dashboard: Monitoring tools for user activity.
- Search Functionality: Ability to search for messages and users.

5. Wireframes / API Endpoint List

Wireframes:

- Login Screen: Fields for username and password.
- Chat Interface: Message display area, input field, and send button.
- Admin Dashboard: User activity logs and system metrics.

API Endpoints:

- POST /api/auth/register: Register a new user.
- POST /api/auth/login: Authenticate a user.
- GET /api/messages: Retrieve messages.
- POST /api/messages: Send a new message.
- GET /api/admin/activity: Retrieve user activity logs.

6. Acceptance Criteria

- Functionality: All features operate as intended without critical bugs.
- Usability: Users can navigate the application intuitively.
- Performance: Response times are within acceptable limits.
- Security: User data is protected and complies with relevant regulations.