Captone Project

A real-time chat application with features like private messaging, group chat, and file sharing.

API

Chat By Stream

Frontend

* React for user interface

Backend

* Mode.js
* User information
* Messaging
* Group details

App Flow

1. Sign-Up/Sign-In Page:

UI Components:

* Sign-Up form with fields for username, email, and password.
* Sign-In form with fields for email and password.
* Option for social media authentication (if implemented).

Functionality:

* New users can register by providing required information. (username, password, email)
* Returning users can sign in using their credentials.
* Authentication tokens (JWT) are generated upon successful sign-in.

2. Dashboard/Home Page:

UI Components:

* List of recent chats.
* Search bar to find and start new chats.
* Option to create or join a group.

Functionality:

* Display a list of recent private and group chats.
* Clicking on a chat opens the chat room.

3. Chat Room Page:

UI Components:

* Chat window displaying messages.
* Input field for typing messages.
* User list for group chats.
* File upload button.
* Functionality:
* Real-time display of messages.
* Send and receive messages in private or group chat.
* Display user avatars and online status.
* File uploads trigger a file-sharing event.

4. File Preview/Download:

UI Components:

* File preview or download option.
* Back button to return to the chat room.

Functionality:

* Display a preview of the file (if applicable).
* Download option for users to save the file.

5. Group Management Page:

UI Components:

* List of group members.
* Option to add or remove members.
* Group settings and details.

Functionality:

* Manage group members and permissions.
* Change group settings.
* Leave or disband the group.

6. User Profile Page:

UI Components:

* User information and avatar.
* Option to edit profile details.
* Logout button.

Functionality:

* View and update user information.
* Log out of the application.

App Workflow:

User Registration and Authentication:

* User registers or logs in.
* Authentication tokens are generated and stored securely.

Dashboard:

* User is presented with a dashboard showing recent chats.
* They can search for or create new chats.

Private or Group Chat:

* User clicks on a chat to enter the chat room.
* Real-time messaging is established.
* File uploads trigger file-sharing events.

File Preview/Download:

* Clicking on a file opens a preview/download page.

Group Management:

* User can manage group settings and members.

User Profile:

* User can view and edit their profile details.

Log Out:

* User logs out securely.