**Chat-App Endpoints**

**1. User Registration and Authentication**

* **POST /api/register**
  + **Description**: Registers a new user.
  + **Request Body**:

json

Copy code

{

"username": "string",

"email": "string",

"password": "string"

}

* + **Response**:

json

Copy code

{

"message": "User registered successfully",

"userId": "string"

}

* **POST /api/login**
  + **Description**: Authenticates a user.
  + **Request Body**:

json

Copy code

{

"email": "string",

"password": "string"

}

* + **Response**:

json

Copy code

{

"token": "string",

"userId": "string"

}

* **GET /api/user/**
  + **Description**: Gets user details by ID.
  + **Response**:

json

Copy code

{

"userId": "string",

"username": "string",

"email": "string"

}

**2. Chat Management**

* **GET /api/chats**
  + **Description**: Retrieves a list of all chats for the authenticated user.
  + **Response**:

json

Copy code

{

"chats": [

{

"chatId": "string",

"participants": ["userId1", "userId2"],

"lastMessage": "string",

"lastMessageTime": "timestamp"

}

]

}

* **POST /api/chats**
  + **Description**: Creates a new chat between users.
  + **Request Body**:

json

Copy code

{

"participants": ["userId1", "userId2"]

}

* + **Response**:

json

Copy code

{

"message": "Chat created",

"chatId": "string"

}

**3. Message Management**

* **GET /api/chats/**

**/messages**

* + **Description**: Retrieves messages for a specific chat.
  + **Response**:

json

Copy code

{

"messages": [

{

"messageId": "string",

"sender": "userId",

"content": "string",

"timestamp": "timestamp"

}

]

}

* **POST /api/chats/**

**/messages**

* + **Description**: Sends a message in a specific chat.
  + **Request Body**:

json

Copy code

{

"sender": "userId",

"content": "string"

}

* + **Response**:

json

Copy code

{

"messageId": "string",

"timestamp": "timestamp"

}

**4. Socket.io Events**

* **join**
  + **Description**: Join a specific chat room.
  + **Data**:

json

Copy code

{

"chatId": "string",

"userId": "string"

}

* **message**
  + **Description**: Send a message to a chat room.
  + **Data**:

json

Copy code

{

"chatId": "string",

"sender": "userId",

"content": "string"

}

* **receiveMessage**
  + **Description**: Receive a message in a chat room.
  + **Data**:

json

Copy code

{

"chatId": "string",

"sender": "userId",

"content": "string",

"timestamp": "timestamp"

}