**Setting Up and Running the API Locally**

**Prerequisites**:

Node.js installed on your machine.

MongoDB installed locally or accessible remotely.

A text editor or IDE (e.g., Visual Studio Code).

**Steps**:

Clone the Repository from <https://github.com/Sarath411/MoviesManagementSystem>

**Install Dependencies:**

Navigate to project's root directory in the terminal.

Run npm install to install all required dependencies.

**Set Up Environment Variables:**

Create a .env file in the root directory.

Add necessary environment variables, e.g., MONGO\_URI, JWT\_KEY. Example:

**MONGO\_URI=mongodb://localhost:27017/moviesLobby**

**JWT\_KEY=your\_secret\_key**

**REDIS\_URL=your\_redis\_url**

**Run the API:**

Execute **npm start** to start the API.

Ensure MongoDB and Redis are running if you're using a local instance.

**API Documentation**

Below is a brief documentation of API endpoints with sample requests and responses:

**1. Register User**

Endpoint: POST /api/users/register

Body:

**{**

**"name": "John Doe",**

**"email": "john@example.com",**

**"password": "password123",**

**"mobile": "1234567890",**

**"role": "user"**

**}**

Response:

**{**

**"user": {**

**"id": "userId",**

**"name": "John Doe",**

**"email": "john@example.com",**

**"role": "user"**

**},**

**"token": "jwt\_token"**

**}**

**2. Login User**

Endpoint: POST /api/users/login

Body:

**{**

**"email": "john@example.com",**

**"password": "password123"**

**}**

Response:

{

**"user": {**

**"id": "userId",**

**"name": "John Doe",**

**"email": "john@example.com",**

**"role": "user"**

**},**

**"token": "jwt\_token"**

**}**

1. **List Movies**

Endpoint: GET /api/movies

Headers: Authorization: Bearer jwt\_token

Response:

**[**

**{**

**"title": "Inception",**

**"genre": "Action",**

**"rating": 8.8,**

**"streamingLink": "http://example.com/inception"**

**}**

**]**

1. **Add Movie (Admin)**

Endpoint: POST /api/movies

Headers: Authorization: Bearer jwt\_token

Body:

**{**

**"title": "Interstellar",**

**"genre": "Sci-Fi",**

**"rating": 8.6,**

**"streamingLink": "http://example.com/interstellar"**

**}**

Response:

**{**

**"movie": {**

**"title": "Interstellar",**

**"genre": "Sci-Fi",**

**"rating": 8.6,**

**"streamingLink": "http://example.com/interstellar"**

**}**

**}**

1. **Get Movies by name and genre**

Endpoint: GET /api/movies/search?q=Inc

Headers: Authorization: Bearer jwt\_token

Response:

**[**

**{**

**"title": "Inception",**

**"genre": "Action",**

**"rating": 8.8,**

**"streamingLink": "http://example.com/inception"**

**}**

**]**

**6.Edit Movie (Admin)**

Endpoint: PUT/api/movies/movie\_id

Headers: Authorization: Bearer jwt\_token

Body:

**{**

**"rating": 9.2,**

**}**

Response:

**{**

**"movie": {**

**"title": "Interstellar",**

**"genre": "Sci-Fi",**

**"rating": 9.2,**

**"streamingLink": "http://example.com/interstellar"**

**}**

**}**

**7.Delete Movie (Admin)**

Endpoint: DELETE/api/movies/movie\_id

Headers: Authorization: Bearer jwt\_token

Response: (empty)

**THANK YOU**