Doctor Appointment System API Documentation

Base URL:

```
http://localhost:5000
```

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1. Authentication APIs

These endpoints allow users to **register**, **log in**, and **access protected routes** using JWT authentication.

1.1 Register User

🔨 Endpoint:

```
POST /api/auth/register
```

- ◇ **Description:** Registers a new user (Doctor or Patient).

- ◇ **Headers:**

  - Content-Type: application/json

- ◇ **Request Body:**

```
{
  "fullName": "Hassan Ali Jimale",
  "email": "Hassan@gmail.com",
  "password": "password123",
  "role": "patient"
}
```

- ◇ **Response (Success):**

```
{
  "token": "your_jwt_token",
  "user": {
    "_id": "64xyz123456789abc",
    "fullName": " Hassan Ali Jimale ",
    "email": " Hassan@gmail.com ",
    "role": "patient"
  }
}
```

1.2 Login User

🔏 Endpoint:

```
POST /api/auth/login
```

◇ **Description:** Logs in a registered user.

◇ **Headers:**

- `Content-Type: application/json`

◇ **Request Body:**

```json
{
  "email": " Hassan@gmail.com ",
  "password": "password123"
}
```

◇ **Response (Success):**

```json
{
  "token": "your_jwt_token",
  "user": {
    "_id": "64xyz123456789abc",
    "fullName": " Hassan Ali Jimale ",
    "email": " Hassan@gmail.com ",
    "role": "patient"
  }
}
```

2. User Management APIs

These endpoints allow **CRUD operations** on users, including updating and deleting users.

2.1 Get All Users (Admin Only)

🔏 Endpoint:

```
GET /api/users
```

- ◇ **Description:** Retrieves a list of all users.
- ◇ **Headers:**

  - `Authorization: Bearer <your_jwt_token>`

2.2 Get Single User by ID

⚗ **Endpoint:**

```
GET /api/users/:id
```

- ◇ **Description:** Retrieves details of a single user.
- ◇ **Headers:**

  - `Authorization: Bearer <your_jwt_token>`

2.3 Update User

⚗ **Endpoint:**

```
PUT /api/users/:id
```

- ◇ **Description:** Updates user details.
- ◇ **Headers:**

  - `Authorization: Bearer <your_jwt_token>`
  - `Content-Type: application/json`

- ◇ **Request Body:**

```
{
  "fullName": "Updated Name",
  "email": "updated.email@example.com"
}
```

- ◇ **Response (Success):**

```
{
  "message": "User updated successfully",
  "user": {
    "_id": "64xyz123456789abc",
```

```
      "fullName": "Updated Name",
      "email": "updated.email@example.com"
    }
}
```

2.4 Delete User

✎ Endpoint:

```
DELETE /api/users/:id
```

- ◇ **Description:** Deletes a user.
- ◇ **Headers:**

  - Authorization: Bearer <your_jwt_token>

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3. Appointments APIs

These endpoints allow **patients to book appointments** and **doctors to manage them**.

3.1 Create Appointment (Patient)

✎ Endpoint:

```
POST /api/appointments
```

- ◇ **Description:** Patients book an appointment with a doctor.
- ◇ **Headers:**

  - Authorization: Bearer <your_jwt_token>
  - Content-Type: application/json

- ◇ **Request Body:**

```
json
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{
  "doctorId": "65a3c9b8b7b44e001cb6e012",
  "date": "2025-02-10",
  "time": "14:00",
```

```
  "reason": "Hubin Caafimaad"
}
```

◇ Response (Success):

```json
{
  "message": "Appointment created successfully",
  "appointment": {
    "_id": "65a4d2e3b7b44e001cb6f123",
    "patientId": "64xyz123456789abc",
    "doctorId": "65a3c9b8b7b44e001cb6e012",
    "date": "2025-02-10",
    "time": "14:00",
    "reason": "Hubin Caafimaad",
    "status": "pending"
  }
}
```

3.2 Get All Appointments (Doctor & Patient)

🔗 Endpoint:

```
GET /api/appointments
```

◇ Description:

- **Doctor** sees all appointments assigned to them.
- **Patients** see only their own appointments.

◇ Headers:

- Authorization: Bearer <your_jwt_token>

3.3 Update Appointment Status (Doctor Only)

🔗 Endpoint:

```
PUT /api/appointments/:id
```

- ◇ **Description:** The **doctor** updates an appointment's status (approved or rejected).
- ◇ **Headers:**

- Authorization: Bearer <your_jwt_token>
- Content-Type: application/json

◇ **Request Body:**

```json
{
  "status": "approved"
}
```

◇ **Response (Success):**

```json
{
  "message": "Appointment status updated",
  "appointment": {
    "_id": "65a4d2e3b7b44e001cb6f123",
    "status": "approved"
  }
}
```

3.4 Delete Appointment (Doctor or Patient)

🔨 Endpoint:

```
DELETE /api/appointments/:id
```

◇ **Description:**

- **Patients** can cancel their own appointments.
- **Doctors** can remove appointments if necessary.

◇ **Headers:**

- Authorization: Bearer <your_jwt_token>

◇ **Response (Success):**

```json
{
  "message": "Appointment deleted successfully"
}
```

📄 Summary of API Endpoints

Feature	Method	Endpoint	Access
Register User	POST	/api/auth/register	Public
Login User	POST	/api/auth/login	Public
Get All Users	GET	/api/users	Admin
Get Single User	GET	/api/users/:id	Admin/User
Update User	PUT	/api/users/:id	Admin/User
Delete User	DELETE	/api/users/:id	Admin/User
Create Appointment	POST	/api/appointments	Patient
Get Appointments	GET	/api/appointments	Doctor/Patient
Update Appointment Status	PUT	/api/appointments/:id	Doctor
Delete Appointment	DELETE	/api/appointments/:id	Doctor/Patient