**API Documentation**

**1. Introduction**

* **Purpose:** To provide a detailed description of the API endpoints for HealthHub.
* **Scope:** Covers all the API endpoints, request/response formats, authentication, and error handling.

**2. Authentication**

* **Login Endpoint**
* **Register Endpoint**

**3. API Endpoints**

* **User Endpoints**
* **Patient Endpoints**
* **Doctor Endpoints**
* **Appointment Endpoints**
* **Medical Record Endpoints**

**4. Request/Response Formats**

* **JSON formats for requests and responses**

**5. Error Handling**

* **Common error responses and their meanings**

**Detailed Overview:**

**1. Introduction**

**1.1 Purpose:** To provide a detailed description of the API endpoints for HealthHub.

**1.2 Scope:** Covers all the API endpoints, request/response formats, authentication, and error handling.

**2. Authentication**

**2.1 Login Endpoint:**

* **URL:** /auth/login
* **Method:** POST
* **Request Body:**

{

"email": "user@example.com",

"password": "password"

}

* **Response Body:**

{

"access\_token": "jwt\_token"

}

**2.2 Register Endpoint:**

* **URL:** /auth/register
* **Method:** POST
* **Request Body:**

{

"email": "user@example.com",

"password": "password",

"role": "patient"

}

* **Response Body:**

{

"id": 1,

"email": "user@example.com",

"role": "patient",

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**3. API Endpoints**

**3.1 User Endpoints:**

**Get User Profile:**

* **URL:** /users/profile
* **Method:** GET
* **Headers:** Authorization: Bearer jwt\_token
* **Response Body:**

{

"id": 1,

"email": "user@example.com",

"role": "patient",

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**3.2 Patient Endpoints:**

**Create Patient:**

* **URL:** /patients
* **Method:** POST
* **Headers:** Authorization: Bearer jwt\_token
* **Request Body:**

{

"user\_id": 1,

"name": "John Doe",

"birthdate": "1980-01-01",

"medical\_history": "None"

}

* **Response Body:**

{

"id": 1,

"user\_id": 1,

"name": "John Doe",

"birthdate": "1980-01-01",

"medical\_history": "None",

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**Get Patient Details:**

* **URL:** /patients/:id
* **Method:** GET
* **Headers:** Authorization: Bearer jwt\_token
* **Response Body:**

{

"id": 1,

"user\_id": 1,

"name": "John Doe",

"birthdate": "1980-01-01",

"medical\_history": "None",

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**3.3 Doctor Endpoints:**

**Create Doctor:**

* **URL:** /doctors
* **Method:** POST
* **Headers:** Authorization: Bearer jwt\_token
* **Request Body:**

{

"user\_id": 2,

"specialty": "Cardiology",

"experience": 10

}

* **Response Body:**

{

"id": 1,

"user\_id": 2,

"specialty": "Cardiology",

"experience": 10,

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**Get Doctor Details:**

* **URL:** /doctors/:id
* **Method:** GET
* **Headers:** Authorization: Bearer jwt\_token
* **Response Body:**

{

"id": 1,

"user\_id": 2,

"specialty": "Cardiology",

"experience": 10,

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**3.4 Appointment Endpoints:**

**Create Appointment:**

* **URL:** /appointments
* **Method:** POST
* **Headers:** Authorization: Bearer jwt\_token
* **Request Body:**

{

"patient\_id": 1,

"doctor\_id": 1,

"date": "2024-01-15T10:00:00.000Z",

"status": "Scheduled"

}

* **Response Body:**

{

"id": 1,

"patient\_id": 1,

"doctor\_id": 1,

"date": "2024-01-15T10:00:00.000Z",

"status": "Scheduled",

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**Get Appointment Details:**

* **URL:** /appointments/:id
* **Method:** GET
* **Headers:** Authorization: Bearer jwt\_token
* **Response Body:**

{

"id": 1,

"patient\_id": 1,

"doctor\_id": 1,

"date": "2024-01-15T10:00:00.000Z",

"status": "Scheduled",

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**3.5 Medical Record Endpoints:**

**Create Medical Record:**

* **URL:** /medical-records
* **Method:** POST
* **Headers:** Authorization: Bearer jwt\_token
* **Request Body:**

{

"patient\_id": 1,

"doctor\_id": 1,

"record": "Patient diagnosed with hypertension.",

"date": "2024-01-15T10:30:00.000Z"

}

* **Response Body:**

{

"id": 1,

"patient\_id": 1,

"doctor\_id": 1,

"record": "Patient diagnosed with hypertension.",

"date": "2024-01-15T10:30:00.000Z",

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**Get Medical Record Details:**

* **URL:** /medical-records/:id
* **Method:** GET
* **Headers:** Authorization: Bearer jwt\_token
* **Response Body:**

{

"id": 1,

"patient\_id": 1,

"doctor\_id": 1,

"record": "Patient diagnosed with hypertension.",

"date": "2024-01-15T10:30:00.000Z",

"created\_at": "2024-01-01T00:00:00.000Z",

"updated\_at": "2024-01-01T00:00:00.000Z"

}

**4. Request/Response Formats**

All requests and responses will use JSON format.

**Request Example:**

{

"email": "user@example.com",

"password": "password"

}

**Response Example:**

{

"access\_token": "jwt\_token"

}

**5. Error Handling**

**Common Error Responses:**

* **400 Bad Request:** Invalid input data.
* **401 Unauthorized:** Authentication failed or JWT token is missing/invalid.
* **403 Forbidden:** Access denied.
* **404 Not Found:** Resource not found.
* **500 Internal Server Error:** Unexpected server error.

**Error Response Format:**

{

"statusCode": 400,

"message": "Invalid input data",

"error": "Bad Request"

}