

Healthcare Management System - API Documentation

This document describes the API endpoints available in the Healthcare Management System.

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1.Authentication API

Login

- URL : /login
- Method : POST
- Request Body :

```
json
{
  "username": "user@example.com",
  "password": "password123"
}
```
- Response : Redirects to dashboard on success, login page with error on failure
- Authentication : None

Register

- URL : /register
- Method : POST
- Request Body :

```
json
{
```

```
"firstName": "John",  
"lastName": "Doe",  
"email": "john@example.com",  
"password": "password123",  
"phoneNumber": "1234567890",  
"role": "PATIENT"  
}
```

- Response: Redirects to login page on success, registration page with error on failure
- Authentication: None

Logout

- URL : /logout
- Method : POST
- Response : Redirects to login page
- Authentication : Required

2. User Profile API

View Profile

- URL : /profile
- Method : GET
- Response : Profile view page with user and patient/doctor information
- Authentication : Required

3. Patient API

View Patient Details

- URL: /patients/{id}
- Method: GET`
- URL Parameters: id=[long] (Patient ID)
- Response: Patient details

- Authentication: Required
- Authorization: DOCTOR or ADMIN role

4. Doctor API

View All Doctors

- URL: /doctors
- Method: GET
- Response: List of available doctors
- Authentication: Required

5. Appointment API

View All Appointments

- URL: /appointments
- Method: GET
- Query Parameters:
 - status=[string] (optional, filter by appointment status)
 - from=[date] (optional, filter by start date)
 - to=[date] (optional, filter by end date)
- Response: List of appointments
- Authentication : Required

View Appointment Details

- URL: /appointments/{id}
- Method: GET
- URL Parameters: id=[long] (Appointment ID)
- Response: Appointment details
- Authentication: Required

Create Appointment Form

- URL: /appointments/new

- Method: GET
- Response: Appointment creation form
- Authentication: Required

Create Appointment

- URL : /appointments/create
- Method : POST
- Request Body : Form data with appointment details
- Response: Redirects to appointments list on success, creation form with error on failure
- Authentication : Required

Cancel Appointment

- URL: /appointments/{id}/cancel
- Method : POST
- URL Parameters : id=[long] (Appointment ID)
- Response : Redirects to appointments list
- Authentication: Required

Complete Appointment

- URL: /appointments/{id}/complete
- Method: POST
- URL Parameters: id=[long] (Appointment ID)
- Request Body: Form data with appointment notes
- Response: Redirects to appointments list
- Authentication: Required
- Authorization: DOCTOR role

6.Medication API

View All Medications

- URL: /medications
- Method: GET

- Response : List of medications
- Authentication: Required

View Medication Details

- URL: /medications/{id}
- Method: GET
- URL Parameters : id=[long] (Medication ID)
- Response : Medication details
- Authentication : Required

Create Medication Form

- URL: /medications/new
- Method: GET
- Response: Medication creation form
- Authentication: Required
- Authorization: DOCTOR role

Create Medication

- URL: /medications/create
- Method: POST
- Request Body: Form data with medication details
- Response: Redirects to medications list on success, creation form with error on failure
- Authentication: Required
- Authorization: DOCTOR role

Update Medication

- URL: /medications/{id}/update
- Method: POST
- URL Parameters: id=[long] (Medication ID)
- Request Body: Form data with updated medication details
- Response: Redirects to medications list
- Authentication: Required

- Authorization: DOCTOR role