

Patient Medicine and Appointment System Documentation

Introduction

This document provides a comprehensive guide on how to set up, configure, and run the Hospital Management System. It includes information on the project's structure, API endpoints, request/response formats, and data validation rules.

Project Setup

1. Clone the Repository: Clone the project repository from GitHub.
2. Navigate to the Project Directory: Open your terminal and navigate to the project directory.
3. Install Dependencies: Run ``mvn install`` to install all required dependencies.
4. Database Configuration: Update the ``application.properties`` file with your database configuration details.
5. Run the Application: Use the command ``mvn spring-boot:run`` or respective IDE like Eclipse or IntelliJ to start the application.

Configuration

The main configuration files are located in the ``src/main/resources`` directory.

1. `application.properties`: Contains database configuration and other environment-specific settings.
2. `SecurityConfig.java`: Configures security settings such as login URL, logout URL, and access permissions.
3. `ConfigWeb.java`: Configures web-specific settings such as hidden HTTP method filters.

API Endpoints

Registration

- **URL**: `/registration`
- **Method**: `POST`
- **Request Body**:

```
```json
{
 "firstName": "string",
 "lastName": "string",
 "email": "string",
 "password": "string"
}
```
```
- **Response**: Redirects to `/registration?success`

Login

- **URL**: `/login`
- **Method**: `GET`
- **Response**: Returns the login page

Home

- **URL**: `/home`
- **Method**: `GET`
- **Response**: Returns the home page

Add Medicine

- **URL**: `/addMedicine`
- **Method**: `GET`
- **Response**: Returns the add medicine form
- **URL**: `/save`
- **Method**: `POST`
- **Request Body**:

```
```json
{
 "medicine": {
 "name": "string",
 "quantity": "integer",
 "patientUserId": "long"
 }
}
```
```
- **Response**: Redirects to `/home`

Display Medicine

- **URL**: `/displayMedicine`
- **Method**: `GET`
- **Response**: Returns the view medicine page

Update Medicine

- **URL**: `/medicineUpdateById`
- **Method**: `GET`
- **Request Params**: `serialNo` (integer)
- **Response**: Returns the update medicine form
- **URL**: `/saveUpdate`
- **Method**: `PUT`
- **Request Body**:

```
```json
{
 "medicine": {
 "serialNo": "integer",
 "quantity": "integer"
 }
}
```
```
- **Response**: Returns the view medicine page

Display Doctors

- **URL**: `/displayDoctors`
- **Method**: `GET`
- **Response**: Returns the view doctors page

Book Appointment

- **URL**: `/bookAppointment/{doctorId}`
- **Method**: `GET`
- **Response**: Returns the appointment booking page
- **URL**: `/saveAppointment`
- **Method**: `POST`
- **Request Body**:

```
```json
{
 "appointment": {
 "doctorId": "integer",
 "patientUserId": "long"
 }
}
```
```
- **Response**: Redirects to `/home`

Display Appointments

- ****URL****: `/displayAppointments`
- ****Method****: `GET`
- ****Response****: Returns the view appointments page

Data Validation Rules

Patient Registration

- `firstName`: Required, String
- `lastName`: Required, String
- `email`: Required, String, must be a valid email format
- `password`: Required, String

Medicine

- `name`: Required, String
- `quantity`: Required, Integer

Appointment

- `doctorId`: Required, Integer
- `patientUserId`: Required, Long

NOTE

I have a Request in this Project One User Configuration only available, So, there is no more ADMIN or CREDENTIAL Separate login Page. AS you, before you run my project You must add Insert table query for doctor details in your database that only you can see doctor availability in appointment section as well in this Document below, I will provide my Insert query You can Use it. When test my application.

Insert QUERY for Doctor Details Your Convenience....,

INSERT INTO doctor_details (available_date, available_slot, available_time, consultation_fee, experience, doctor_name, qualification, specialization)

VALUES

('2024-06-10', 'Morning', '09:00 - 11:00', 100.0, 10, 'Dr. John Doe', 'MD', 'Cardiology'),
('2024-06-11', 'Afternoon', '13:00 - 15:00', 80.0, 8, 'Dr. Jane Smith', 'MBBS', 'Dermatology'),
('2024-06-12', 'Evening', '16:00 - 18:00', 90.0, 12, 'Dr. Richard Roe', 'MS', 'Orthopedics'),
('2024-06-13', 'Morning', '08:00 - 10:00', 120.0, 15, 'Dr. Susan Taylor', 'MD', 'Pediatrics'),
('2024-06-14', 'Afternoon', '14:00 - 16:00', 110.0, 11, 'Dr. Robert Brown', 'MBBS', 'Neurology'),
('2024-06-15', 'Evening', '17:00 - 19:00', 130.0, 20, 'Dr. Emily Davis', 'MS', 'Gynecology'),
('2024-06-16', 'Morning', '10:00 - 12:00', 95.0, 7, 'Dr. Michael Wilson', 'MD', 'Psychiatry'),
('2024-06-17', 'Afternoon', '12:00 - 14:00', 85.0, 9, 'Dr. Sarah Lee', 'MBBS', 'Oncology'),
('2024-06-18', 'Evening', '18:00 - 20:00', 105.0, 13, 'Dr. Christopher White', 'MS', 'Urology'),
('2024-06-19', 'Morning', '07:00 - 09:00', 115.0, 14, 'Dr. Jessica Green', 'MD', 'Ophthalmology');
