

# Patient Medicine and Appointment System Documentation

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## 1. Project Overview

The Patient Medicine and Appointment System is a Spring Boot application that provides functionalities for patients to manage their medications and appointments. The application uses MySQL as the database and Thymeleaf for the frontend.

## 2. Setup and Configuration

### Prerequisites

- JDK 17
- Maven 3.8.6
- MySQL 8.0
- An IDE like IntelliJ or Eclipse

### Clone the Repository

Github link for project repository

[https://github.com/Azhar-Ajum/guvi\\_project](https://github.com/Azhar-Ajum/guvi_project)

### MySQL Configuration

- Create a database named “patient\_medicine\_management” in MySQL workspace

## Update application properties

- Update src/main/resources/application.properties with your MySQL database details in project

```
spring.datasource.url=jdbc:mysql://localhost:3306/ patient_medicine_management
spring.datasource.username=root
spring.datasource.password=your_password
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
```

## Build and Run the application

The application will be available at <http://localhost:8080>

# 3.Functionality Overview

## Home Page

### Description:

- The home page includes options for users to log in or register as a new user.

## User Registration

### Description:

- Allows new users to register by providing their details such as name, age, date of birth, medical history, email, and password.

## User Login

### Description:

- Allows users to log in using their email and password.
- Includes a "Forgot Password" link for users who need to reset their password.

## User Logout

Description:

- Allows users to logout to home page any time
- 

## Forgot Password

Description:

- Allows users to reset their password by entering their email and date of birth.
- Upon successful verification, users can set a new password.

## Profile Page

Description:

- Displays the user's profile information, such as name, age, date of birth, medical history, and email.
- Includes links to the Medication and Appointment pages for further actions.

## Medication Management

Description:

- Allows users to view their medical history and manage their prescriptions.
- Users can add new prescriptions by entering details such as tablet name, when to use, and doctor name.
- Users can edit existing prescriptions to update any information.
- Users can delete prescriptions that are no longer needed.

## Appointment Management

Description:

- Allows users to view their upcoming appointments and appointment history.

- Users can book new appointments by entering details such as doctor name, specialist, and appointment date.
- Displays a list of future appointments with details and options to manage them

## 4.Data Validation Rules

### Patient Entity

#### **Name:**

- Not null
- Minimum length: 2 characters

#### **Age:**

- Not null
- Positive number

#### **Date of Birth:**

- Not null
- Past date

#### **Medical History:**

- Not null

#### **Email:**

- Not null
- Valid email format
- Unique

#### **Password:**

- Not null
- Minimum length: 8 characters

## Medication Entity

### **Tablet Name:**

- Not null

### **When to Use:**

- Not null

### **Doctor Name:**

- Not null

## Appointment Entity

### **Doctor Name:**

- Not null

### **Specialist:**

- Not null

### **Appointment Date:**

- Not null

### **Current Date:**

- Not null
- Current date

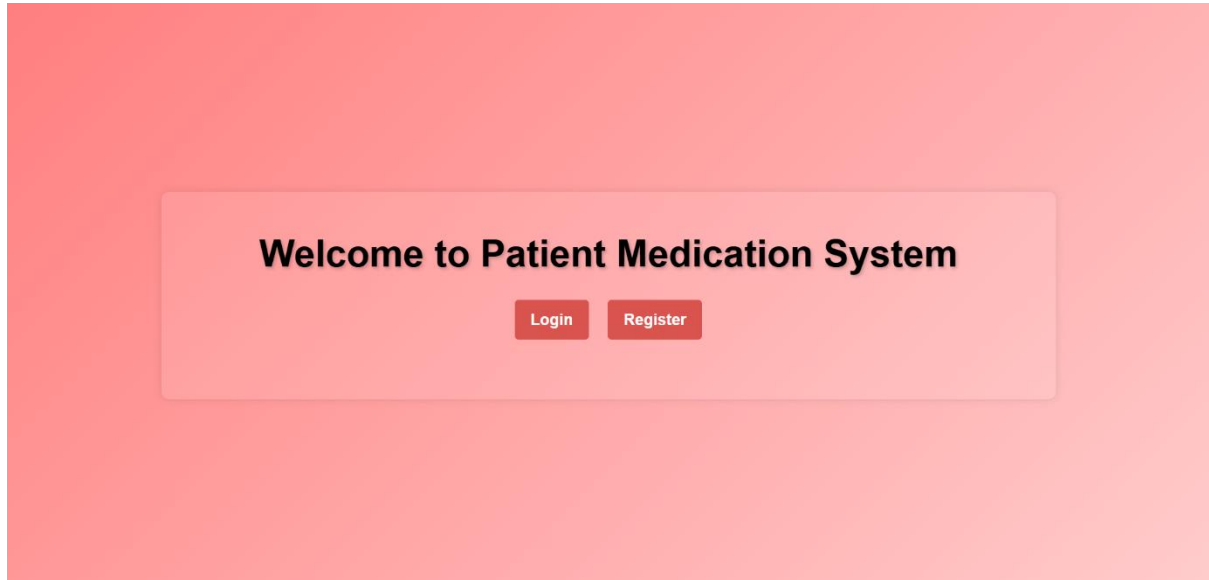
## Error Handling

The application handles validation errors and returns appropriate responses.

## 5.FrontEnd and overview of Application

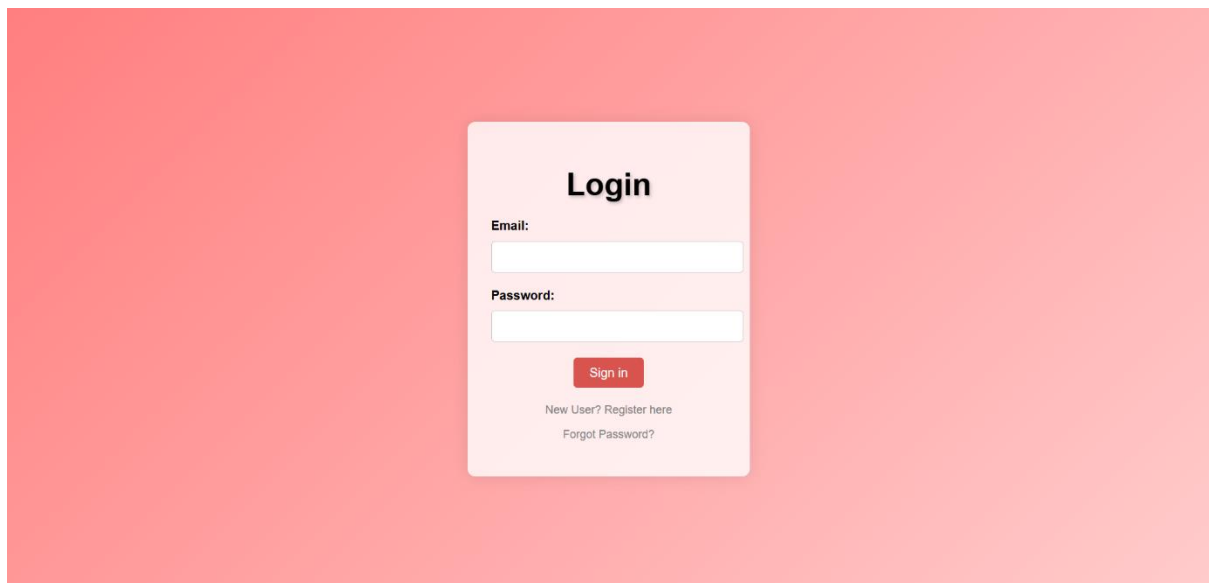
index.html

- localhost:8080/ - home page of application



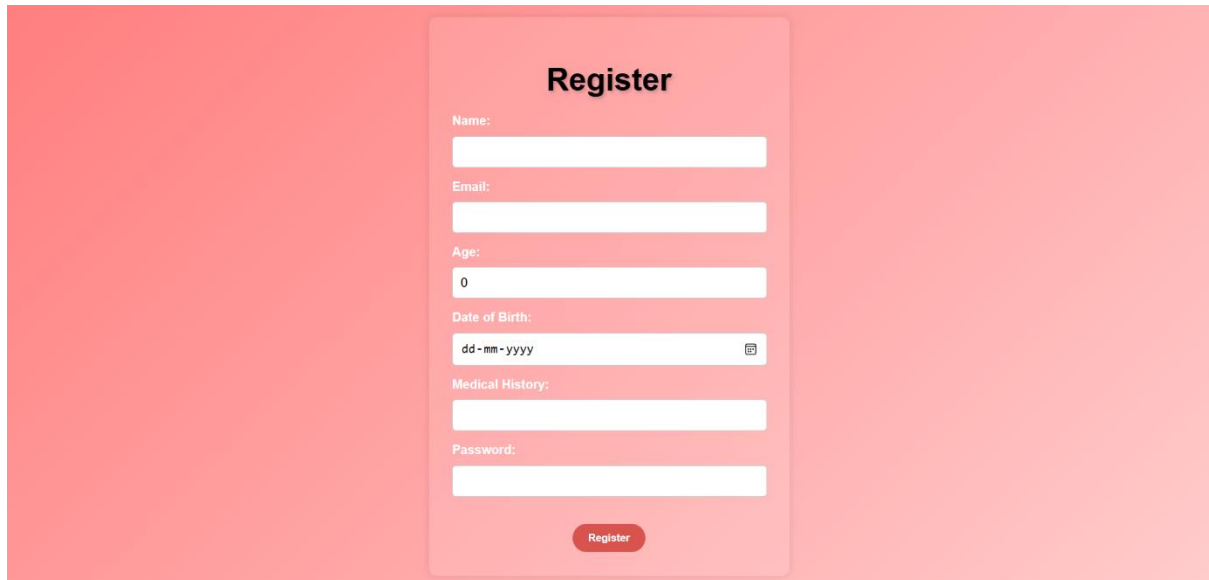
login.html

- localhost:8080/login - login here for old users



## register.html

- localhost:8080/register - for new user to register



The image shows a web form titled "Register" centered on a light pink background. The form is contained within a white rounded rectangle with a subtle shadow. It includes input fields for "Name:", "Email:", "Age:" (with "0" entered), "Date of Birth:" (with a date picker showing "dd-mm-yyyy"), "Medical History:", and "Password:". A red "Register" button is at the bottom.

**Register**

Name:

Email:

Age:

Date of Birth:

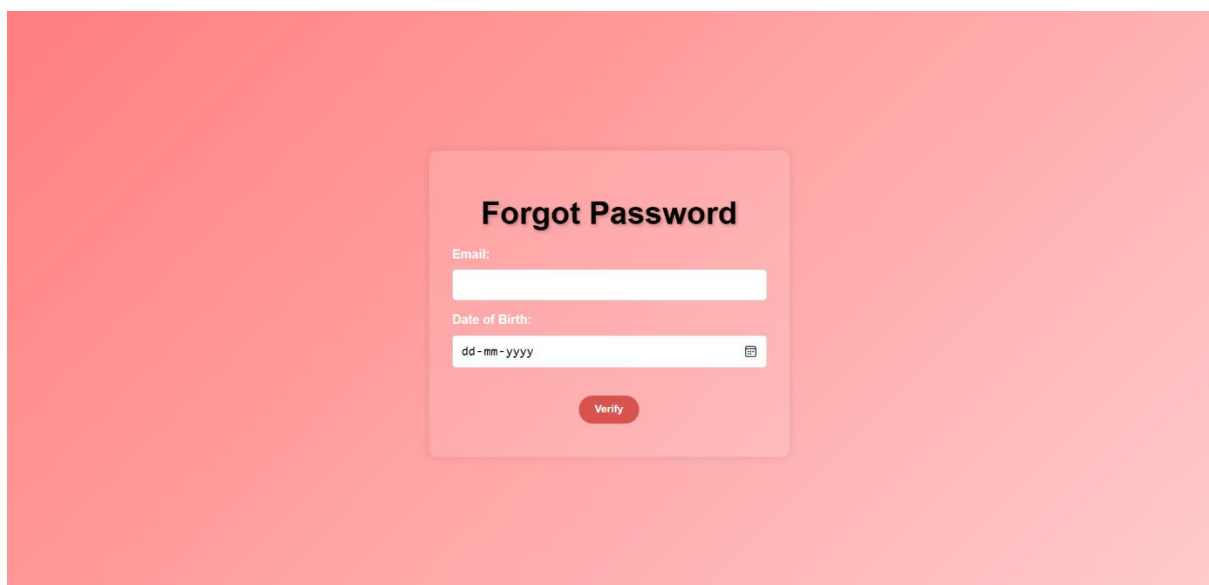
Medical History:

Password:

**Register**

## Forgot-password.html

- localhost:8080/forgot-password – user should enter email and date of birth to reset user password



The image shows a web form titled "Forgot Password" centered on a light pink background. The form is contained within a white rounded rectangle with a subtle shadow. It includes input fields for "Email:" and "Date of Birth:" (with a date picker showing "dd-mm-yyyy"). A red "Verify" button is at the bottom.

**Forgot Password**

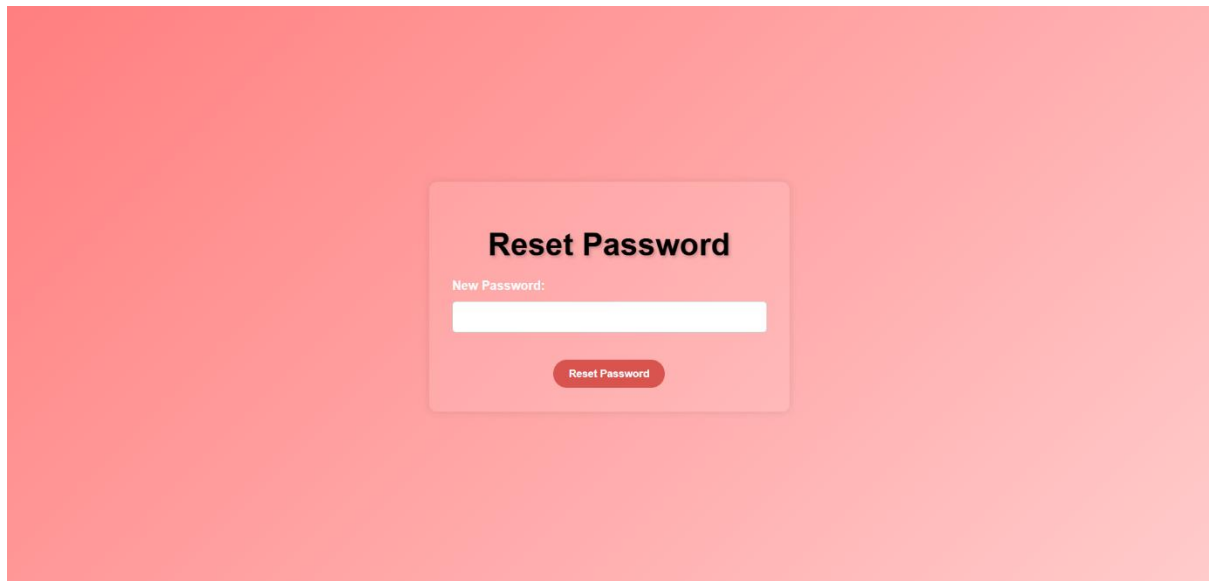
Email:

Date of Birth:

**Verify**

## Forgot-password.html

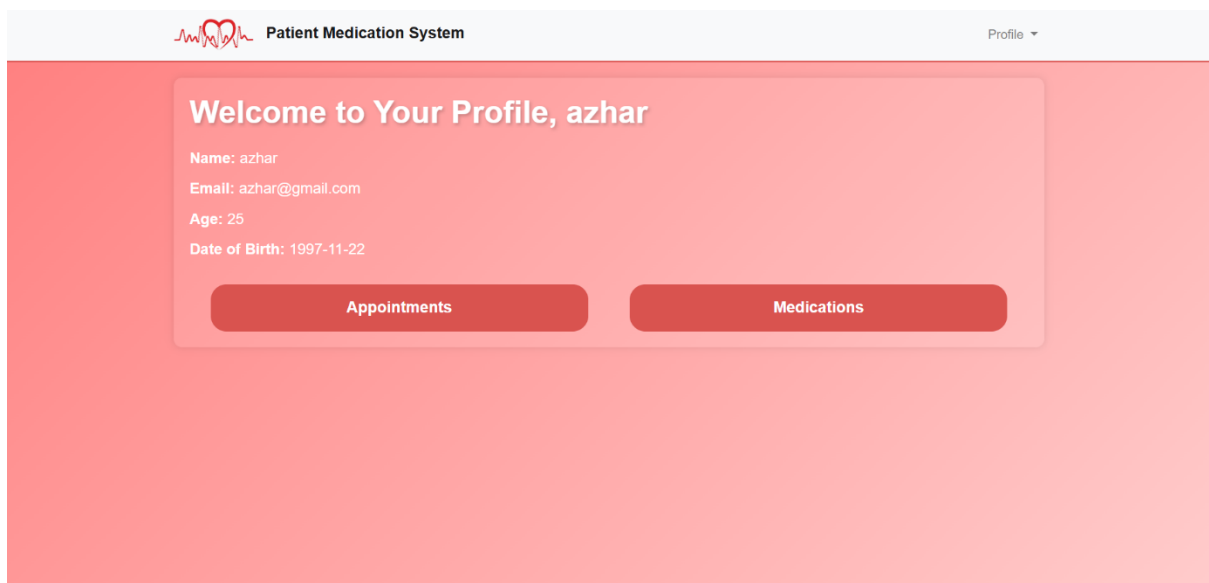
- localhost:8080/forgot-password – user can reset password



The image shows a web form titled "Reset Password" centered on a light red background. The form itself is a white rounded rectangle. It contains a label "New Password:" followed by a white text input field. Below the input field is a red button with the text "Reset Password" in white.

## profile.html

- localhost:8080/profile?email= – particular user profile page




The image shows a user profile page for a "Patient Medication System". At the top is a light blue header bar containing a heart and pulse icon, the text "Patient Medication System", and a "Profile" dropdown menu. The main content area has a light red background. A white rounded rectangle in the center contains the text "Welcome to Your Profile, azhar". Below this, the user's details are listed: "Name: azhar", "Email: azhar@gmail.com", "Age: 25", and "Date of Birth: 1997-11-22". At the bottom of this white box are two red buttons labeled "Appointments" and "Medications".



## appointments.html

- localhost:8080/appointments?email= — user can book their appointment with particular doctor and time
- also user can see upcoming appointments, appointment history and doctor list to book appointment

 Patient Medication System

Profile ▾

### Appointments





#### Upcoming Appointments

| Doctor Name               | Specialist  | Appointment Date | Appointment Time (HH:mm) | Current Date | Current Time (HH:mm) |
|---------------------------|-------------|------------------|--------------------------|--------------|----------------------|
| Dr. Johnson - Neurologist | Neurologist | 20-Jul-2024      | 18:01                    | 10-Jul-2024  | 18:01                |

#### Appointment History

| Doctor Name              | Specialist   | Appointment Date | Appointment Time (HH:mm) | Current Date | Current Time (HH:mm) |
|--------------------------|--------------|------------------|--------------------------|--------------|----------------------|
| Dr. Smith - Cardiologist | Cardiologist | 08-Jul-2024      | 18:01                    | 10-Jul-2024  | 18:01                |

#### Book an Appointment

| Doctor Name | Specialist    | Available Time   | Action  |
|-------------|---------------|------------------|---|
| Dr. Smith   | Cardiologist  | 9:00AM-12PM      | <div>Appointment Date and Time:<br/>dd-mm-yyyy --:-- --<br/></div> <div>Book Appointment</div> |
| Dr. Brown   | Pediatrician  | 3:00PM - 5:00PM  | <div>Appointment Date and Time:<br/>dd-mm-yyyy --:-- --<br/></div> <div>Book Appointment</div> |
| Dr. Davis   | Dermatologist | 4:00PM - 8:00PM  | <div>Appointment Date and Time:<br/>dd-mm-yyyy --:-- --<br/></div> <div>Book Appointment</div> |
| Dr. Miller  | Gynecologist  | 5:00PM - 10:00PM | <div>Appointment Date and Time:<br/>dd-mm-yyyy --:-- --<br/></div> <div>Book Appointment</div> |

#### Total Booked Appointments

| Doctor Name               | Specialist   | Appointment Date | Appointment Time (HH:mm) | Current Date | Current Time (HH:mm) |
|---------------------------|--------------|------------------|--------------------------|--------------|----------------------|
| Dr. Johnson - Neurologist | Neurologist  | 20-Jul-2024      | 18:01                    | 10-Jul-2024  | 18:01                |
| Dr. Smith - Cardiologist  | Cardiologist | 08-Jul-2024      | 18:01                    | 10-Jul-2024  | 18:01                |

Back to Profile

## medications.html

- localhost:8080/medications?email= – user can see about their medical history
- user can see doctor prescribed medicine
- can add or edit or delete medicine

**Medication**

**Medical History**  
Asthma

**Medicine Details**

| Tablet Name | When to Use | Doctor Name | Action  |
|-------------|-------------|-------------|---|
| paracetomal | morning     | ajum        | <button>Update</button> <button>Delete</button> |
| vicks       | night       | ajum        | <button>Update</button> <button>Delete</button> |

**Add Medicines**

Tablet Name:

When to Use:

Doctor Name:

Add Medication

Back to Profile

## 6.Conclusion

This documentation provides an overview of the Patient Medicine and Appointment System, including setup, configuration, running the application, and data validation rules. Follow the provided instructions to get the application up and running. For any issues, refer to the official Spring Boot and MySQL documentation.