# Patient Medicine and Appointment System

## Project Setup

1. Clone the repository:

```bash

git clone https://github.com/yourusername/patient-app.git

cd patient-app

```

2. Update `application.properties` with your MySQL database credentials:

```properties

spring.datasource.url=jdbc:mysql://localhost:3306/patient

spring.datasource.username=root

spring.datasource.password=Amaanish@8

```

3. Build and run the project:

```bash

mvn clean install

mvn spring-boot:run

```

## API Endpoints

### User Registration

- \*\*URL:\*\* `/api/patients/register`

- \*\*Method:\*\* `POST`

- \*\*Request Body:\*\*

```json

{

"name": "Amaan Basha",

"contact": "123456789"

}

```

- \*\*Response:\*\*

```json

{

"id": 1,

"name": "Amaan Basha",

"contact": "123456789"

}

```

### View Patient

- \*\*URL:\*\* `/api/patients/{id}`

- \*\*Method:\*\* `GET`

- \*\*Response:\*\*

```json

{

"id": 1,

"name": "Amaan Basha",

"contact": "123456789"

}

```

### Book Appointment

- \*\*URL:\*\* `/api/appointments/book`

- \*\*Method:\*\* `POST`

- \*\*Request Body:\*\*

```json

{

"patient": {"id": 1},

"doctor": {"id": 1},

"appointmentTime": "2023-04-06T10:30:00"

}

```

- \*\*Response:\*\*

```json

{

"id": 1,

"patient": {"id": 1, "name": "Amaan Basha"},

"doctor": {"id": 1, "name": "Dr. Smith", "specialty": "Cardiology"},

"appointmentTime": "2023-04-06T10:30:00"

}

```

### Add Medication

- \*\*URL:\*\* `/api/medications`

- \*\*Method:\*\* `POST`

- \*\*Request Body:\*\*

```json

{

"name": "Medicine A",

"dosage": "2 tablets",

"patient": {"id": 1}

}

```

- \*\*Response:\*\*

```json

{

"id": 1,

"name": "Medicine A",

"dosage": "2 tablets",

"patient": {"id": 1, "name": "Amaan Basha"}

}

```

### Get All Medications

- \*\*URL:\*\* `/api/medications`

- \*\*Method:\*\* `GET`

- \*\*Response:\*\*

```json

[

{

"id": 1,

"name": "Medicine A",

"dosage": "2 tablets",

"patient": {"id": 1, "name": "John Doe"}

}

]

```

### Remove Medication

- \*\*URL:\*\* `/api/medications/{id}`

- \*\*Method:\*\* `DELETE`

- \*\*Response:\*\* `204 No Content`

## Testing

Run the unit tests:

```bash

mvn test