

# Clinic Appointment Scheduler

Dhawani Patel  
@DannyLC101 on GitHub

# Description

- A web application for clinic where a doctor can create an appointment slots and patients can book an appointment online.
- New patient can register as a new user and book an appointment.
- Doctor can create slots of appointment (i.e. date and time).
- Slots created by doctor can be booked by patient as an appointment.



# Features

- An MVC application secured with Spring Security and Basic Authentication.
- Spring Security Dialect (i.e. Thymeleaf Security) to conditionally display content based on user roles, permissions or other security expressions.
- Java Bean Validations to validate user inputs.
- CRUDRepository for basic query abstraction.
- Javascript for Date-time picker.



# Planning - User Stories

Doctor should be able to “Create new appointment slots”.

Patient should be able to “Schedule appointment from existing slots”.

New patient should be able to sign up in order to book appointment.

Doctor should be authenticated to view all appointments.



# Planning - Database

Database:

- Users – for id, username, password
- User\_appointment – for id, username, appointment(date-time), status
- User\_roles – for username and their roles

These database are linked in one-to-one and many-to-many relationship.



# Technology Stack

- Java 8
- Spring Boot
- Thymeleaf
- Hibernate
- MySQL
- Spring Security, Thymeleaf Security
- HTML, CSS along with Bootstrap



# Demo



# What I Learned

- Authenticating user with Basic Security and Spring Security
- Assigning role to different types of user and display content accordingly
- Java Bean Validations to get valid user input
- JavaScript for Date-time picker





# What's Next

- Appearance improvement with CSS
- Learn more about Spring Security
- Learn more about Thymeleaf Security

