Spring Data JPA (h2, MySQL & Postgres DB)

H2- In memory Database (Written in JAVA, 2mb in size)

MySQL 8.0.x Community version (mysql command line client, MySQL Workbench)

Postgres 12.x (psql, pgAdmin)

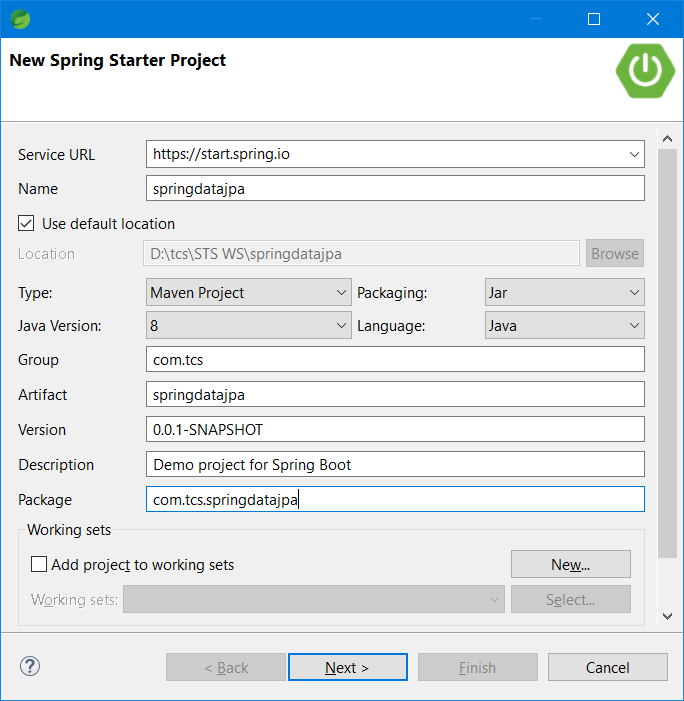
Web Service using Spring Data JPA

JPA – Java Persistence API (Hibernate, Eclipse Link)

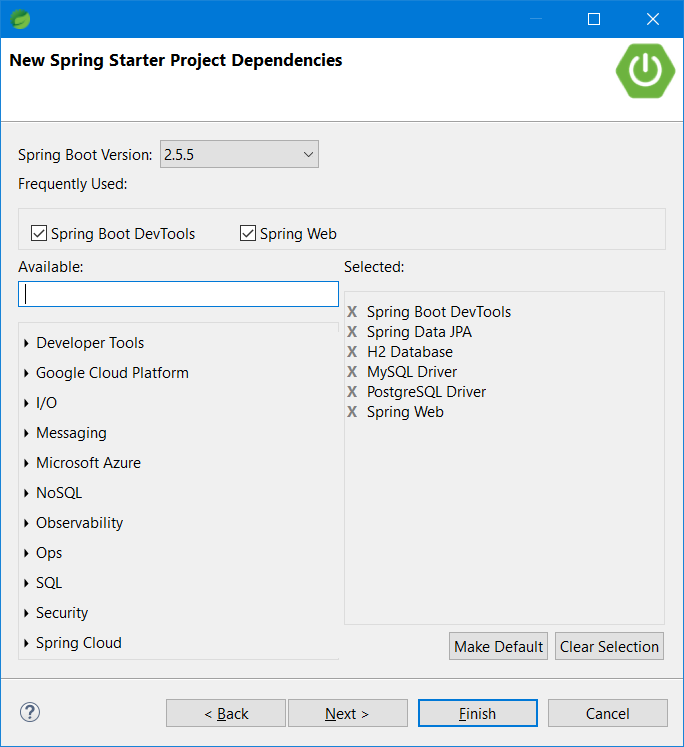
Step 1: Create a new Spring Starter project in STS

File->New->Spring Starter Project

“springdatajpa”



Add the following dependencies to the project and click finish.

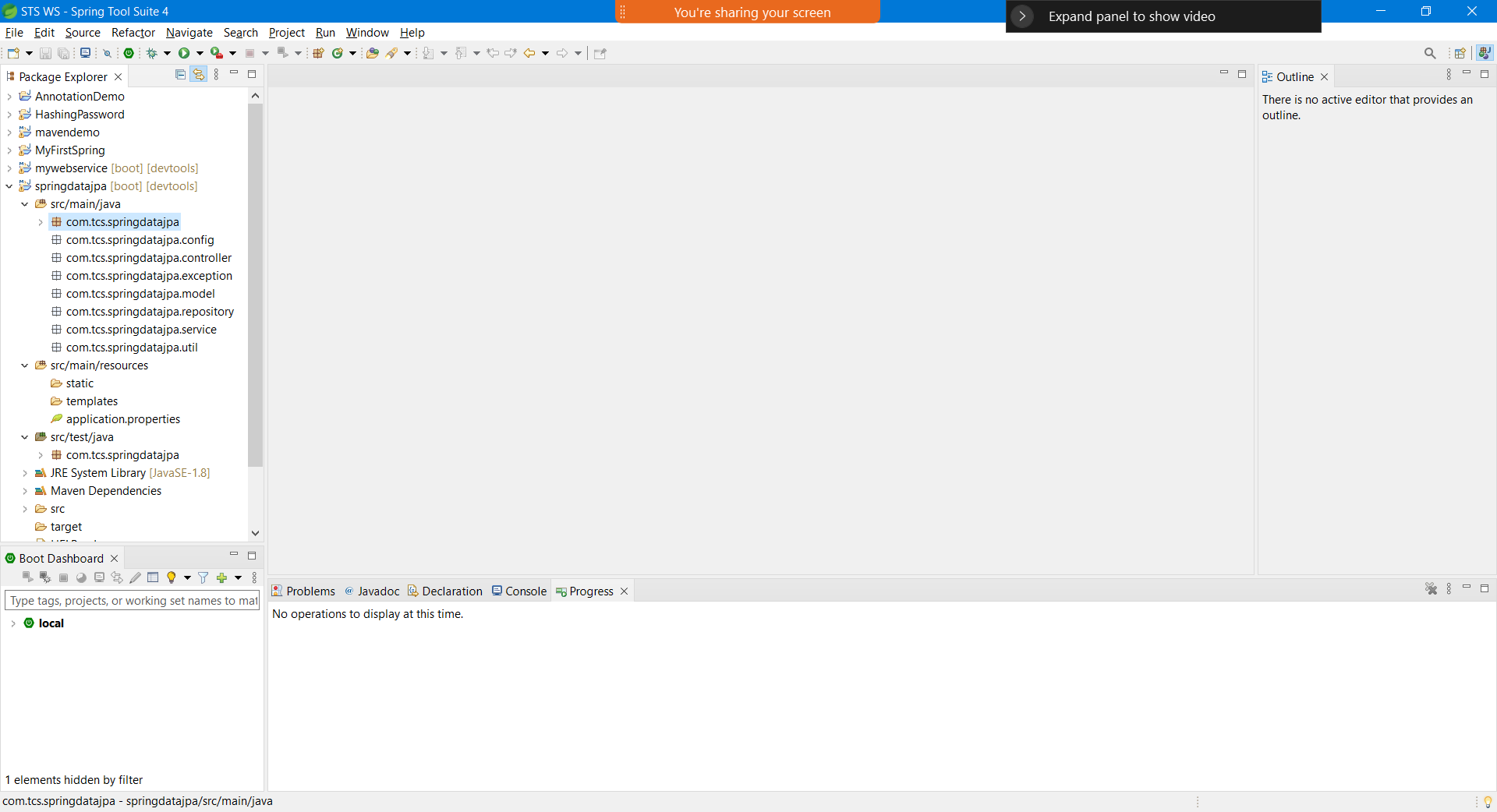


Add the following packages

Base package – com.tcs.springdatajpa

Sub packages- model, controller, repository, service, util, exceptions, config

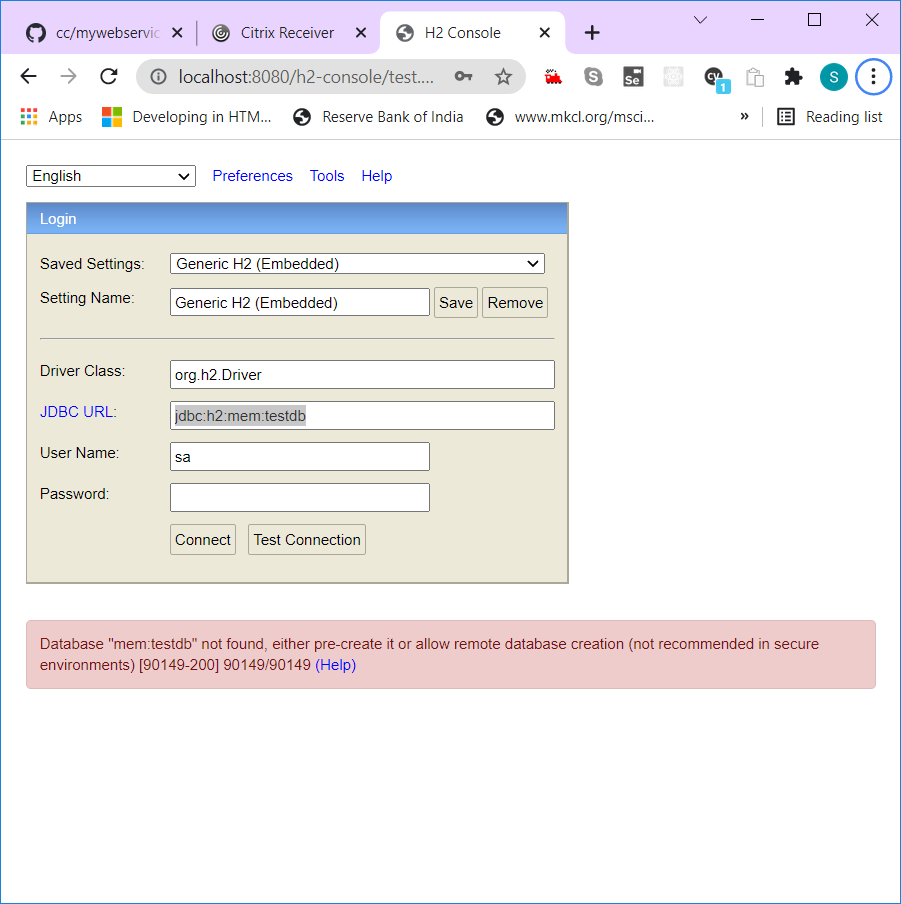
Step 2: Adding necessary sub-packages to the base package

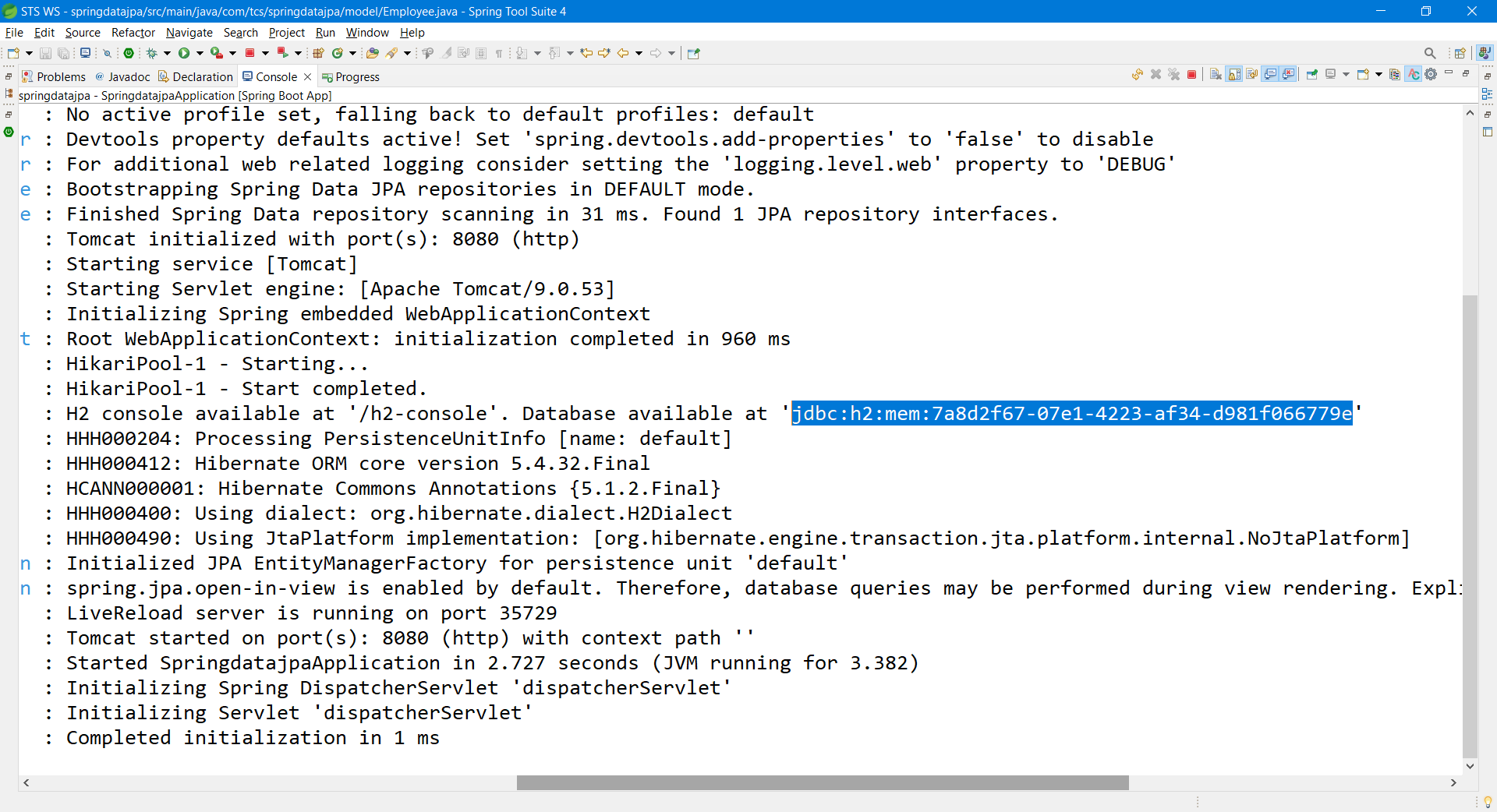


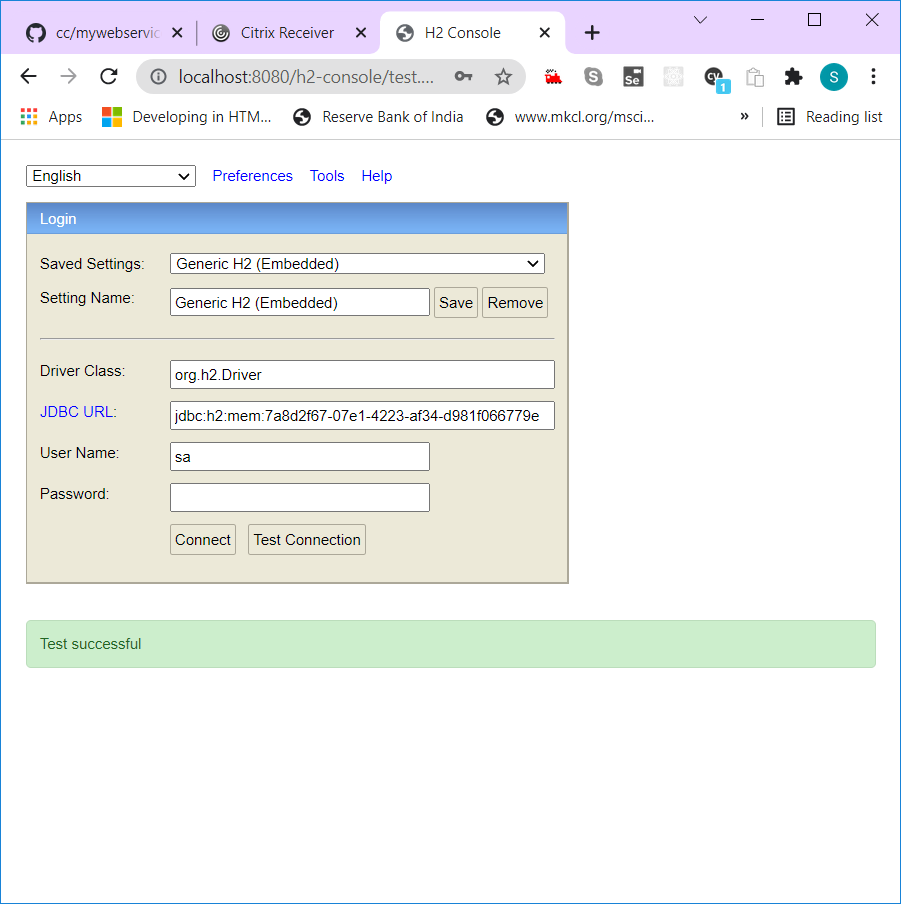
Step 3: Adding the model Class, Service Interface & Class and Controller class code.

Repository – DAO Implementation (Data Access Object)

Interface <repo\_name> extends jparepo or crudrepo







Ctrl+/ -- Toggle Comment (jsp,java, properties,js except xml)

API Documentation using Swagger

Add few dependencies in the pom.xml and add few annotations.

Mvnrepository.com

Springfox swagger2

<dependency>

<groupId>io.springfox</groupId>

<artifactId>springfox-swagger2</artifactId>

<version>2.9.2</version>

</dependency>

Add @EnableSwagger2 annotation in the starter class.

<http://localhost:8080/v2/api-docs> - hit this endpoint to see API Documentation

<dependency>

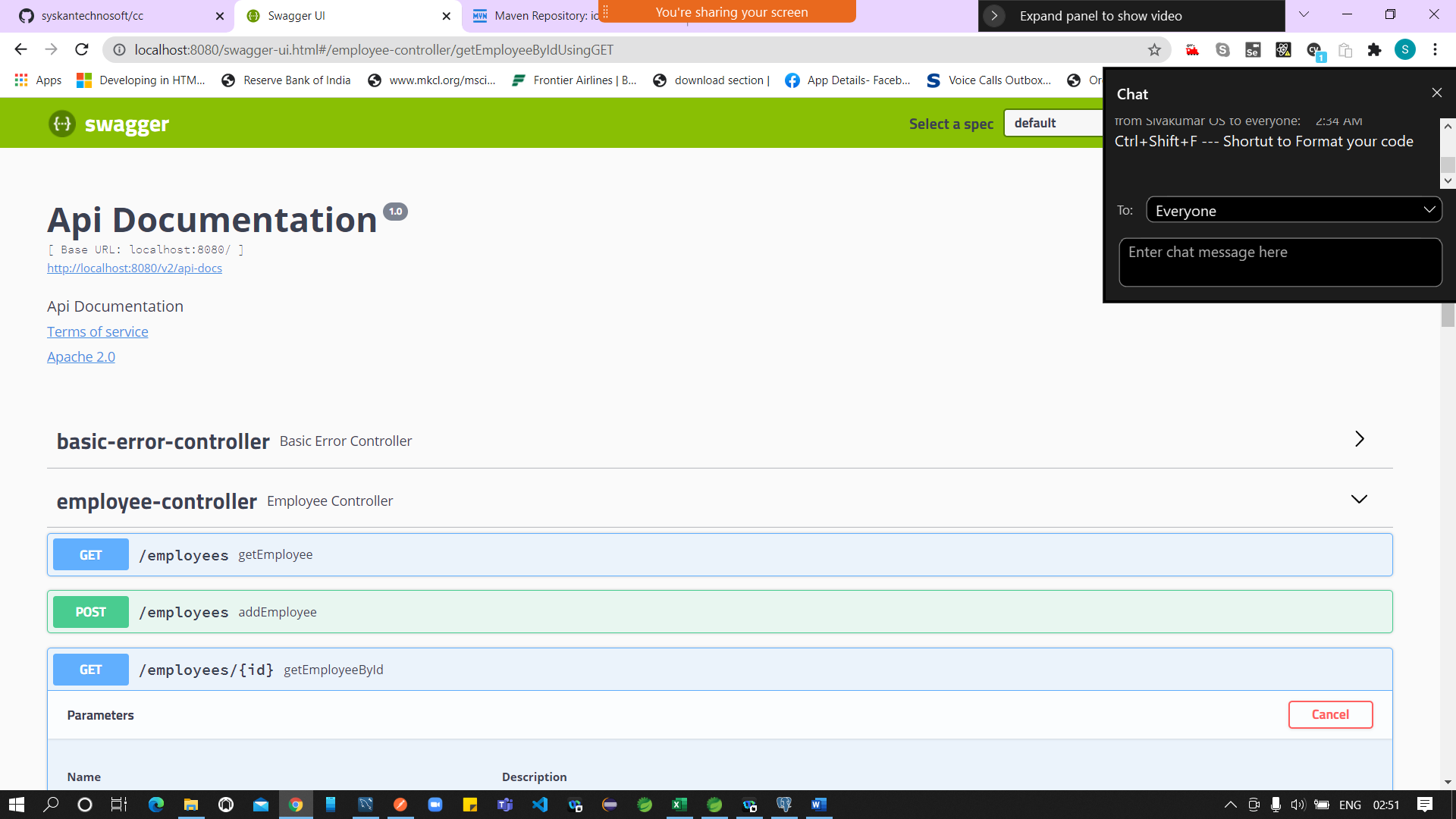
<groupId>io.springfox</groupId>

<artifactId>springfox-swagger-ui</artifactId>

<version>2.9.2</version>

</dependency>

<http://localhost:8080/swagger-ui.html>



<https://start.spring.io> -- Spring Initializr URL

Adding Spring Security to the project

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-security</artifactId>

</dependency>

<dependency>

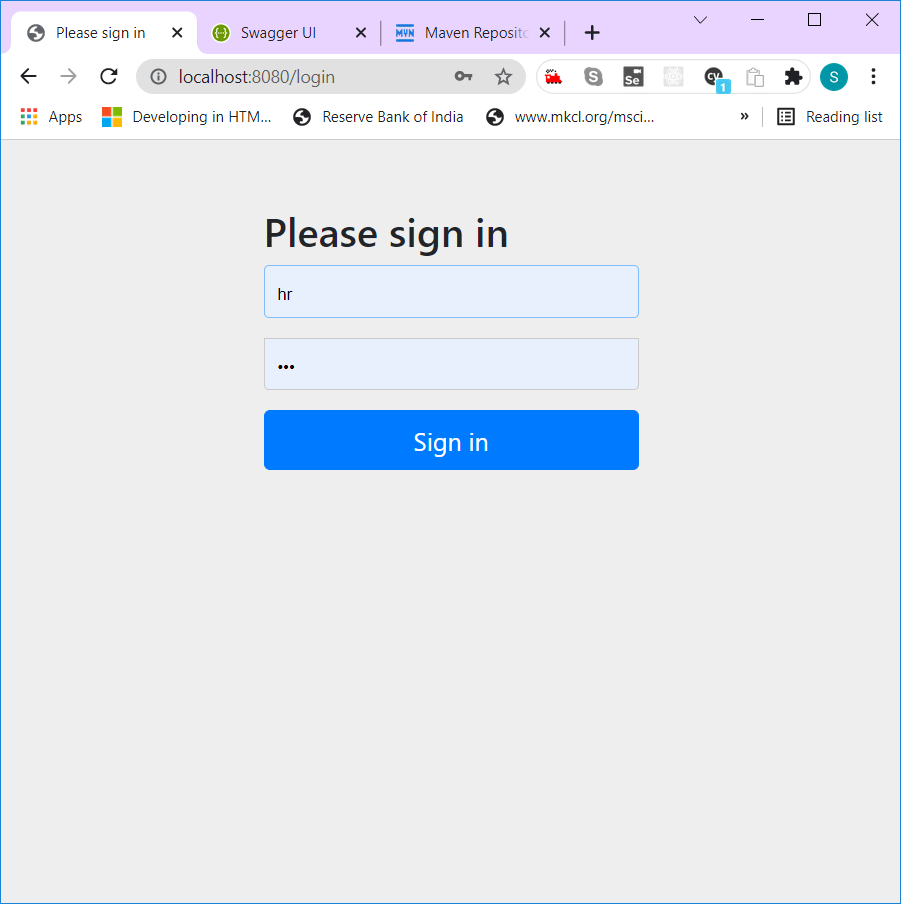
<groupId>org.springframework.security</groupId>

<artifactId>spring-security-test</artifactId>

<scope>test</scope>

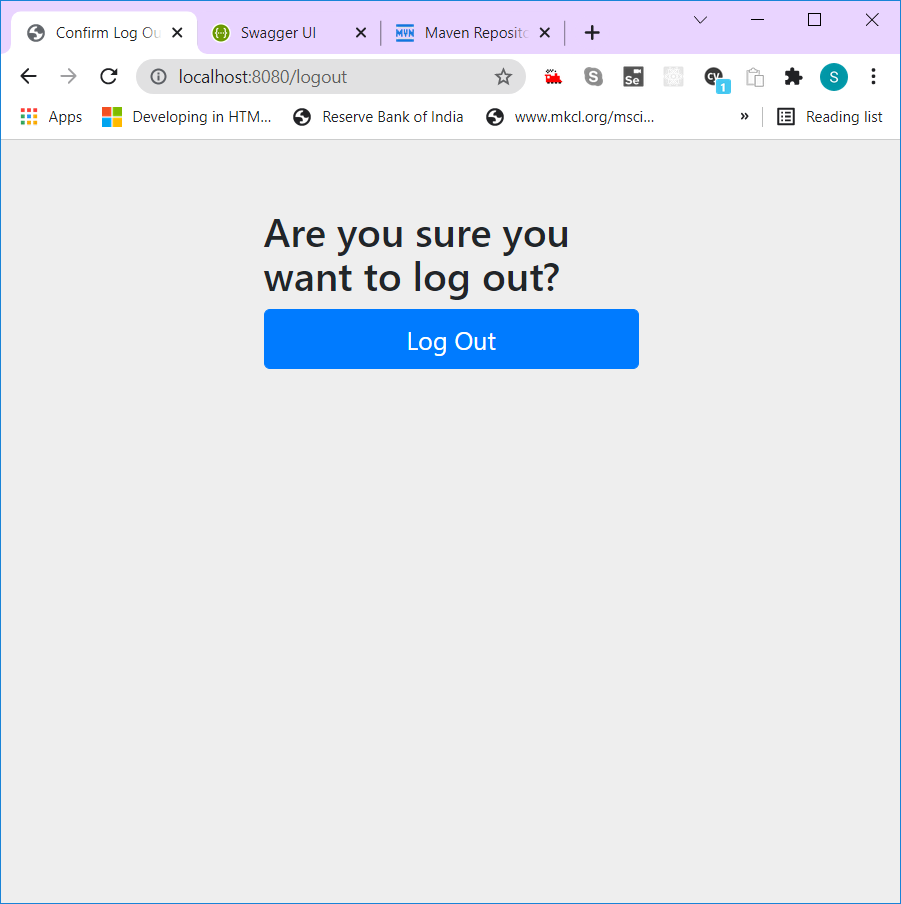
</dependency>

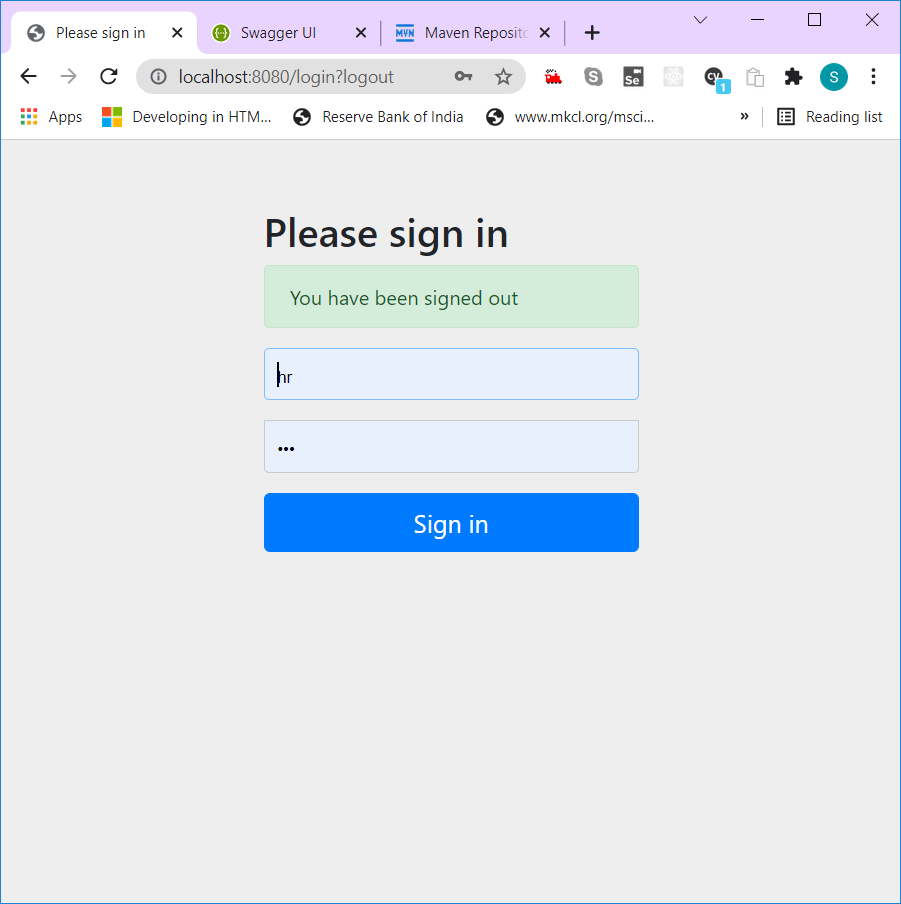
Two new endpoints /login /logout (/login - GUI – Login Form, username and password ) user & password is automatically generated while starting the applicatuion.



Default username is : user

Password is : auto-generated and printed in the console (e4952717-46c1-416f-9a16-f604dde56817)





Food Items

id name category price added-on(date) active(0/1)

Cart

order\_id user\_id(fk) item\_id(fk) qty price (calculated column)

Ratings

rating\_id user\_id(fk) item\_id(fk) rating (float value 0.0 -5.0) lastUpdateOn(Date)

Users

user\_id, username, password, email, mobile, role\_id(fk)

Roles

Id, name

1 Admin

2 customer

3 employee

Add Swagger and Security Dependencies

Add 3 DB support in your spring boot project

FoodOnMobile

5 controllers

5 Repositories

5 Service(I) ServiceImpl[C]

5 model (C]

<https://www.javainterviewpoint.com/spring-data-jpa-one-to-many/> adding foreign key in spring data jpa

<https://www.baeldung.com/jpa-one-to-one>