**Phase-3 Practice Project: Assisted Practice –**

**4.Creating and running on Https on browser**

**Source Code:**

**SpringSslApplication.java:**

**package** com.ecommerce;

**import** org.springframework.boot.SpringApplication;

**import** org.springframework.boot.autoconfigure.SpringBootApplication; **import** org.springframework.context.annotation.ComponentScan;

@SpringBootApplication @ComponentScan("com.ecommerce") **public** **class** SpringSslApplication {

**public** **static** **void** main(String[] args) {

SpringApplication.*run*(SpringSslApplication.**class**, args);

}

}

**MainController.java:**

**package** com.ecommerce.controllers;

**import** org.springframework.beans.factory.annotation.Autowired; **import** org.springframework.stereotype.Controller; **import** org.springframework.stereotype.Repository; **import** org.springframework.web.bind.annotation.RequestMapping; **import** org.springframework.web.bind.annotation.ResponseBody;

@Controller

**public** **class** MainController {

@Autowired

**private** ProductRepository repository;

@RequestMapping("/") @ResponseBody **public** String index() {

**return** "This is running under SSL";

}

}

**ProductRepository.java:**

**package** com.ecommerce.controllers;

**import** org.springframework.stereotype.Repository;

@Repository

**public** **class** ProductRepository {

}

**application.properties:**

server.port=8443

server.ssl.key-alias=selfsigned\_localhost\_sslserver server.ssl.key-password=changeit server.ssl.key-store=classpath:ssl-server.jks server.ssl.key-store-provider=SUN server.ssl.key-store-type=JKS

**To generate ssl-server.jks:**

In the terminal window of your computer, type the following command:

keytool -genkey -alias selfsigned\_localhost\_sslserver -keyalg RSA -keysize 2048 -validity 700 -keypass changeit -storepass changeit -keystore ssl-server.jks

For first and last name, enter localhost

For organizational unit, enter Website

For name of your organization, enter Website

For city or locality, enter New York

For State or Province, enter NY

For two-letter country code, enter US

For final confirmation, enter yes

This will create a file called ssl-server.jks in your current working directory

Copy this file into the src->main->resources folder

**Output:**

