# 4.Creating and running on Https on browser

## 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