WEEK 4_3 SOLUTONS

Securing RESTful Web Services with Spring Security

```
SpringLearnApplication.java:

package com.cognizant.spring_learn;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class SpringLearnApplication {

   public static void main(String[] args) {
      SpringApplication.run(SpringLearnApplication.class, args);
   }
}
```

```
SecurityConfig.class:
package com.cognizant.spring learn.security;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.web.SecurityFilterChain;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.Customizer;
@Configuration
@EnableWebSecurity
public class SecurityConfig {
  @Bean
  public SecurityFilterChain filterChain(HttpSecurity http) throws Exception {
    http
        .authorizeHttpRequests(auth -> auth
             .anyRequest().authenticated()
```

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```

Hands on 2

REST - Country Web Service

```
SpringLearnApplication.java:

// Shaik Shafana Shihaam
package com.cognizant.spring_learn;

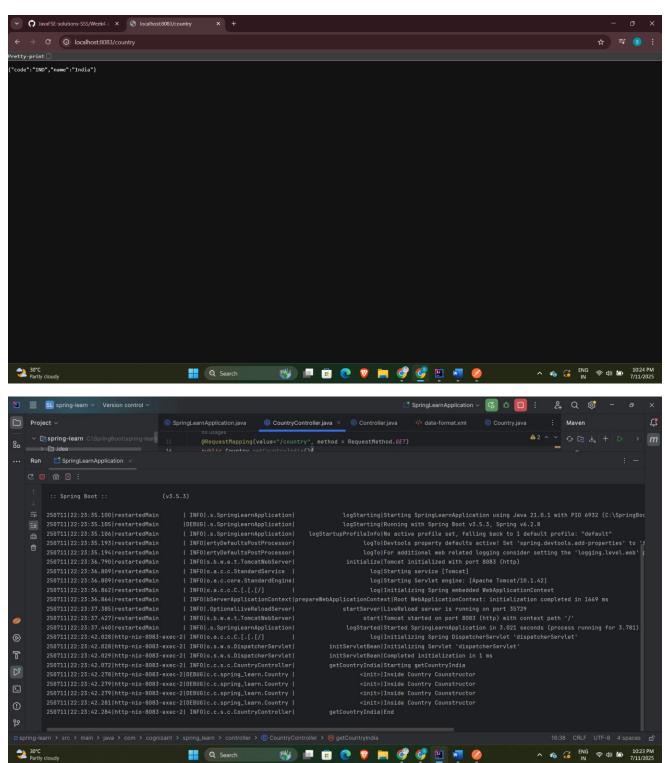
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

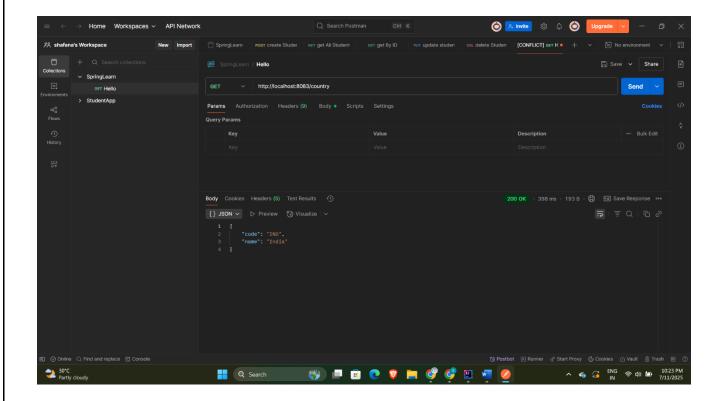
@SpringBootApplication
public class SpringLearnApplication {

public static void main(String[] args) {
    SpringApplication.run(SpringLearnApplication.class, args);
    }
}
```

```
CountryController.class
package com.cognizant.spring learn.controller;
import com.cognizant.spring_learn.Country;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class CountryController {
  private static final Logger LOGGER = LoggerFactory.qetLogger(CountryController.class);
  @RequestMapping(value="/country", method = RequestMethod. GET)
  public Country getCountryIndia(){
    LOGGER.info("Starting getCountryIndia");
    ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");
    Country country = context.getBean("in",Country.class);
    LOGGER.info("End");
    return country;
```

```
}
}
```





Hands on 3

REST - Get all countries

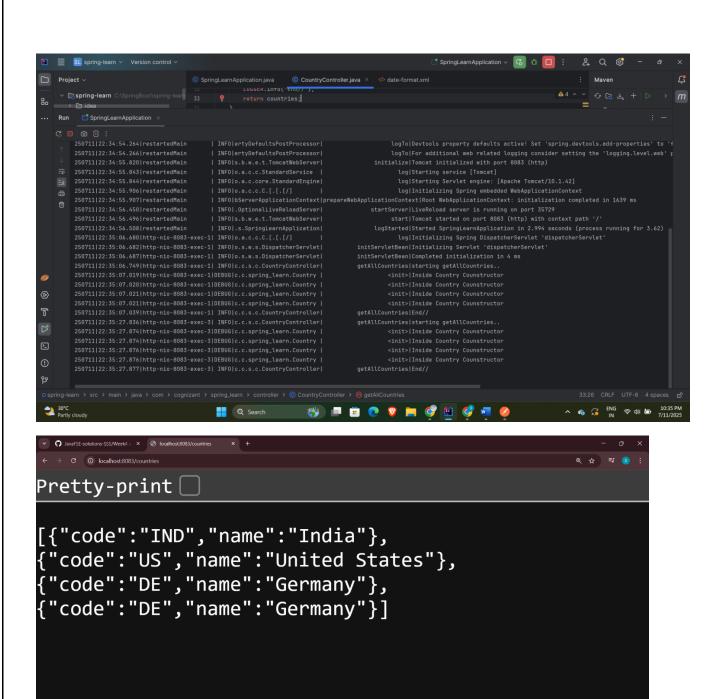
```
CountryController.java

// Shaik Shafana Shihaam

package com.cognizant.spring_learn.controller;

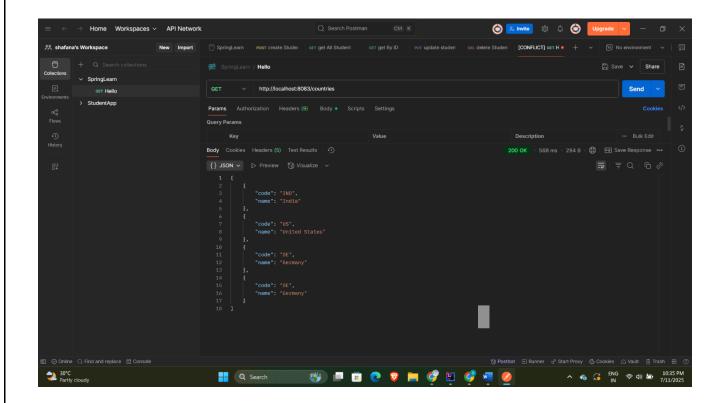
import com.cognizant.spring_learn.Country;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
```

```
import org.springframework.web.bind.annotation.RestController;
import java.util.List;
@RestController
public class CountryController {
  private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);
  @RequestMapping(value="/country", method = RequestMethod.GET)
  public Country getCountryIndia(){
    LOGGER.info("Starting getCountryIndia");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    Country country = context.getBean("in",Country.class);
    LOGGER.info("End");
    return country;
  }
  @GetMapping("/countries")
  public List<Country> getAllCountries(){
    LOGGER.info("starting getAllCountries..");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    List<Country> countries = context.getBean("countryList",List.class);
    LOGGER.info("End//");
    return countries;
  }
```



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Hands on 4

REST - Get country based on country code

```
CountryController.class:
package com.cognizant.spring_learn.controller;
import com.cognizant.spring_learn.Country;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@RestController
public class CountryController {
  private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);
  @RequestMapping(value="/country", method = RequestMethod.GET)
  public Country getCountryIndia(){
    LOGGER.info("Starting getCountryIndia");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    Country country = context.getBean("in",Country.class);
    LOGGER.info("End");
    return country;
  }
  @GetMapping("/countries/{code}")
  public Country getCountry(@PathVariable String code){
    LOGGER.info("Starting getCountry by specific code");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    Country country = context.getBean(code,Country.class);
    LOGGER.info("End//");
    return country;
  @GetMapping("/countries")
```

```
public List<Country> getAllCountries(){
    LOGGER.info("starting getAllCountries..");
    ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");
    List<Country> countries = context.getBean("countryList",List.class);
    LOGGER.info("End//");
    return countries;
}
```

