Spring Security

1.myconfig.java

```
package com.example.demo;

import org.springframework.context.annotation.Configuration;

importorg.springframework.web.servlet.config.annotation.ViewContr
ollerRegistry;

importorg.springframework.web.servlet.config.annotation.WebMvcC
onfigurer;

@Configuration

public class MyConfig implements WebMvcConfigurer {

   @Override

   public void addViewControllers(ViewControllerRegistry registry) {

      registry.addViewController("/home").setViewName("home");

      registry.addViewController("/").setViewName("home");

      registry.addViewController("/hello").setViewName("hello");

      registry.addViewController("/login").setViewName("login");

   }

}
```

2.security2Application

```
package com.example.demo;

import org.springframework.boot.SpringApplication;

importorg.springframework.boot.autoconfigure.SpringBootApplicatio
n;

@SpringBootApplication
```

```
public class security2Application
{
public static void main(String[] args)
{
SpringApplication.run(security2Application.class, args);
}
}
```

3.webSecurity

```
package com.example.demo;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
importorg.springframework.security.config.annotation.web.builders.HttpSecurity;
importorg.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.core.userdetails.User;
import org.springframework.security.core.userdetails.UserDetails;
importorg.springframework.security.core.userdetails.UserDetailsService;
importorg.springframework.security.provisioning.InMemoryUserDetailsManager;
import org.springframework.security.web.SecurityFilterChain;
@Configuration
@EnableWebSecurity
public class webSecurity {
```

```
    @Bean
    public SecurityFilterChain securityFilterChain(HttpSecurity http)
throws Exception {
        http
            .authorizeHttpRequests(requests -> requests
                .requestMatchers("/", "/home").permitAll()
                .anyRequest().authenticated())
            .formLogin(form -> form
                .loginPage("/login")
                .permitAll())
            .logout(logout -> logout
                .permitAll());

        return http.build();
    }

    @Bean
    public UserDetailsService userDetailsService() {
        UserDetails user1 = User.withDefaultPasswordEncoder()
            .username("user1")
            .password("password1")
            .roles("USER")
            .build();
```

```
        UserDetails user2 = User.withDefaultPasswordEncoder()
            .username("user2")
            .password("password2")
            .roles("ADMIN")
            .build();

        return new InMemoryUserDetailsManager(user1, user2);
    }
}
```

4.Hello.html

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="http://www.thymeleaf.org"
      xmlns:sec="http://www.thymeleaf.org/thymeleaf-extras-springsecurity6">
<head>
    <title>Hello World!</title>
</head>
<body>
    <h1 th:inline="text">
        Hello <span th:remove="tag" sec:authentication="name">thymeleaf</span>!
    </h1>
    <form th:action="@{/logout}" method="post">
```

```
        <input type="submit" value="Sign Out"/>
    </form>
</body>
</html>
```

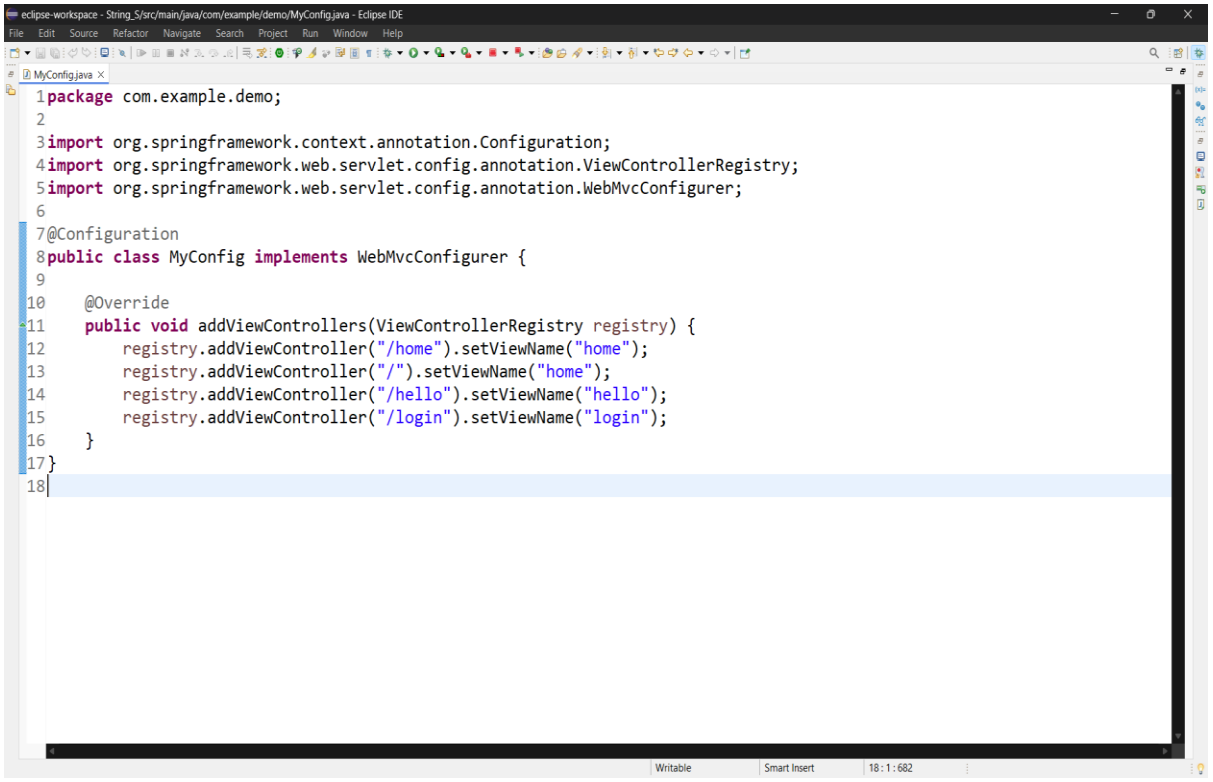
5.Home.html

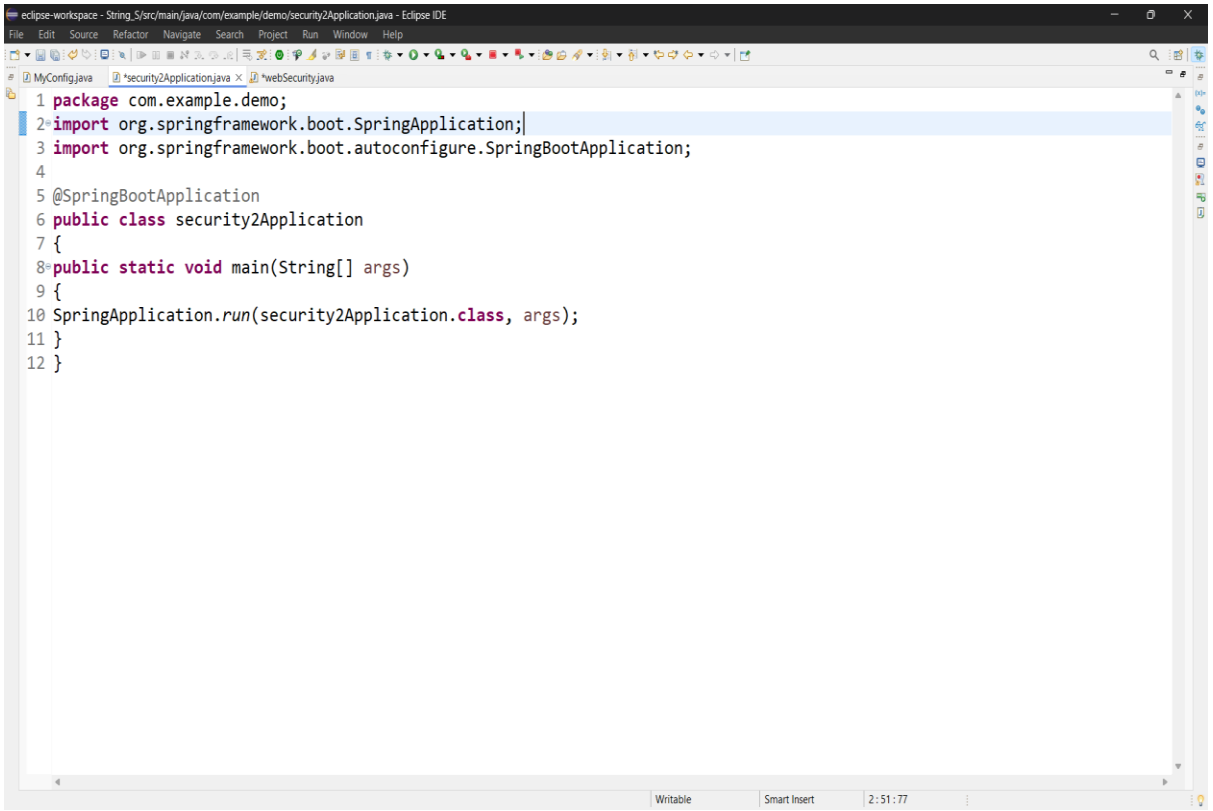
```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="http://www.thymeleaf.org">
<head>
    <title>Spring Security Example</title>
</head>
<body>
    <h1>Welcome!</h1>
    <p>Click <a th:href="@{/hello}">here</a> to see a greeting.</p>
</body>
</html>
```

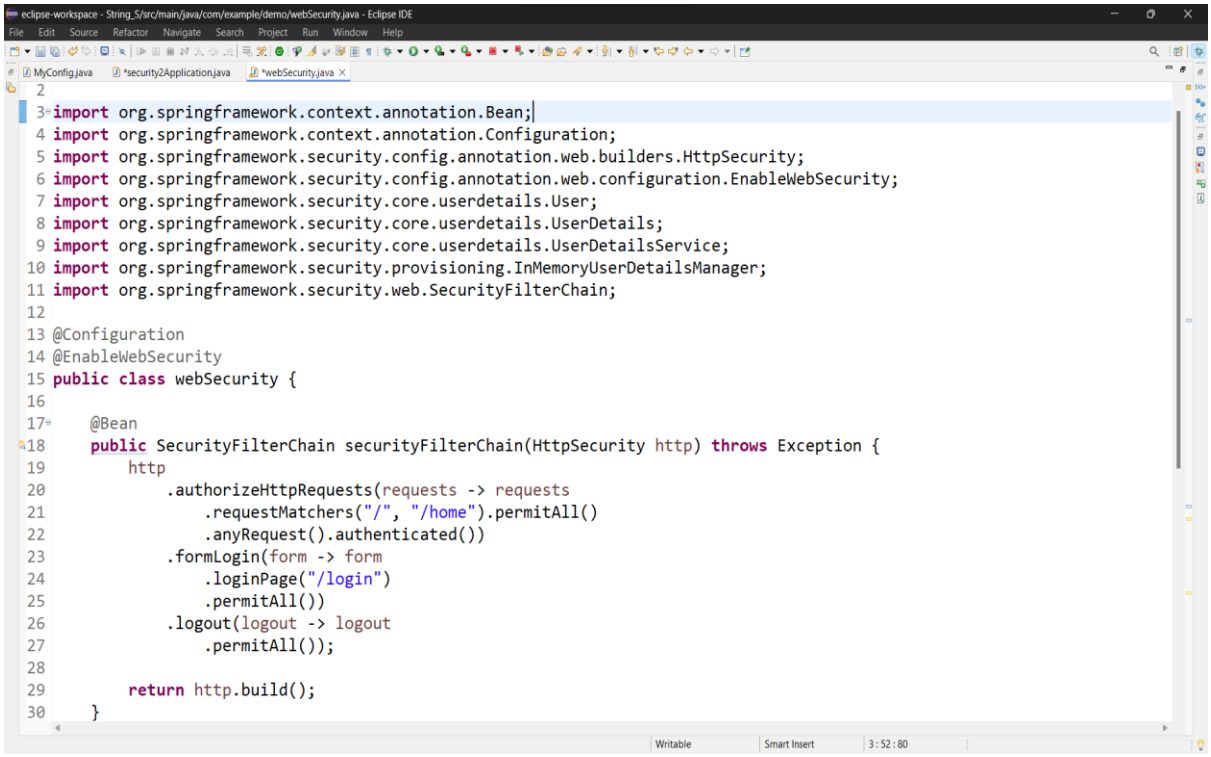
6.login.html

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="http://www.thymeleaf.org">
<head>
    <title>Spring Security Example</title>
</head>
```

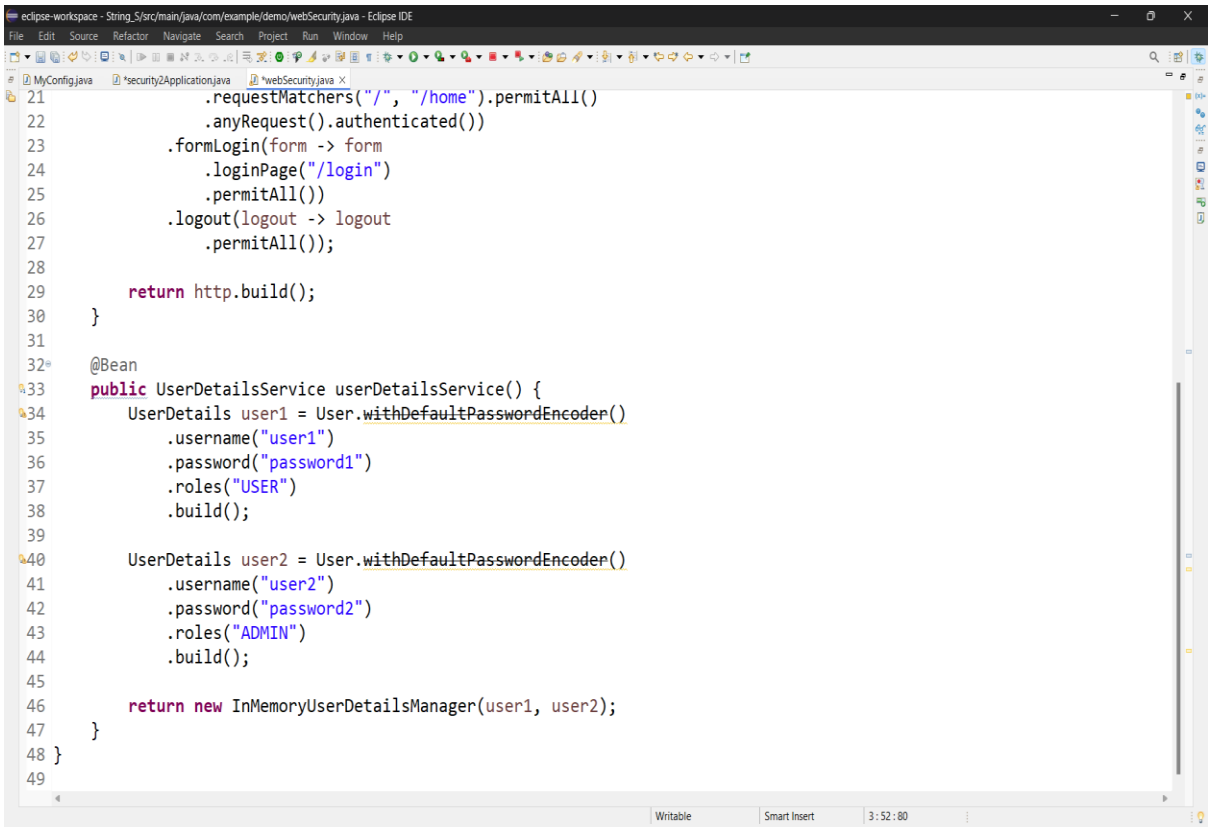
```
<body>
<div th:if="${param.error}">
    Invalid username and password.
</div>
<div th:if="${param.logout}">
    You have been logged out.
</div>
<form th:action="@{/login}" method="post">
    <div>
        <label>User Name:
            <input type="text" name="username" />
        </label>
    </div>
    <div>
        <label>Password:
            <input type="password" name="password" />
        </label>
    </div>
    <div>
        <input type="submit" value="Sign In" />
    </div>
</form>
</body>
</html>
```


eclipse-workspace - String_S/src/main/java/com/example/demo/MyConfig.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
MyConfig.java
1 package com.example.demo;
2
3 import org.springframework.context.annotation.Configuration;
4 import org.springframework.web.servlet.config.annotation.ViewControllerRegistry;
5 import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;
6
7 @Configuration
8 public class MyConfig implements WebMvcConfigurer {
9
10 @Override
11 public void addViewControllers(ViewControllerRegistry registry) {
12 registry.addViewController("/home").setViewName("home");
13 registry.addViewController("/").setViewName("home");
14 registry.addViewController("/hello").setViewName("hello");
15 registry.addViewController("/login").setViewName("login");
16 }
17 }
18
Writable Smart Insert 18 : 1 : 682

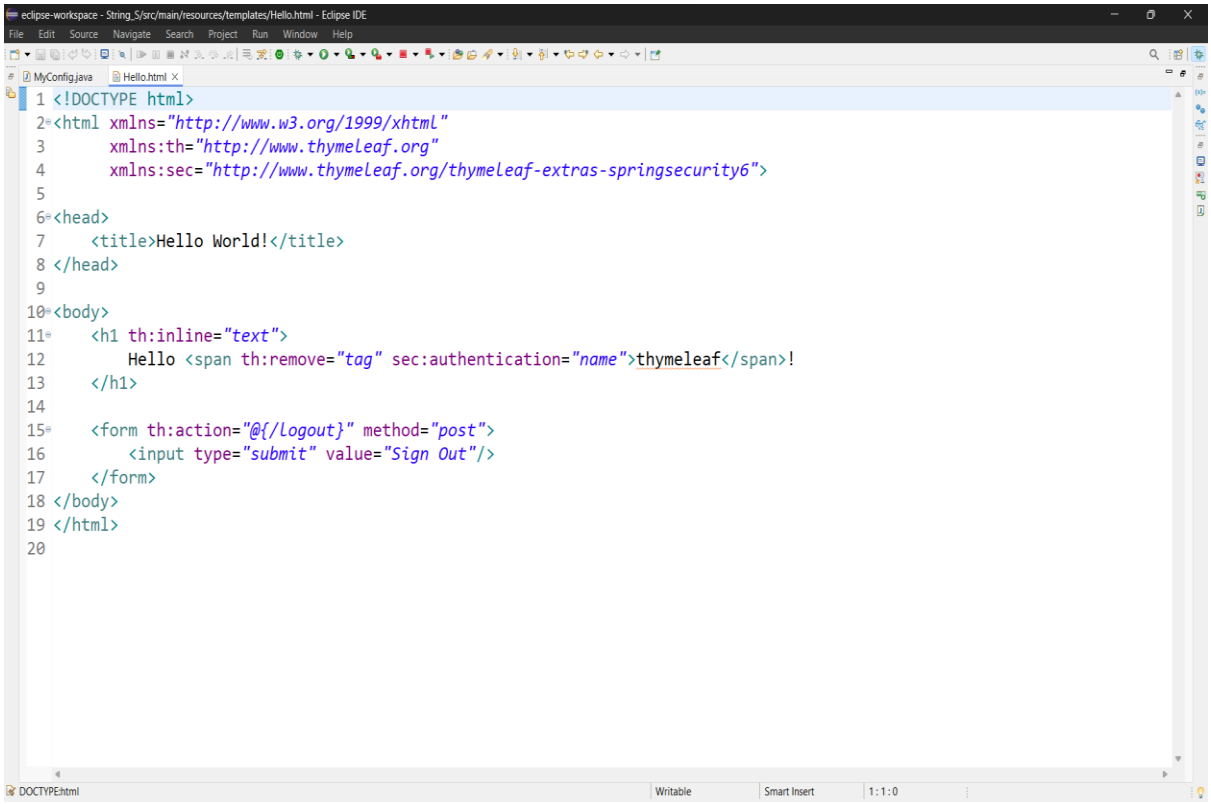

eclipse-workspace - String_S/src/main/java/com/example/demo/security2Application.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
MyConfig.java *security2Application.java *webSecurity.java
1 package com.example.demo;
2 import org.springframework.boot.SpringApplication;
3 import org.springframework.boot.autoconfigure.SpringBootApplication;
4
5 @SpringBootApplication
6 public class security2Application
7 {
8 public static void main(String[] args)
9 {
10 SpringApplication.run(security2Application.class, args);
11 }
12 }
Writable Smart Insert 2 : 51 : 77

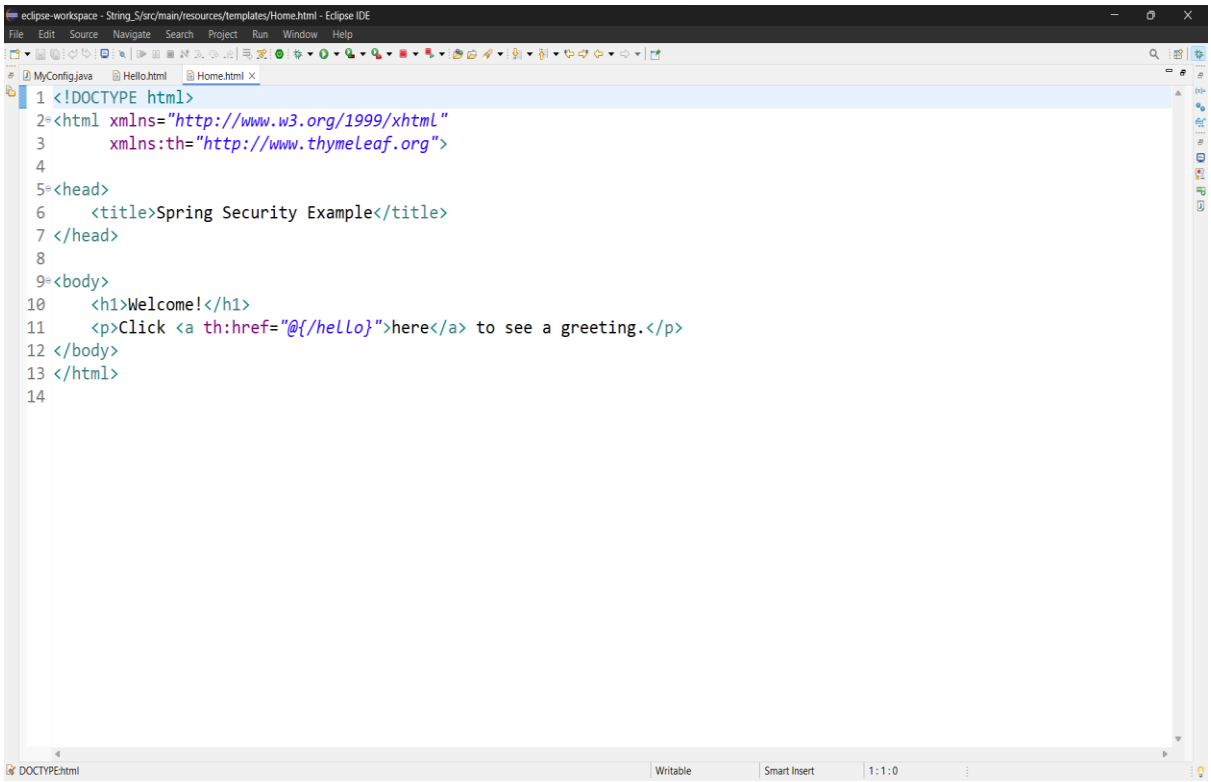


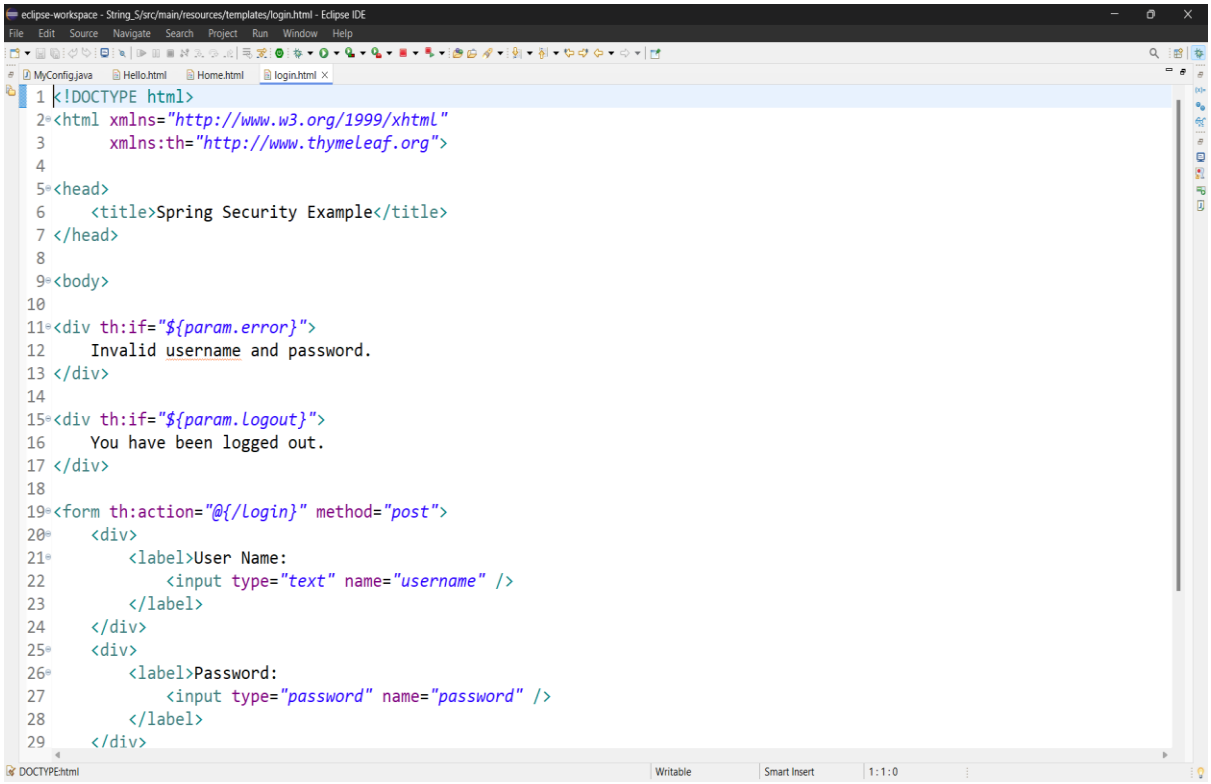
```java
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.core.userdetails.User;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.provisioning.InMemoryUserDetailsManager;
import org.springframework.security.web.SecurityFilterChain;

@Configuration
@EnableWebSecurity
public class webSecurity {

    @Bean
    public SecurityFilterChain securityFilterChain(HttpSecurity http) throws Exception {
        http
            .authorizeHttpRequests(requests -> requests
                .requestMatchers("/", "/home").permitAll()
                .anyRequest().authenticated())
            .formLogin(form -> form
                .loginPage("/login")
                .permitAll())
            .logout(logout -> logout
                .permitAll());

        return http.build();
    }
```



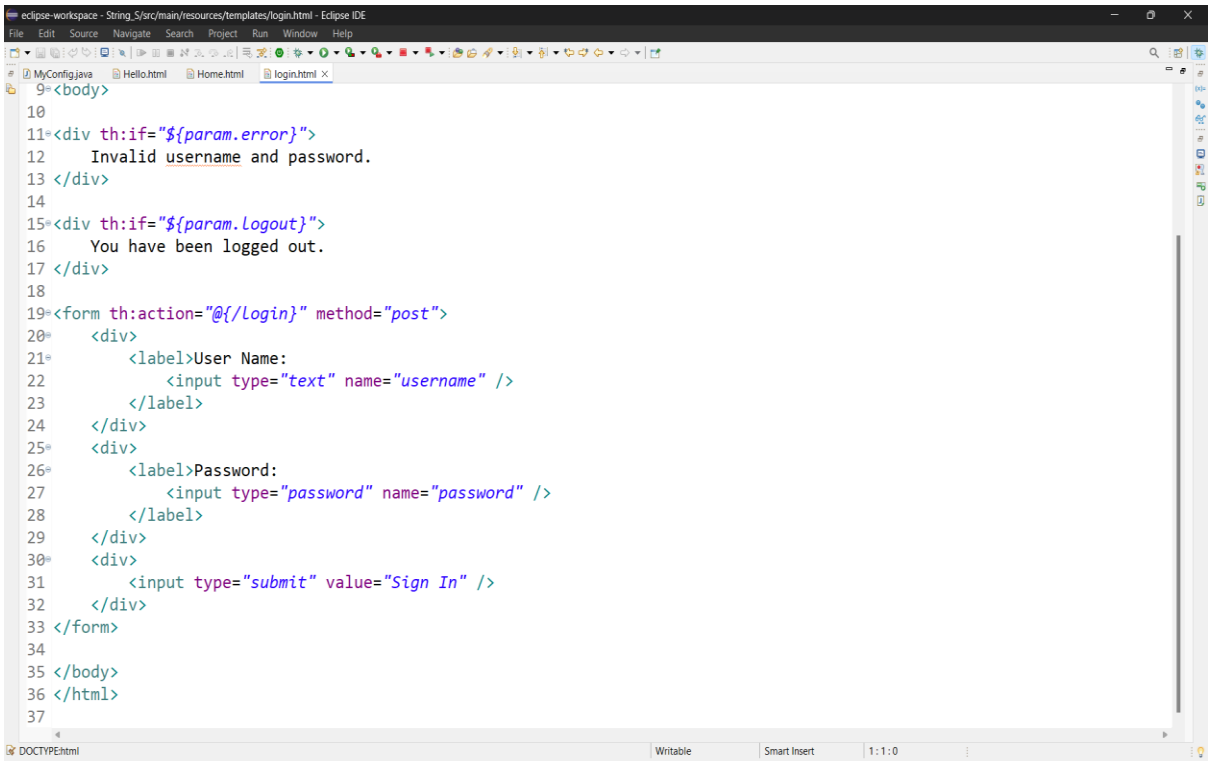
```java
                .requestMatchers("/", "/home").permitAll()
                .anyRequest().authenticated())
            .formLogin(form -> form
                .loginPage("/login")
                .permitAll())
            .logout(logout -> logout
                .permitAll());

        return http.build();
    }

    @Bean
    public UserDetailsService userDetailsService() {
        UserDetails user1 = User.withDefaultPasswordEncoder()
            .username("user1")
            .password("password1")
            .roles("USER")
            .build();

        UserDetails user2 = User.withDefaultPasswordEncoder()
            .username("user2")
            .password("password2")
            .roles("ADMIN")
            .build();

        return new InMemoryUserDetailsManager(user1, user2);
    }
}
```


eclipse-workspace - String_S/src/main/resources/templates/Hello.html - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help
MyConfig.java
Hello.html
1 <!DOCTYPE html>
2 <html xmlns="http://www.w3.org/1999/xhtml"
3 xmlns:th="http://www.thymeleaf.org"
4 xmlns:sec="http://www.thymeleaf.org/thymeleaf-extras-springsecurity6">
5
6 <head>
7 <title>Hello World!</title>
8 </head>
9
10 <body>
11 <h1 th:inline="text">
12 Hello thymeleaf!
13 </h1>
14
15 <form th:action="@{/logout}" method="post">
16 <input type="submit" value="Sign Out"/>
17 </form>
18 </body>
19 </html>
20
DOCTYPE:html
Writable
Smart Insert
1 : 1 : 0


eclipse-workspace - String_S/src/main/resources/templates/Home.html - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help
MyConfig.java
Hello.html
Home.html
1 <!DOCTYPE html>
2 <html xmlns="http://www.w3.org/1999/xhtml"
3 xmlns:th="http://www.thymeleaf.org">
4
5 <head>
6 <title>Spring Security Example</title>
7 </head>
8
9 <body>
10 <h1>Welcome!</h1>
11 Click <a th:href="@{/hello}">here</a> to see a greeting.
12 </body>
13 </html>
14
DOCTYPE:html
Writable
Smart Insert
1 : 1 : 0

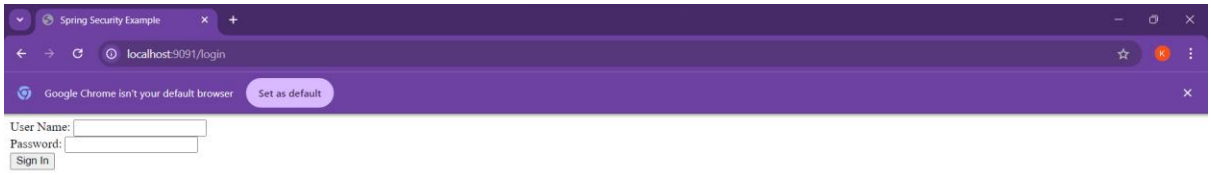


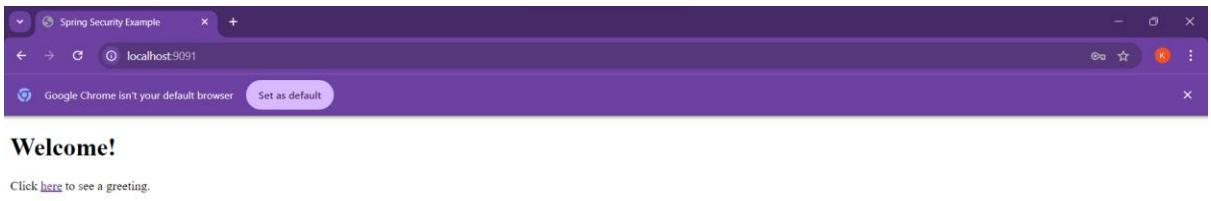
```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="http://www.thymeleaf.org">

<head>
    <title>Spring Security Example</title>
</head>

<body>

<div th:if="${param.error}">
    Invalid username and password.
</div>

<div th:if="${param.logout}">
    You have been logged out.
</div>

<form th:action="@{/login}" method="post">
    <div>
        <label>User Name:
            <input type="text" name="username" />
        </label>
    </div>
    <div>
        <label>Password:
            <input type="password" name="password" />
        </label>
    </div>
```



```
<body>

<div th:if="${param.error}">
    Invalid username and password.
</div>

<div th:if="${param.logout}">
    You have been logged out.
</div>

<form th:action="@{/login}" method="post">
    <div>
        <label>User Name:
            <input type="text" name="username" />
        </label>
    </div>
    <div>
        <label>Password:
            <input type="password" name="password" />
        </label>
    </div>
    <div>
        <input type="submit" value="Sign In" />
    </div>
</form>

</body>
</html>
```

OUTPUT:-


Spring Security Example
localhost:9091/login
Google Chrome isn't your default browser
Set as default
User Name:
Password:
Sign In


Spring Security Example
localhost:9091
Google Chrome isn't your default browser
Set as default
Welcome!
Click here to see a greeting.