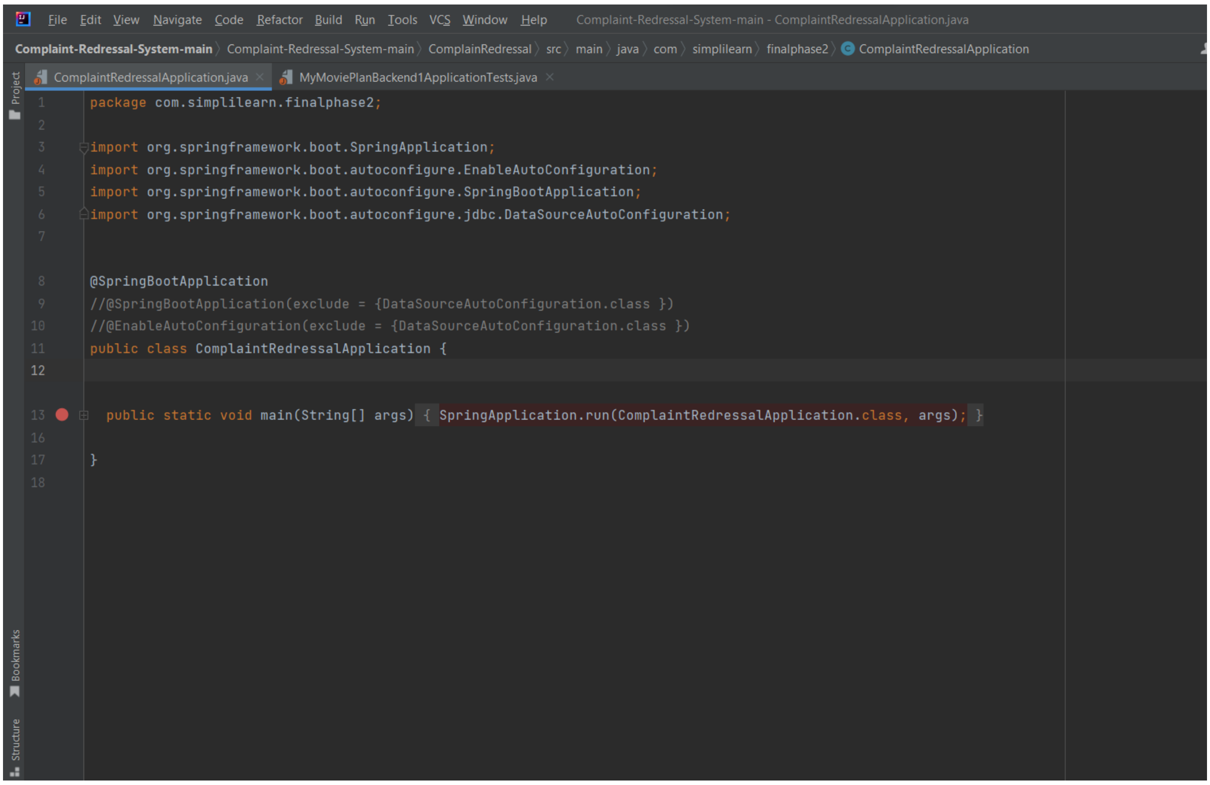
Source code for Complaint-Redressal-System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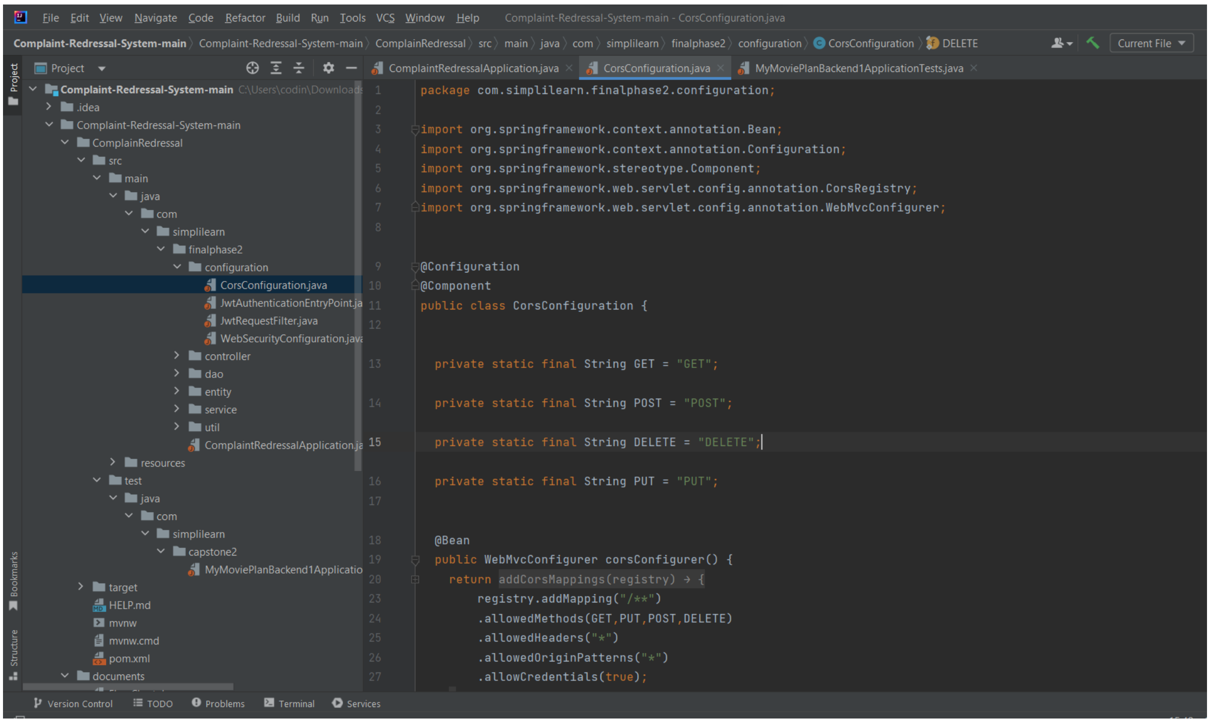
```java
package com.simplilearn.finalphase2;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.EnableAutoConfiguration;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.boot.autoconfigure.jdbc.DataSourceAutoConfiguration;


@SpringBootApplication
//@SpringBootApplication(exclude = {DataSourceAutoConfiguration.class })
//@EnableAutoConfiguration(exclude = {DataSourceAutoConfiguration.class })
public class ComplaintRedressalApplication {


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

}

```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```java
package com.simplilearn.finalphase2.configuration;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.stereotype.Component;
import org.springframework.web.servlet.config.annotation.CorsRegistry;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;


@Configuration
@Component
public class CorsConfiguration {


  private static final String GET = "GET";

  private static final String POST = "POST";

  private static final String DELETE = "DELETE";

  private static final String PUT = "PUT";


  @Bean
  public WebMvcConfigurer corsConfigurer() {
    return addCorsMappings(registry) → {
        registry.addMapping("/**")
        .allowedMethods(GET,PUT,POST,DELETE)
        .allowedHeaders("*")
        .allowedOriginPatterns("*")
        .allowCredentials(true);
```

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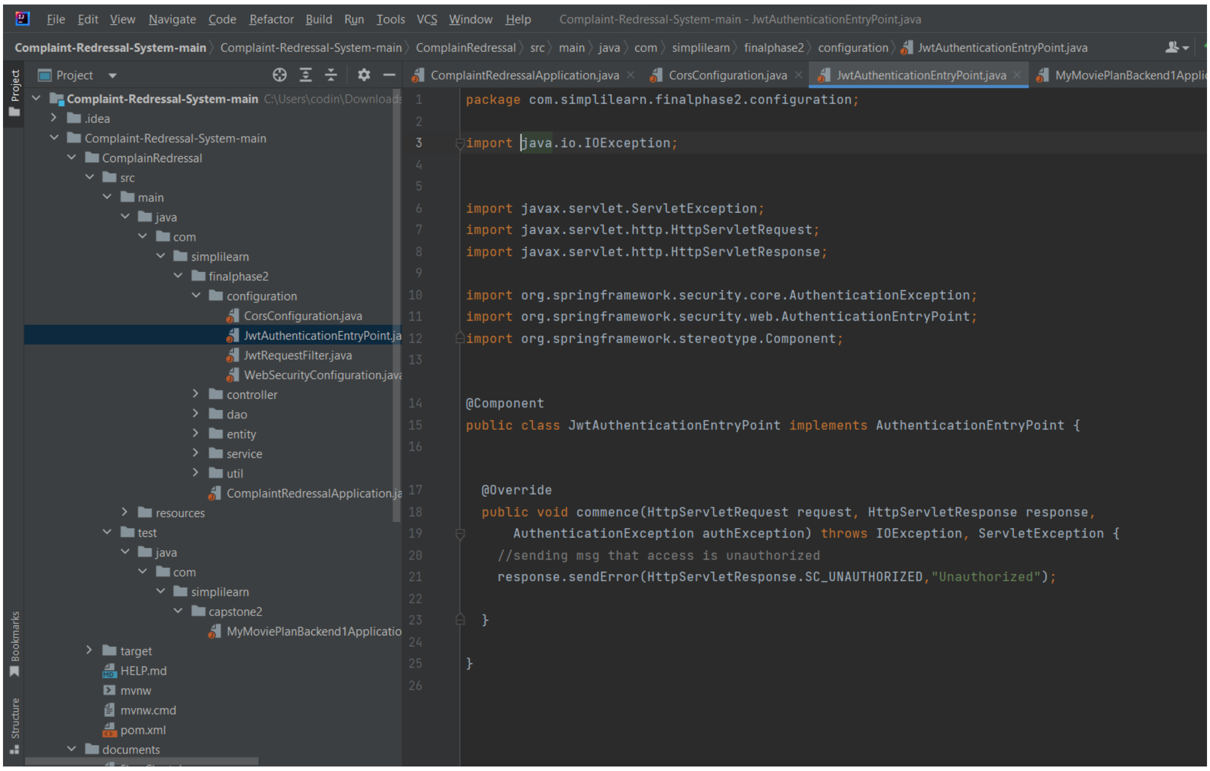
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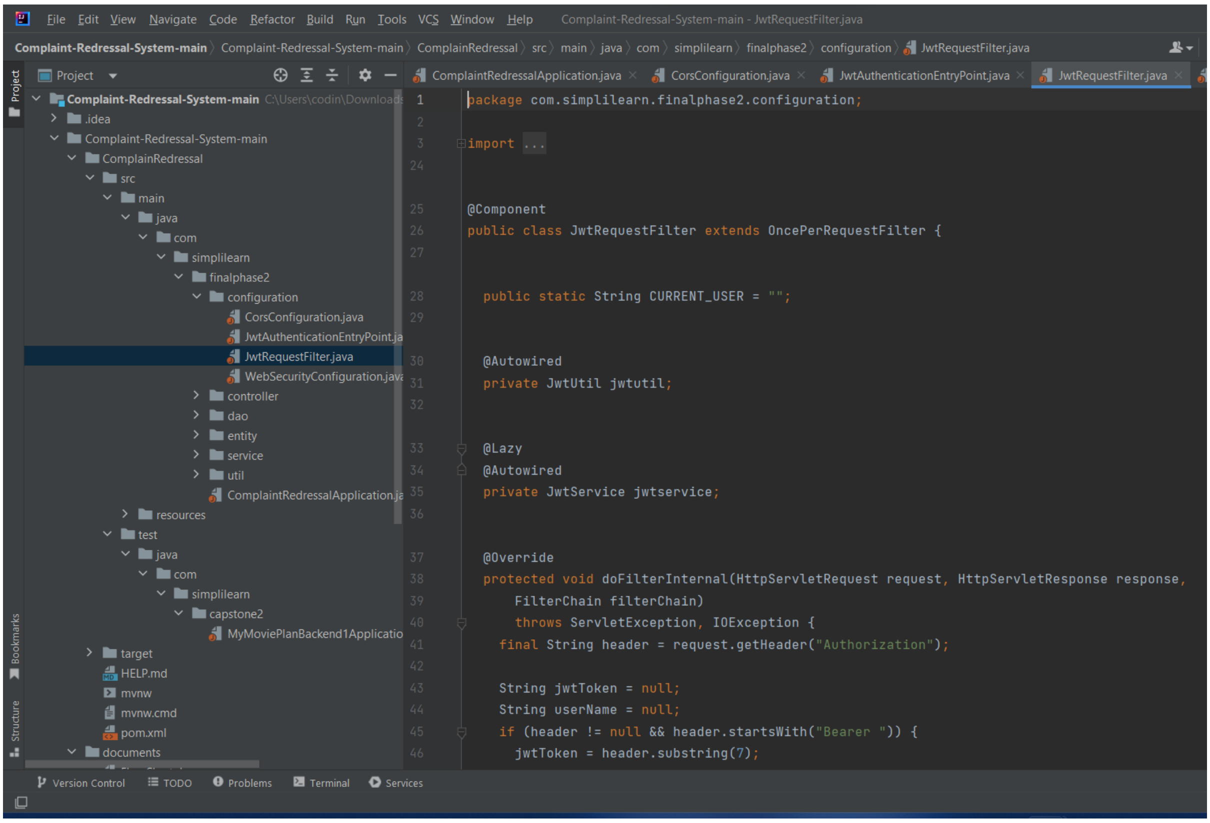
```java
package com.simplilearn.finalphase2.configuration;

import java.io.IOException;


import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.springframework.security.core.AuthenticationException;
import org.springframework.security.web.AuthenticationEntryPoint;
import org.springframework.stereotype.Component;


@Component
public class JwtAuthenticationEntryPoint implements AuthenticationEntryPoint {


  @Override
  public void commence(HttpServletRequest request, HttpServletResponse response,
      AuthenticationException authException) throws IOException, ServletException {
    //sending msg that access is unauthorized
    response.sendError(HttpServletResponse.SC_UNAUTHORIZED,"Unauthorized");

  }

}
```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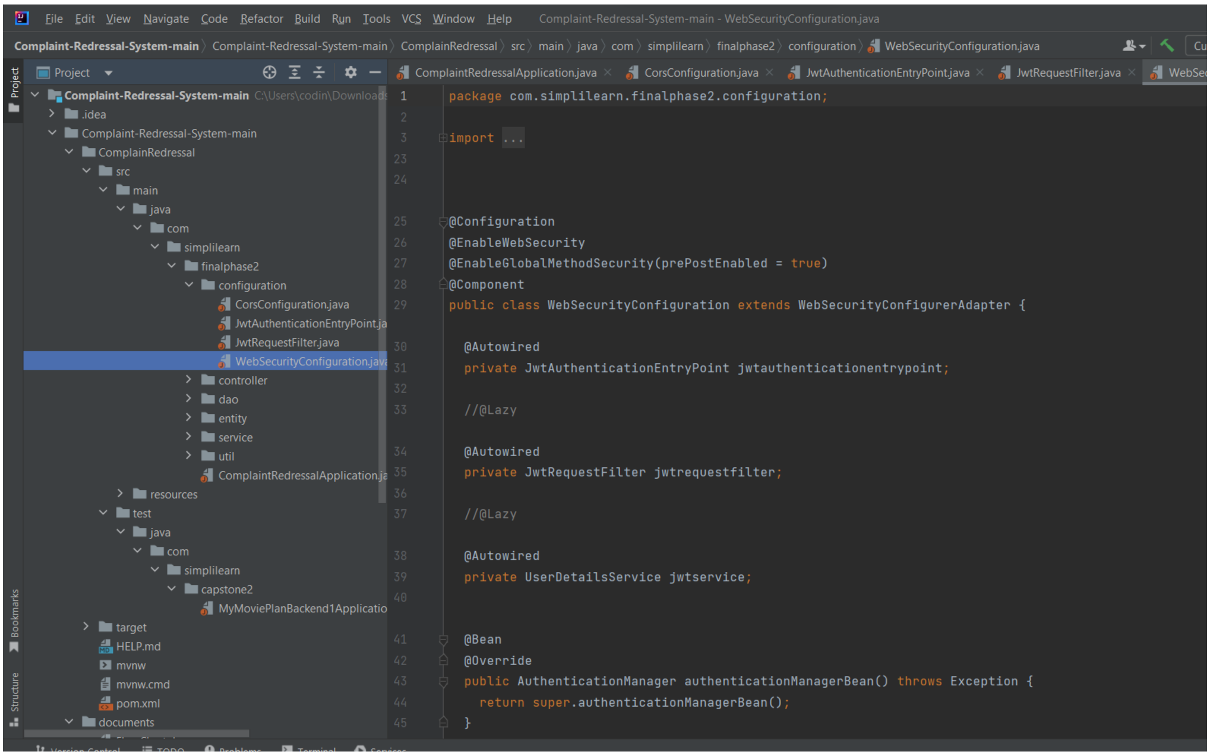
```java
package com.simplilearn.finalphase2.configuration;

import ...


@Component
public class JwtRequestFilter extends OncePerRequestFilter {


  public static String CURRENT_USER = "";


  @Autowired
  private JwtUtil jwtutil;


  @Lazy
  @Autowired
  private JwtService jwtservice;


  @Override
  protected void doFilterInternal(HttpServletRequest request, HttpServletResponse response,
      FilterChain filterChain)
      throws ServletException, IOException {
    final String header = request.getHeader("Authorization");

    String jwtToken = null;
    String userName = null;
    if (header != null && header.startsWith("Bearer ")) {
      jwtToken = header.substring(7);
```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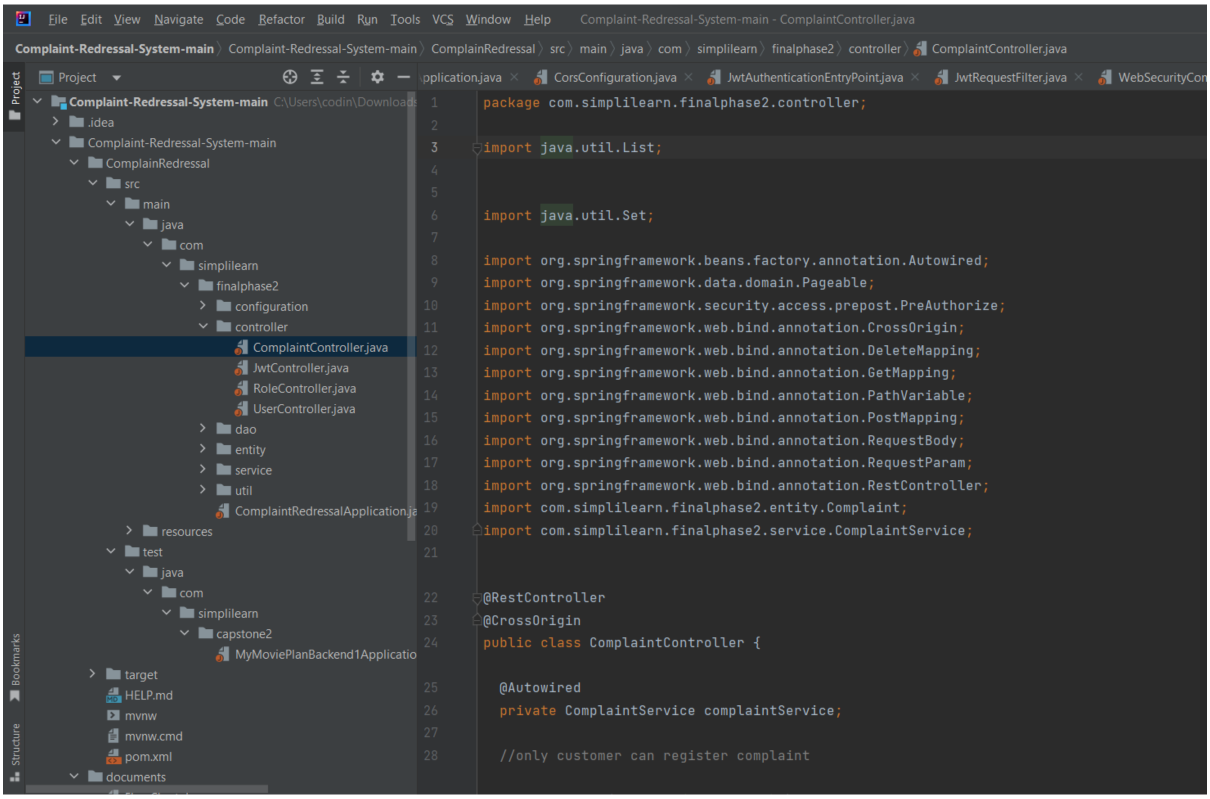
```
package com.simplilearn.finalphase2.configuration;

import ...


@Configuration
@EnableWebSecurity
@EnableGlobalMethodSecurity(prePostEnabled = true)
@Component
public class WebSecurityConfiguration extends WebSecurityConfigurerAdapter {

  @Autowired
  private JwtAuthenticationEntryPoint jwtauthenticationentrypoint;

  //@Lazy

  @Autowired
  private JwtRequestFilter jwtrequestfilter;

  //@Lazy

  @Autowired
  private UserDetailsService jwtservice;


  @Bean
  @Override
  public AuthenticationManager authenticationManagerBean() throws Exception {
    return super.authenticationManagerBean();
  }
```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```
package com.simplilearn.finalphase2.controller;

import java.util.List;


import java.util.Set;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.data.domain.Pageable;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;
import com.simplilearn.finalphase2.entity.Complaint;
import com.simplilearn.finalphase2.service.ComplaintService;


@RestController
@CrossOrigin
public class ComplaintController {

  @Autowired
  private ComplaintService complaintService;

  //only customer can register complaint
```

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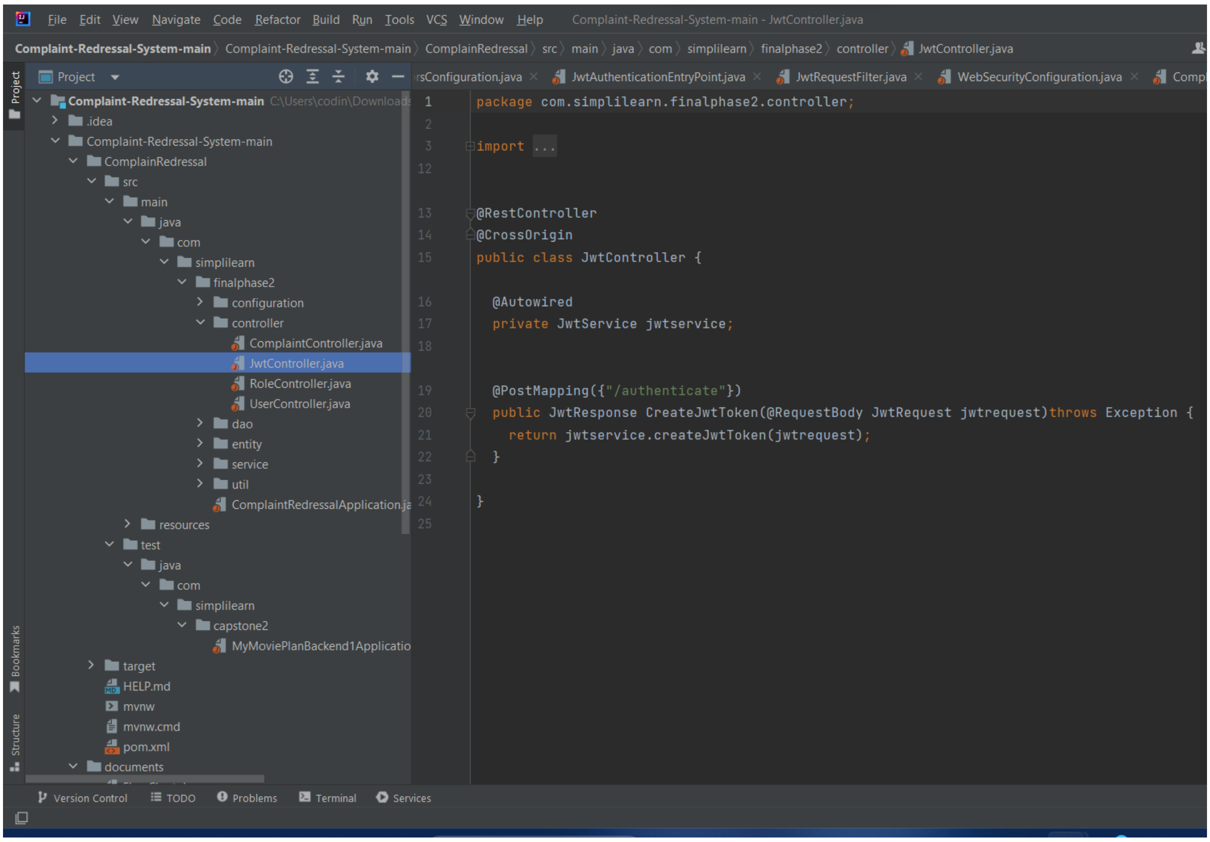
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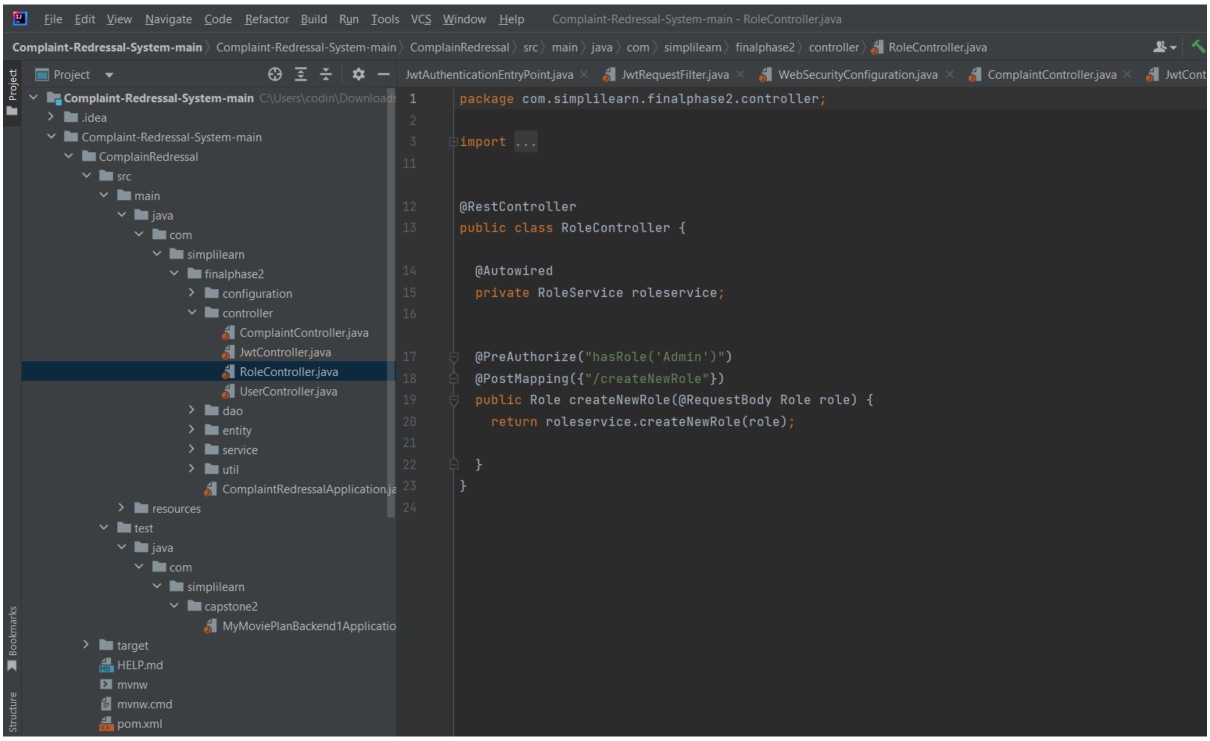
```
package com.simplilearn.finalphase2.controller;

import ...

@RestController
@CrossOrigin
public class JwtController {

    @Autowired
    private JwtService jwtservice;

    @PostMapping({"/authenticate"})
    public JwtResponse CreateJwtToken(@RequestBody JwtRequest jwtrequest)throws Exception {
        return jwtservice.createJwtToken(jwtrequest);
    }

}
```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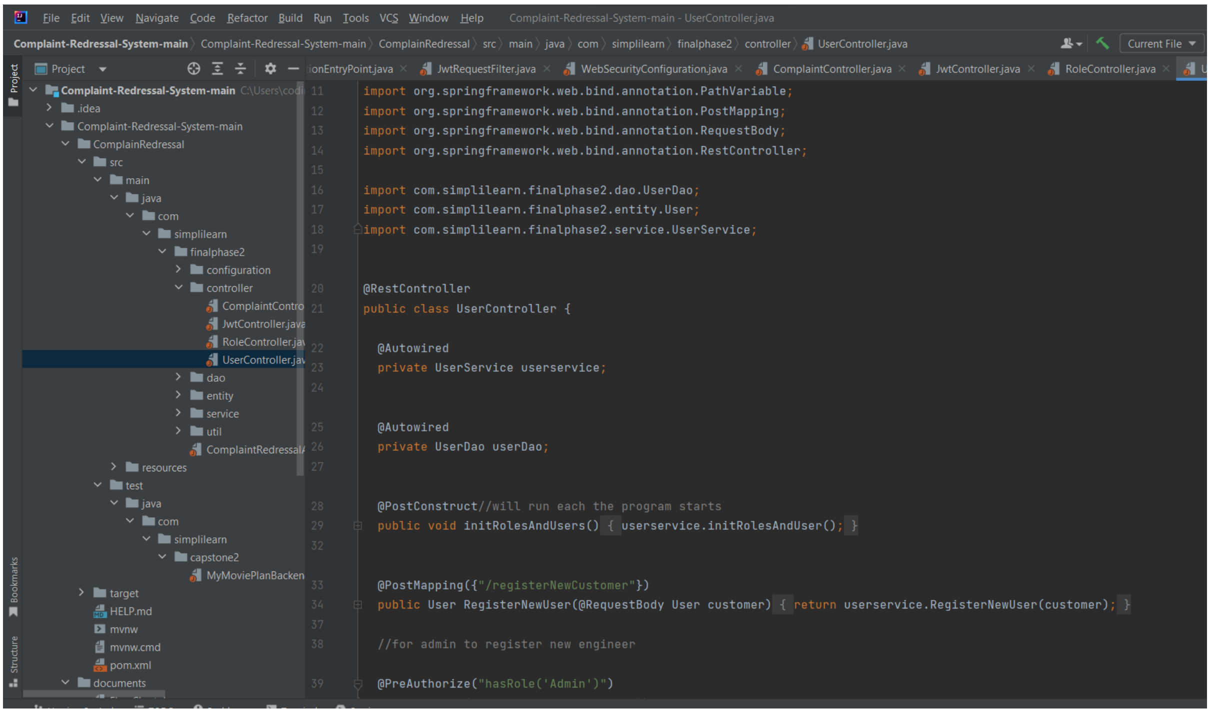
```
package com.simplilearn.finalphase2.controller;

import ...

@RestController
public class RoleController {
    @Autowired
    private RoleService roleservice;

    @PreAuthorize("hasRole('Admin')")
    @PostMapping({"/createNewRole"})
    public Role createNewRole(@RequestBody Role role) {
        return roleservice.createNewRole(role);

    }
}
```



```java
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RestController;

import com.simplilearn.finalphase2.dao.UserDao;
import com.simplilearn.finalphase2.entity.User;
import com.simplilearn.finalphase2.service.UserService;


@RestController
public class UserController {

    @Autowired
    private UserService userservice;


    @Autowired
    private UserDao userDao;


    @PostConstruct//will run each the program starts
    public void initRolesAndUsers() { userservice.initRolesAndUser(); }


    @PostMapping({"/registerNewCustomer"})
    public User RegisterNewUser(@RequestBody User customer) { return userservice.RegisterNewUser(customer); }

    //for admin to register new engineer

    @PreAuthorize("hasRole('Admin')")
```

Github link: https://github.com/karthikeyanvk18/Complaint-Redressal-System-main

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