

View Resolver in Spring MCV

View Resolver in Spring MVC

- Any MVC framework needs to render data in browsers
- Spring provides flexibility with view technologies
- Works with two interfaces:
 - View
 - ViewResolver

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1.25x

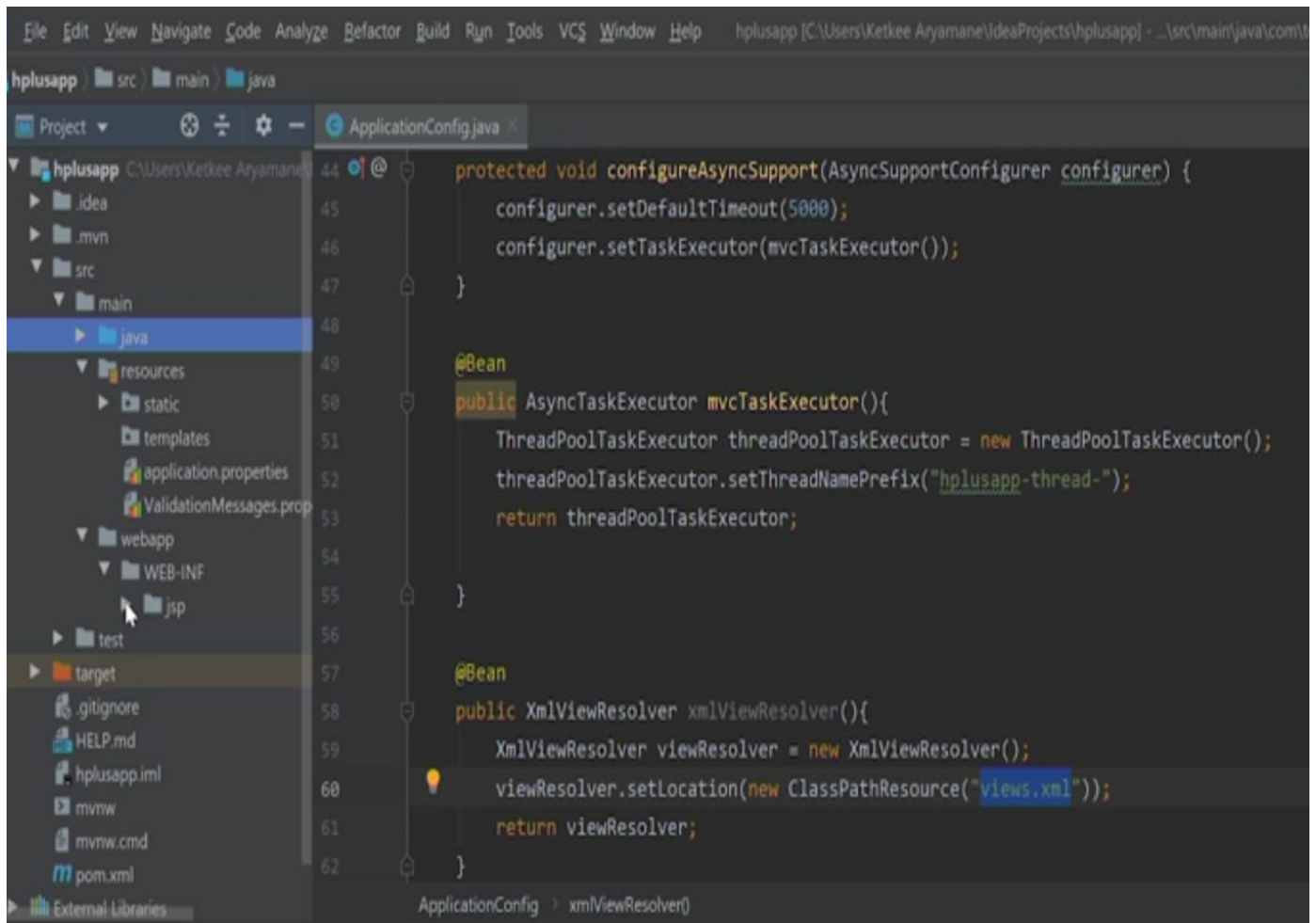
Types of View Resolvers

- InternalResourceViewResolver
- ResourceBundleViewResolver
- XmlViewResolver
- VelocityViewResolver/FreeMarkerViewResolver

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1.25x

XmlViewResolver Bean in ApplicationConfig.java



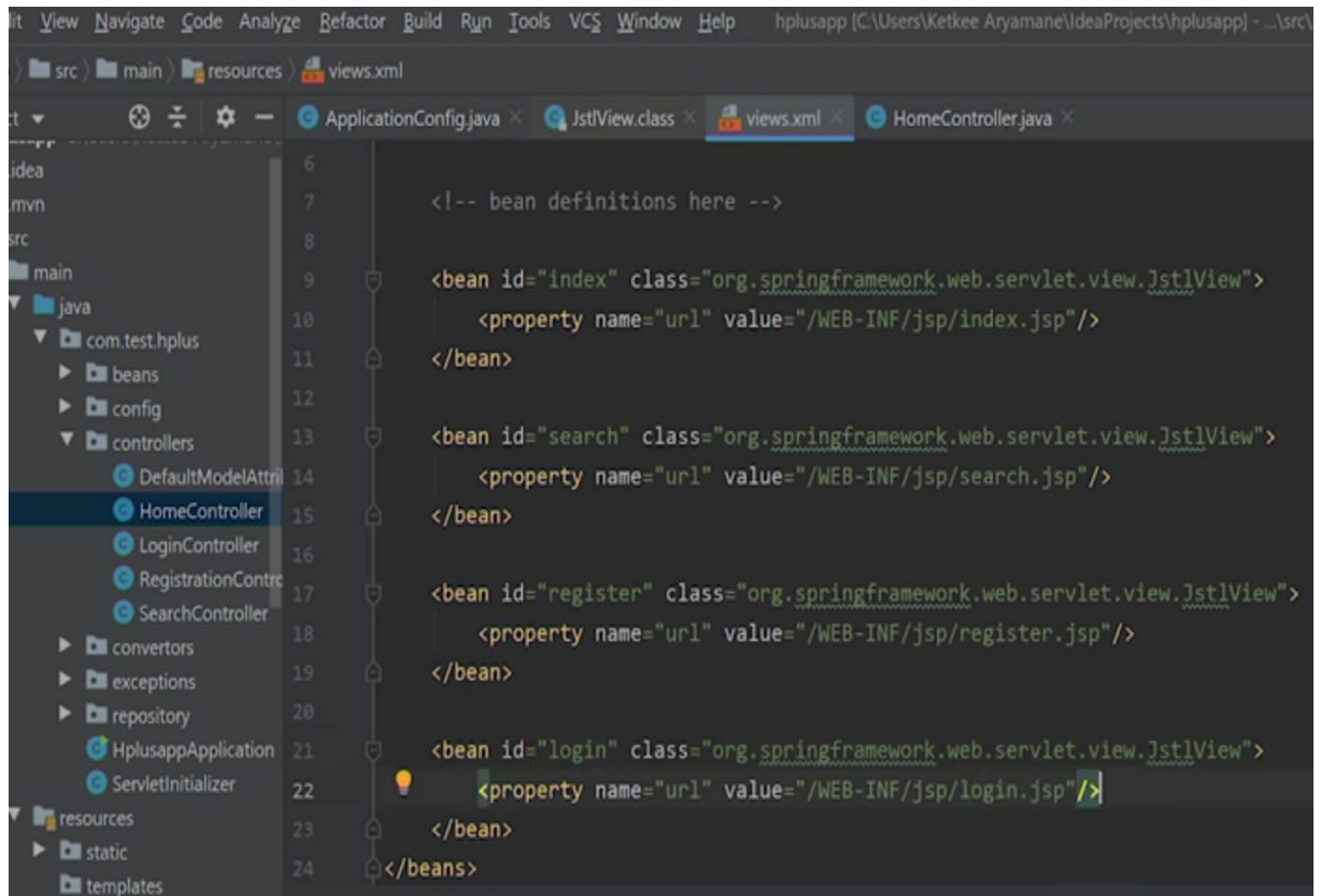
```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help hplusapp [C:\Users\Ketkee Aryamane\IdeaProjects\hplusapp] - ...src\main\java\com\l...

hplusapp | src | main | java
Project | ApplicationConfig.java x
hplusapp C:\Users\Ketkee Aryamane\IdeaProjects\hplusapp
  .idea
  .mvn
  src
    main
      java
      resources
        static
        templates
        application.properties
        ValidationMessages.properties
      webapp
        WEB-INF
          jsp
      test
  target
  .gitignore
  HELP.md
  hplusapp.iml
  mvnw
  mvnw.cmd
  pom.xml
  External Libraries

44 @
45
46
47 }
48
49 @Bean
50 public AsyncTaskExecutor mvcTaskExecutor(){
51     ThreadPoolTaskExecutor threadPoolTaskExecutor = new ThreadPoolTaskExecutor();
52     threadPoolTaskExecutor.setThreadNamePrefix("hplusapp-thread-");
53     return threadPoolTaskExecutor;
54 }
55
56
57 @Bean
58 public XmlViewResolver xmlViewResolver(){
59     XmlViewResolver viewResolver = new XmlViewResolver();
60     viewResolver.setLocation(new ClassPathResource("views.xml"));
61     return viewResolver;
62 }
```

ApplicationConfig > xmlViewResolver()

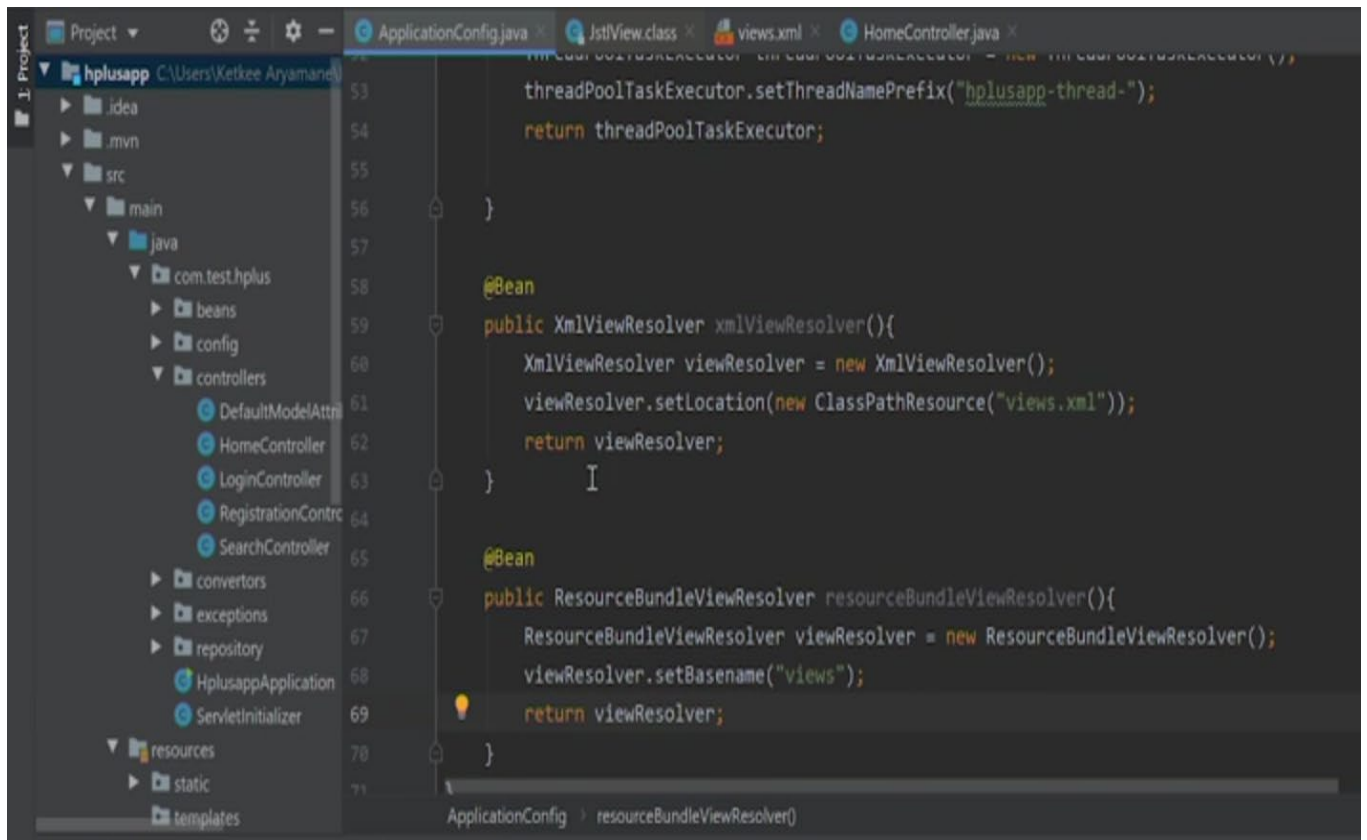
Views.xml in resource folder



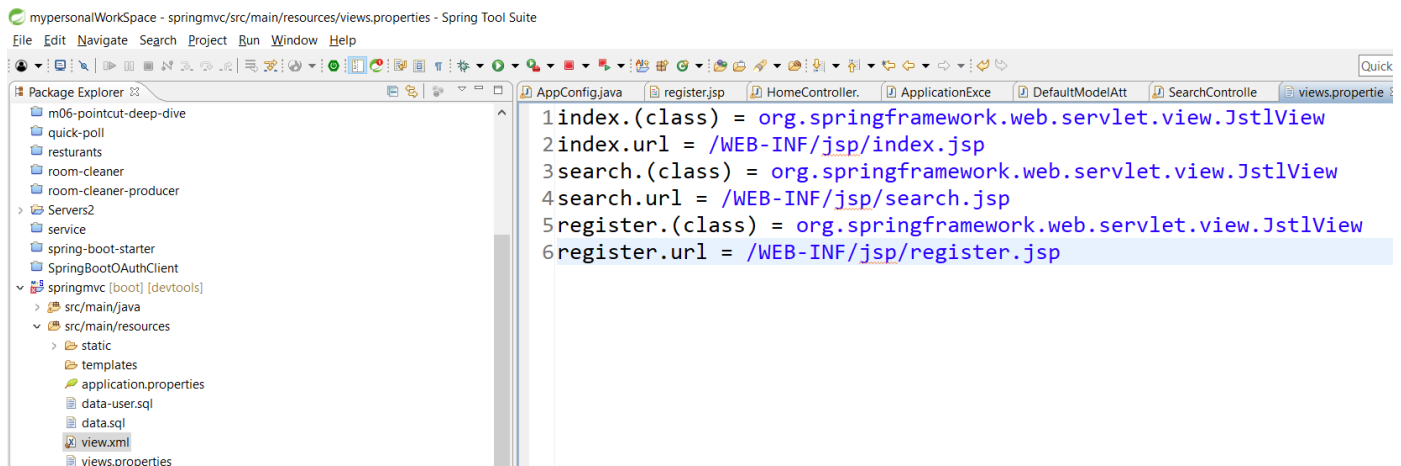
ResourceBundle Resolver Demo

- Configure the ResourceBundleViewResolver in application configuration

ResourceBundle View Resolver in ApplicationConfiguration



Views.properties in resources folder



Chaining of View Resolvers

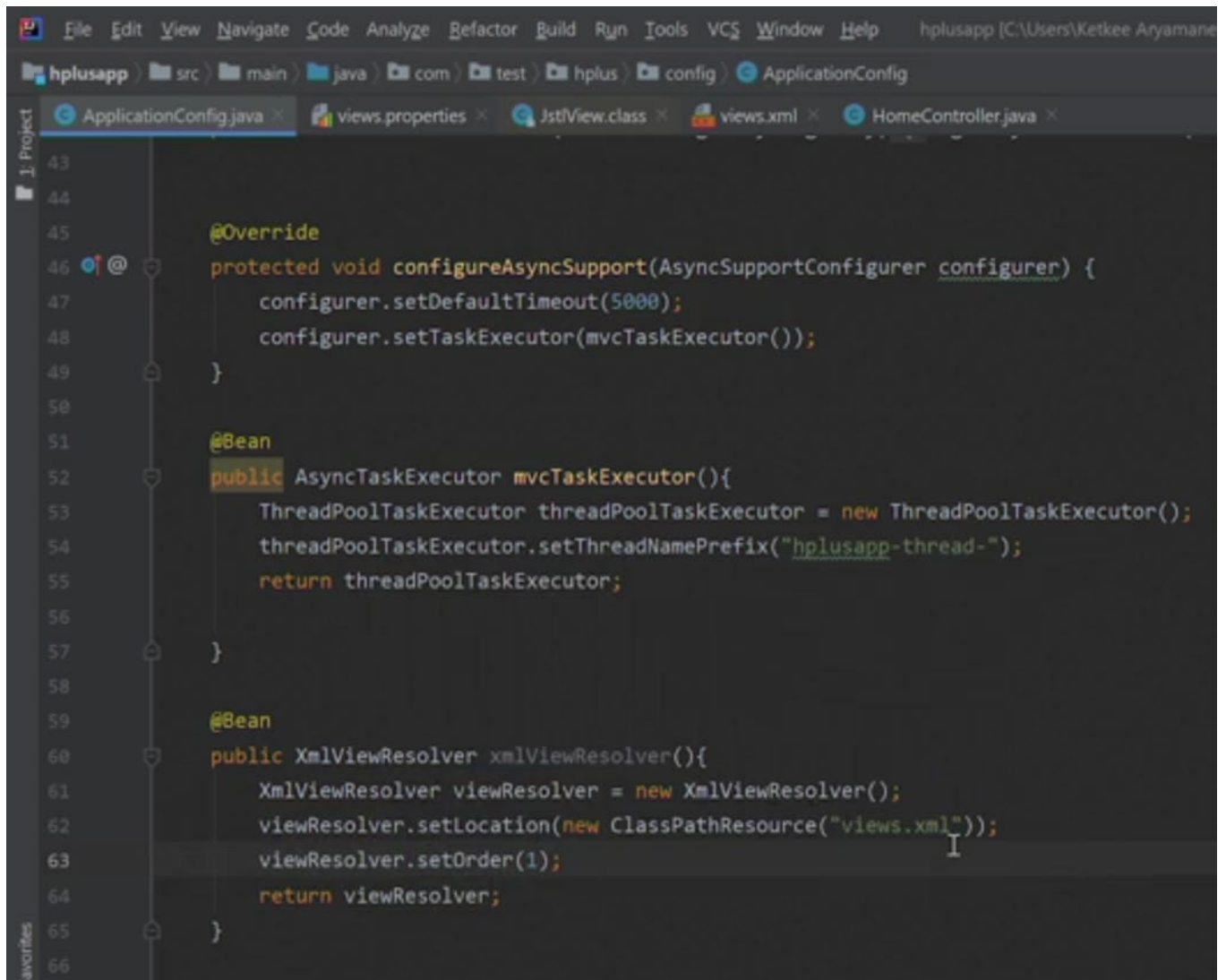
- Application can configure multiple view resolvers
- Set order on each of them using `setOrder` API
- Higher the order value, the later that view resolver is placed in the chain

Order = 1 
XmlViewResolver 

Order = 2 
InternalResourceViewResolver 

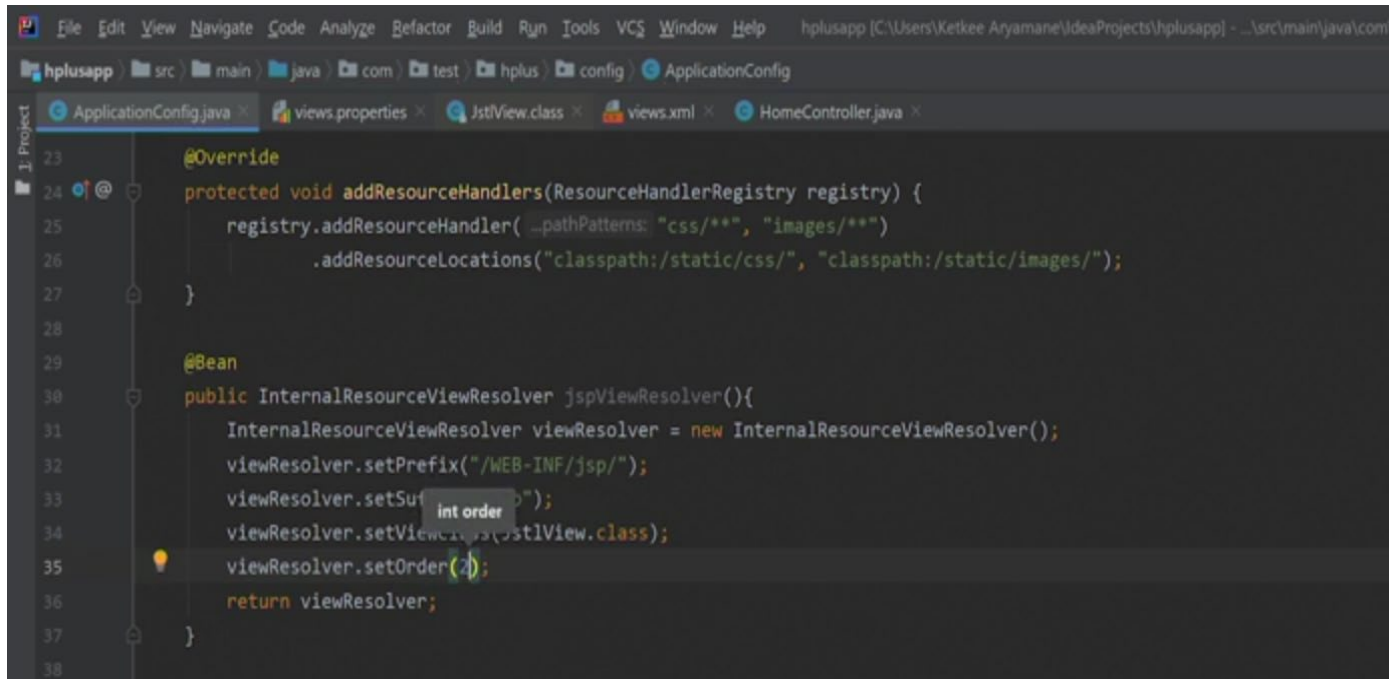
Throw exception

Setting order of XmlViewResolver bean to 1 so that first all the views are get resolved by xml view resolver.



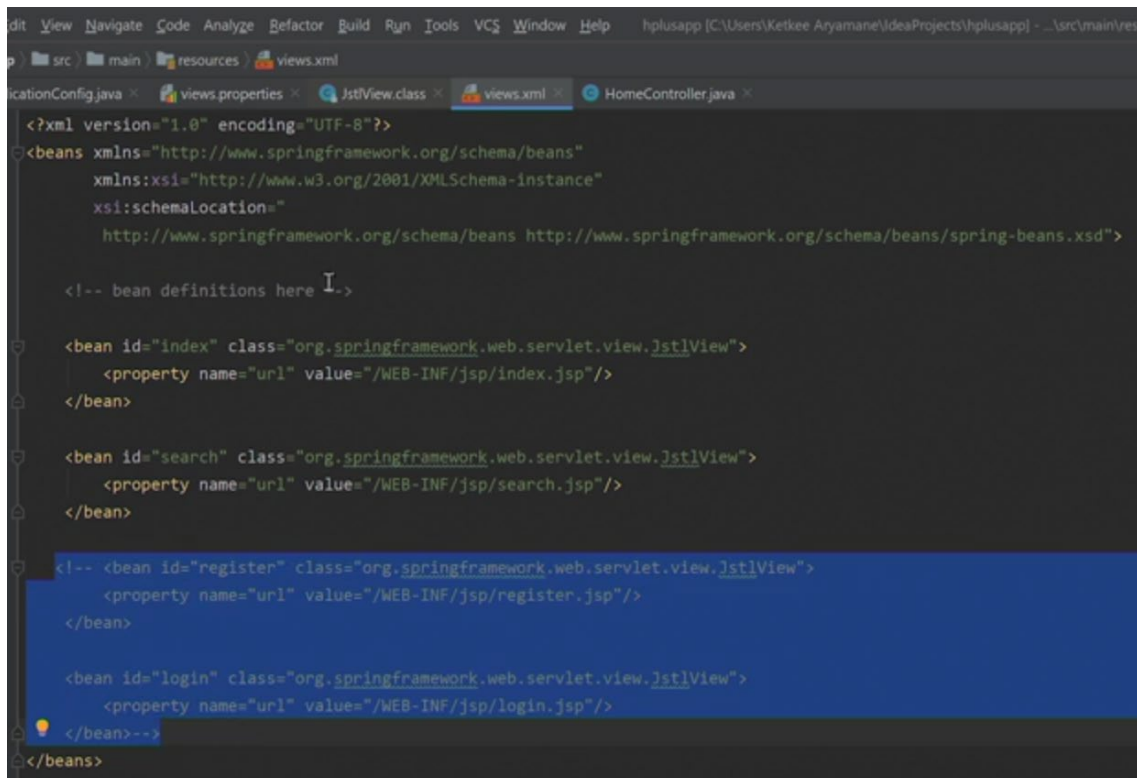
```
43
44
45     @Override
46     protected void configureAsyncSupport(AsyncSupportConfigurer configurer) {
47         configurer.setDefaultTimeout(5000);
48         configurer.setTaskExecutor(mvcTaskExecutor());
49     }
50
51     @Bean
52     public AsyncTaskExecutor mvcTaskExecutor(){
53         ThreadPoolTaskExecutor threadPoolTaskExecutor = new ThreadPoolTaskExecutor();
54         threadPoolTaskExecutor.setThreadNamePrefix("hplusapp-thread-");
55         return threadPoolTaskExecutor;
56     }
57
58
59     @Bean
60     public XmlViewResolver xmlViewResolver(){
61         XmlViewResolver viewResolver = new XmlViewResolver();
62         viewResolver.setLocation(new ClassPathResource("views.xml"));
63         viewResolver.setOrder(1);
64         return viewResolver;
65     }
66
```


Setting Order of InternalViewResolver bean to 2 so that it will resolve the view once view resolver is done by XmlViewResolver and has failed to resolve some of the views that are going to resolve by the InternalViewResolver .



```
23 @Override
24 protected void addResourceHandlers(ResourceHandlerRegistry registry) {
25     registry.addResourceHandler("/css/**", "images/**")
26         .addResourceLocations("classpath:/static/css/", "classpath:/static/images/");
27 }
28
29 @Bean
30 public InternalResourceViewResolver jspViewResolver(){
31     InternalResourceViewResolver viewResolver = new InternalResourceViewResolver();
32     viewResolver.setPrefix("/WEB-INF/jsp/");
33     viewResolver.setSuffix(".jsp");
34     viewResolver.setViewClass(JstlView.class);
35     viewResolver.setOrder(2);
36     return viewResolver;
37 }
38
```

Commenting some of the view from xml so it is not got resolved by XmlViewResolver and InternalViewResolver Comes to play.



```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="
           http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd">

    <!-- bean definitions here -->

    <bean id="index" class="org.springframework.web.servlet.view.JstlView">
        <property name="url" value="/WEB-INF/jsp/index.jsp"/>
    </bean>

    <bean id="search" class="org.springframework.web.servlet.view.JstlView">
        <property name="url" value="/WEB-INF/jsp/search.jsp"/>
    </bean>

    <!-- <bean id="register" class="org.springframework.web.servlet.view.JstlView">
        <property name="url" value="/WEB-INF/jsp/register.jsp"/>
    </bean>

    <bean id="login" class="org.springframework.web.servlet.view.JstlView">
        <property name="url" value="/WEB-INF/jsp/login.jsp"/>
    </bean>
-->
</beans>
```