

Phase 3

Total session 9

Spring framework and Spring boot, Unit testing, Rest full web service and micro service using Spring framework/spring boot

Day 5

Spring boot

Spring boot is bootstrap for spring framework or spring modules

Spring boot is not a module it used to improve existing or new modules

Spring boot = all spring modules – no xml file + few annotation + in build embedded http server ie tomcat or jetty.

Spring boot itself is core java or standalone project which help to create any type of project in development mode. We can create web project or any other projects depending upon the requirements.

(it contains main methods).

Spring boot develop using two build tools.

1. Maven : maven is xml base build tools.
2. Gradle : gradle is xml less build tools.

Pom.xml file is part of maven tool not a part of spring boot.

Spring boot components

1. Spring boot starter : spring boot provided lot of different types of starter which help to develop the different type of application
Like web application , data connectivity, security, orm(jpa) etc.

Spring boot starter provided only one dependencies which contains all required jar to develop that type of application.

Web starter

Testing starter

Jpa starter (ORM)

Jdbc starter

Security stater.

2. Spring boot auto configuration :

Using spring boot auto configuration all configuration which we were doing using xml file ie beans.xml or dispatcher-servlet.xml or any xml. Xml file it taken care the auto configuration.

Spring boot provided **@SpringBootApplication** annotation .

This annotation is equal to **@Configuration** + **@AutoConfiguration** + **@ComponentScan**

Base upon type of starter we added in project it automatically provided the DI for those resources.

Means less configuration.

Spring boot provided pre defined API

SpringApplication class which contains run method to start spring boot application.

If we want view as JSP.

Then we need to add some jsp dependencies.

Project Explorer ×

- SimpleSpringBootProject [Mphesis]
 - src/main/java
 - src/main/resources
 - src/test/java
 - src/test/resources
 - JRE System Library [JavaSE-11]
 - Maven Dependencies
 - src
 - main
 - java
 - resources
 - webapp
 - index.jsp
 - test
 - target
 - pom.xml

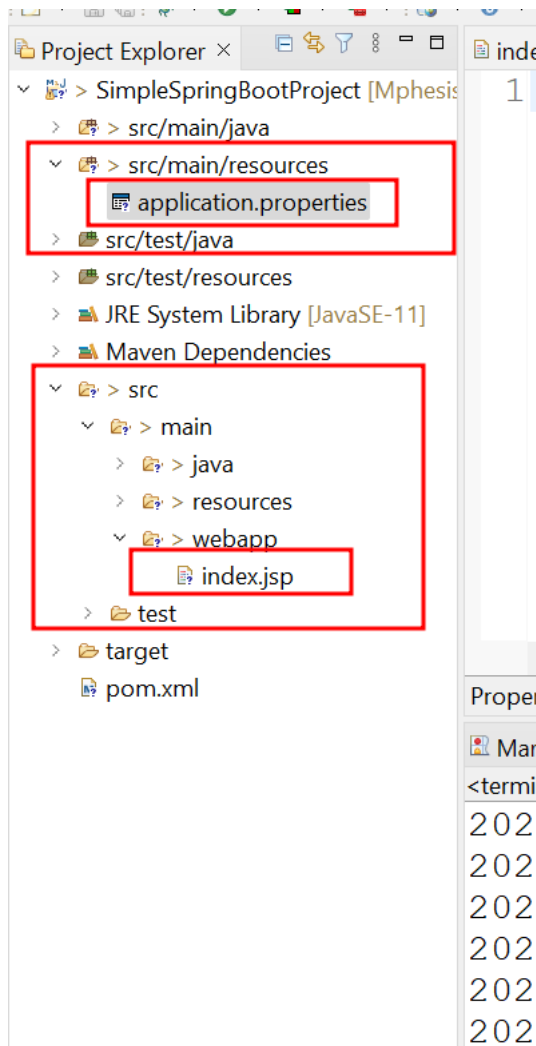
index

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In spring boot we will write all the configuration in application.properties or application.yml

in spring boot or spring mvc all controller method if return string we need to write mapping ie view resolver in application properties or spring configuration file.

```
spring.mvc.view.prefix: ./
spring.mvc.view.suffix: .jsp
```

Spring boot login App

@SpringBootApplication by default scan all those classes with annotation **@controller, @component, @service and @repository** must be in same package or sub package of same package. If they are in other package then we need to use scan attribute part of **@SpringBootApplication** annotation.

By default spring boot open index.jsp as first page with view resolver concept.