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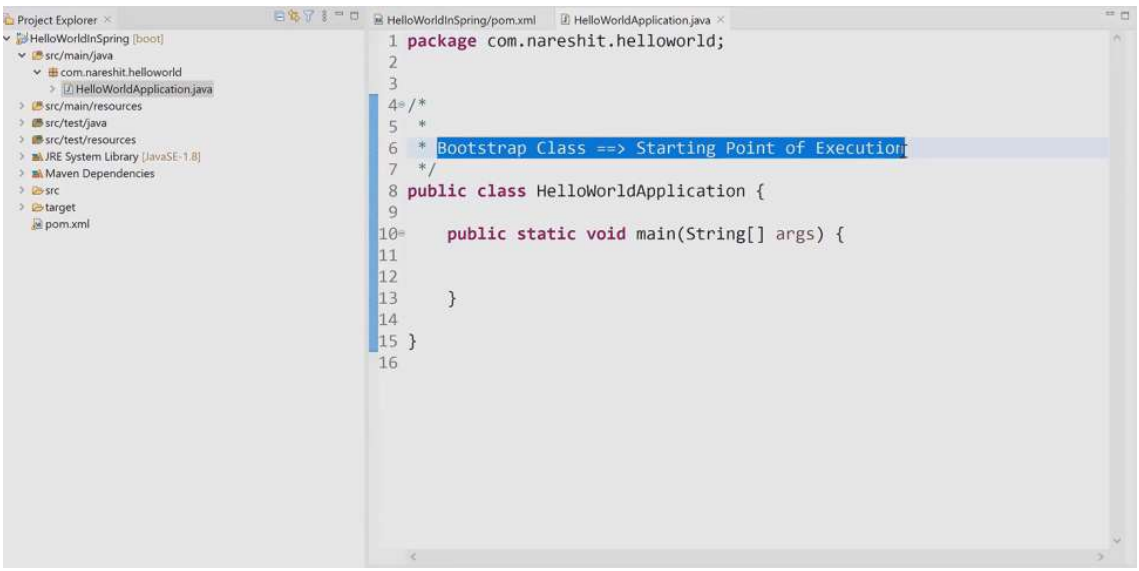
Monday, 23 June 2025 05:13

Bootstarp class



Bootstrap class	starting point of execution

How to know a class is a bootstrapclass or not ?

- if we write a annotation "@SpringBootApplication"
- A Java class which is having @SpringBootApplication is called as Bootstrap class
- Every Springboot project should have only one bootstrap class.
- Bootstarp --> boot --> booting --> starting --> starting point

what is a annotation?

- A predefined keyword with "@" symbol is called as annotation.

Functionality of Bootstarp class

- 1. It will create IoC Container --> Inversion of Control Container.
- 2. It will perform memory management for both the system classes, developer class.
  - management --> creating the object, maintaing the state of the object, destroying the object.
- 3. It will create a web application context

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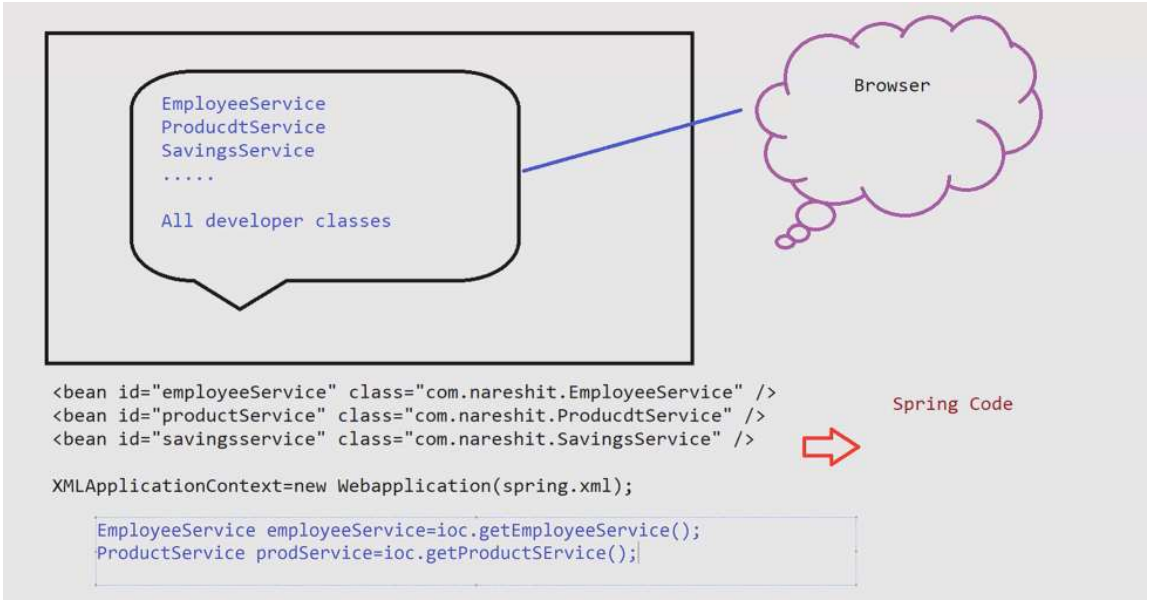
web application context

- web application will interact with all our developer classes,
- moved to temporary memory location in the web application, so that browser loads that classes
- so these classes should be to do that in spring we write the following

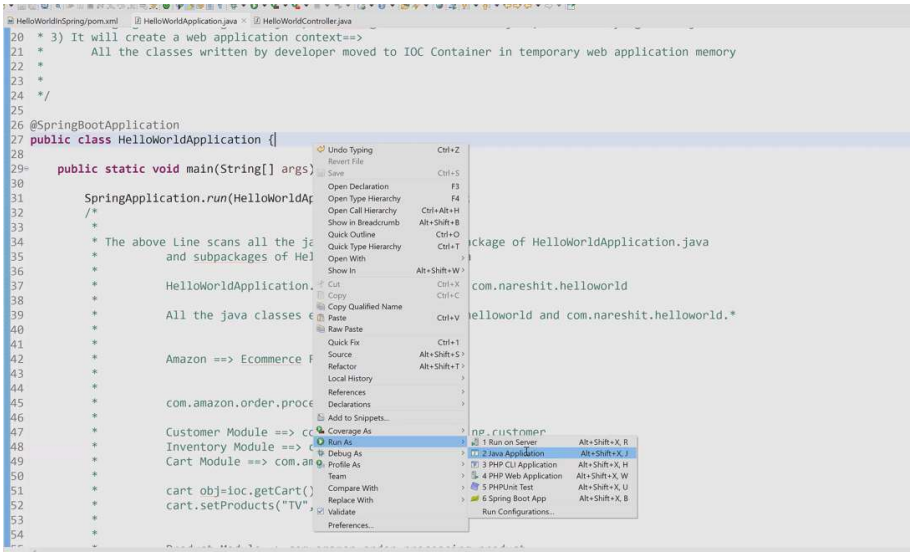


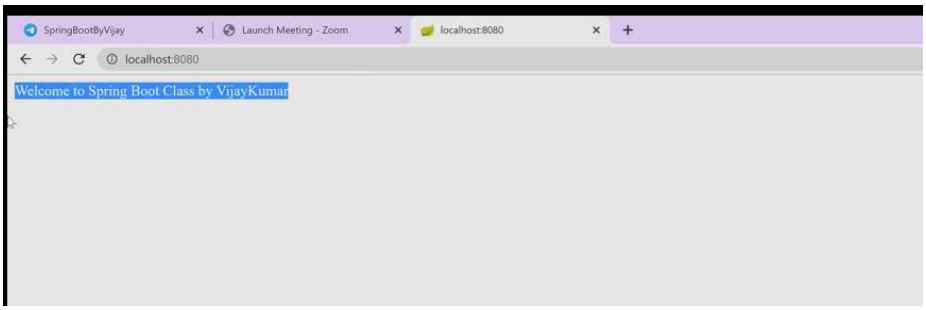
All the classes written by developer moved to IoC Container in temporary web application memory

```
26 @SpringBootApplication
27 public class HelloWorldApplication {
28
29     public static void main(String[] args) {
30
31         SpringApplication.run(HelloWorldApplication.class, args);
32         /*
33          *
34          * The above Line scans all the java classes under the package of HelloWorldApplication.java
35          *          and subpackages of HelloWorldApplication.java
36          *
37          *          HelloWorldApplication.class ==> Available in com.nareshit.helloworld
38          *
39          *          All the java classes exists in com.nareshit.helloworld and com.nareshit.helloworld.*
40          *
41          *
```

- java classes available under the bootstrap package and bootstrap subpackage and move them to the IoC Container
- if a class outside the bootstrap package, that class is not managed by the IoC Container.

```
HelloWorldInSpring/pom.xml   *HelloWorldApplication.java   HelloWorldController.java
 1 package com.nareshit.helloworld;
 2
 3 import org.springframework.web.bind.annotation.RequestMapping;
 4 import org.springframework.web.bind.annotation.RestController;
 5
 6 @RestController
 7 public class HelloWorldController {
 8
 9
10     @RequestMapping(value="/")
11     public String getHelloWorld() {
12         return "Welcome to Spring Boot Class by VijayKumar";
13     }
14
15     //HelloWorldController obj=new HelloWorldController();  ==> @RestController
16     //obj.getHelloWorld(); ==> @RequestMapping(value="/")
17 }
18
```





we didn't creat jar/war file,
we didn't install the tomcat,
we didn't deployed jar files in the tomcat
by default all the work is done by the framework