| Spring Boot |
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| -> Spring Boot is one approach to develop Spring Based applications with less configurations. |
| -> Using Spring Boot we can develop below types of applications |
| 1) Standalone app 2) Web 3) Distributed (webservices) |
| -> We have below advantages with Spring Boot |
| 1) Starter Pom (simplifies maven/gradle build configuration) |
| -> web-starter -> datajpa-starter -> security-starter -> mail-starter |
| 2) Auto Configuration (boot will identify required configs for our app) |
| -> Creating db connection pool -> deploy web app in embedded server -> Start IOC container -> Component Scanning |
| 3) Actuators (To monitor and manage our application) |
| -> how many beans loaded ? -> How many url-patterns mapped -> What configuration properties loaded ? -> What is health of app? -> Heap Dump -> Thread Dump |
| 4) Embedded Servers : It provides server to run our boot application |
| -> Apache Tomcat (default) -> Jetty -> netty |
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| 1) Initializr website (start.spring.io) |
| 2) IDE |

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| Note: IDE will internally connect with start.spring.io website to create SpringBoot application (Spring Starter Project) |
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| Spring Boot = |
| Spring - xml configurations + Auto Config + Embedded Servers + Actuators |
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| What is Start Class in Spring Boot ? |
| -> Start class is entry point for boot application execution. |
| -> Start class is also called as main class in Spring Boot. |
| Note: When we create boot app, start class will create by default |
| @SpringBootApplication public class Application{ |
| public static void main(String args){ |
| SpringApplication.run(Application.class, args); |
| } |
| } |
| => The @SpringBootApplication annotation is equal to below 3 annotations |
| 1) @SpringBootConfiguration> @Configuration 2) @EnableAutoConfiguration 3) @ComponentScan |
| How IOC starting in Spring Boot ? |
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| => SpringApplication.run () method contains logic to start IOC container |
| boot-starter :: AnnotationConfigApplicationContext web-starter :: AnnotationConfigServletWebServerApplicationContext starter-webflux :: AnnotationConfigReactiveWebServerApplicationContext |
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What is Banner in Spring Boot ?

- -> Spring Logo which is printing on console is called as banner
- -> We have below 3 modes for banner
- 1) console (default) --->> prints on console
- 2) log --->> prints on log file
- 3) off --->> don't print banner
- -> We can set banner mode in application.properties file spring.main.banner-mode=off
- -> We can customize banner text in spring boot by creating banner.txt file under src/main/resources folder.

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