Last session : What is Spring Boot ?

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Today's session : Advantages of Spring Boot

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-> Spring Boot is just one approach to develop Spring Based applications with minimal or less configurations.

-> What type of apps we can develop using spring same type of apps can be developed using Spring Boot also.

-> If we use Spring framework then we are responsible to manage configurations.

-> Spring Boot came up with a concept called Auto-Configuration.

-> Auto-Configuration means spring boot will identify the configuration which is required for our application and it will provide that configuration.

-> Spring Boot came into market in the year of 2014 (Spring Boot 1.0v)

-> The current version of Spring Boot is 2.6v

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Advantages of Spring Boot

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1) Starter POMs

2) Dependency Version Mgmt

3) Auto-Configuration

4) Embedded Servers

5) Actuators etc..

-> Starter POMs nothing but maven/gradle dependencies. Spring Boot provided starter poms to reduce dependencies configuration in maven/gradle.

spring-boot-starter

spring-boot-starter-web

spring-boot-starter-webflux

spring-boot-starter-data-jpa

spring-boot-starter-mail

spring-boot-starter-security etc....

-> When we configure dependency in spring boot application then we no need to specify version number for dependency because spring boot will identify compatiable version for that based on spring-boot-parent-starter version.

-> Auto-Configuration means based on dependencies configured in pom.xml it will identify configuration required for our application and it will provide that configuration.

i) creating connection pool

ii) starting IOC container

iii) dependency injection

iv) starting server

v) deploying application

-> Embedded servers are in-built in spring boot application. When we add spring-boot-starter-web dependency then it will provide Apache Tomcat as default embedded server.

-> Actuators are used to monitor our application.

-> Getting application health

-> Getting beans loaded by application

-> Getting url-mappings of application

-> Getting config-props of application

-> Getting env info of application etc...

Spring Boot = Spring Framework - XML Configuration + AutoConfiguration

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Dis-Advantages of Spring Boot

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-> Converting existing spring project into spring boot application is difficult task.

-> Spring Boot is best suitable for brand new projects.

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