

## SpringBoot

-> spring boot all about auto configuration  
 -> we have to use either maven or gradle build tool to work with spring boot

>>>>What is springboot?  
 it is a framework for rapid application development built on top of the spring framework  
 we can also say, springboot is the combination of spring framework and embeded servers.

>>>>Why spring is used?  
 to design any spring based appliaction, a developer needs to be taken care on manual set up on hibernate data source, entity manager, session factory, transaction management everything.  
 To design all those common setup, a developer does not need to define everything individually, @springbootconfiguration annotation enough to manage everything at the time of deployment

>>>>what is the use of @SpringBootApplication annotation and how it works internally?  
 the @springbootApplication annotation is equivalent to using @configuration, @enableautoconfiguration and @componentscan with their default attributes.  
 springboot enables the developer to use a single annotation instead of using multiple.  
 But, as we know, spring provided loosely coupled features that we can use for each individual annotation as per our project needs.

>>>>what are starter dependencies?  
 springboot starters are maven templates that contains a collection of all relevant transitive dependencies that are needed to start a particular functionality

>>>>what is spring initializer? why should u use it?  
 one of the difficult things to start with a framework is initial setup, particularly if u r starting from scratch and u dont have a reference setup or project  
 spring intializer adressess this problemin springboot.  
 SI is nothing but a web application which helps you to create initial springboot project structure and provides maven to build ur code.

>>>>What is spring actuator? what are its advantages?  
 it is one of the cool springboot feature which allows seeing inside a running application  
 ex: memory management, cpu, no of threads etc  
 it uses HTTP endpoint or JMX beans to enable us to interaract with it  
 \*to control this behaviour at runtime - use JMX  
 \*by using / shutdown endpoint, we can kill a springboot application

>>>>what is springboot CLI? what are its benefits?  
 The Spring Boot CLI is a command line tool that you can use if you want to quickly develop a Spring application we can use springboot

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CLI.  
 It lets you run Groovy scripts, means you have a familiar Java-like syntax without so much boilerplate code.  
 You can also bootstrap a new project or write your own command for it.

>>>>Common SpringBoot Annotations?  
 @enableautoconfiguration--used to enable auto-configuration on spring boot application  
 @SpringBootApplication--used on the main class to allow it to run a jar file  
 @SpringBootTest--used to run on unit test on spring boot environment

>>>>Difference between @SpringBootApplication and @enableautoconfiguration annotation ?

>>>>can we disable the default web server in the spring boot application?  
 the major strong point in spring is to provide flexibility to build the application  
 spring provides features to disable the web server in a quick configuration  
 so, yes we can use the "application.properties" to configure web application i.e.  
 "spring.main.web-application-type=none"

>>>>can we override or replace the embedded tomcat server in spring boot?  
 yes, we can replace with other servers by using starter dependencies  
 u can use spring-boot-starter-jetty or spring-boot-starter-undertow as a dependancy for each project as u need

>>>>How to enable debug logging?  
 we can start the application with the --debug switch  
 we can set the logging.level.root=deug property in application.properties file

>>>>how to enable HTTPS/SSL support in spring boot?  
 this support can be added via application.properties and by adding some entries  
 like server.port=8443  
 server.ssl.key-alias=selsigned\_localhost\_sslserver

>>>>is this possible to change the port of embeded tomcat server in springboot ?  
 yes, u can the application.properties file to change the port.  
 but need to mention "server.port"

>>>>where do u define properties in spring boot application?  
 u can define both application and spring boot related properties in application.properties file

application.properties file  
we can create file manually or can use spring initializer to create file.

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