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Spring Boot 7AM

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**Spring Boot ( Spring Concepts XML/Java/Annotation)**

Youtube Playlist:

https://www.youtube.com/watch?v=EA43S5R8LSc&list=PLVlQHNRLflP9XSWeY4x4FLwnL3UOIxnTr

javabyraghu@gmail.com

https://www.facebook.com/groups/thejavatemple

Maven Session Videos:

https://www.youtube.com/watch?v=9eJAvApRAI0

https://www.youtube.com/watch?v=jOykBjSl1X0

https://www.youtube.com/watch?v=iLwuhbnFPqo

Spring Boot Application-3 setup files

a. Starter class : Create Spring container, start app.

b. Input files (2)

c. Build information file

Spring container inputs?2

Spring Bean (class) [Programmer defied + Pre-defined]

Spring Configuration File (Java/Annotation\*\*)

Annotation:

@Component

@Value

@Autowired

Java

@Configuration

@Bean

Q) How many types of Container exit in Spring/Spring Boot?

A) 2 Types

Old Container - BeanFactory (XML COnfiguration)

New Container - ApplicationContext (XML/Java/Annotation config)

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Softwares setup:

JDK : 8/11/14 (Latest-14)

> Download JDK

https://www.oracle.com/java/technologies/javase-jdk14-downloads.html

> Click on OS based Link > Ex: jdk-14.0.2\_windows-x64\_bin.exe > Accept > Download

> Double click > Next > Next > Finish.

STS:-

> Goto https://spring.io/tools

> Click on OS based link (File downloaded as JAR)

Ex: spring-tool-suite-4-4.7.1.RELEASE-e4.16.0-win32.win32.x86\_64.self-extracting.jar

> \*\*\* While downloading it may show [It may harm you system! Do you want to Download?]

Click on : YES.

> Double click on this JAR > Extracted to a folder.

> Open folder (ex: C:\Downloads\sts-4.7.1.RELEASE )

> Click on Option 'SpringToolSuite4'

> Enter workspace name [Folder name]

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**Creating First Application in STS**

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#1. Create Project

> File > New > Spring Starter Project > Enter details

Name : SpringBoot2FirstApp

Java Version: 14

> Next > Next > Finish

(ctrl and +/- for font size adjust)

#2. Run application (ctrl+F11 / ctrl+Fn+F11)

> Open Starter class(main class)

> Right click and Run as > Spring Boot Application

------Coding PART-------------

#3. Create one new class

> Right click on package name (com.example.demo) > new > class

> Enter name. ex: MessageService.

#4. code

package com.example.demo;

import org.springframework.stereotype.Component;

//ctrl+shift+O (imports)

@Component

public class MessageService {

public void getMsg() {

System.out.println("FROM FIRST APP");

}

}

#5. Modified main class | Starter class

package com.example.demo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.context.ApplicationContext;

@SpringBootApplication

public class SpringBoot2FirstAppApplication {

public static void main(String[] args) {

ApplicationContext ac = SpringApplication.run(SpringBoot2FirstAppApplication.class, args);

// read object (bean) using getBean(objName, ClassName.class)

MessageService ms = ac.getBean("messageService",MessageService.class);

ms.getMsg();

}

}

#6. Run application (ctrl+F11)

> Right click on Main class > Run as > Spring Boot application.

\*) Note : Spring Bean(class), bean(object created inside container).

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Creating First Application in Eclipse

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S#1

Download Eclipse any Latest version:

https://www.eclipse.org/downloads/packages/release/2020-09/m3

https://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/2020-09/M3/eclipse-jee-2020-09-M3-win32-x86\_64.zip

> Click on Download

> Download as ZIP

> Extract to a folder

Ex: C:\Downloads\eclipse

> Click on eclipse option

> Enter workspace(folder name)

ex: D:/myexamples

S#2

> \*\*\*(onetime setup)

> Goto Help > Eclipse Market Place > Search with Spring Tool suite

> select Spring Tool 4 (aka Spring Tool Suite 4)

> Click on INSTALL option > Next > Next > Finish

> After success > close Eclipse and open again.

S#3 Create one project

Create Project

> File > New > Spring Starter Project > Enter details

Name : SpringBoot2FirstApp

Java Version: 14

> Next > Next > Finish

#4. Write code

package com.example.demo;

//ctrl+shift+O

import org.springframework.beans.factory.annotation.Value;

import org.springframework.stereotype.Component;

@Component("eob")

public class EmpService {

@Value("NIT")

private String code;

// > Source Menu > Generate toString()

@Override

public String toString() {

return "EmpService [code=" + code + "]";

}

}

#5. Modified starter class

package com.example.demo;

//ctrl+shft+O (imports)

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.context.ApplicationContext;

@SpringBootApplication

public class SpringBoot2AppTestApplication {

public static void main(String[] args) {

ApplicationContext ac = SpringApplication.run(SpringBoot2AppTestApplication.class, args);

EmpService es = ac.getBean("eob",EmpService.class);

System.out.println(es);

}

}

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Q) What is toString() Explain it?

A)