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Spring Boot 7AM

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All Videos:-

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

Spring Core - Session-1

https://www.youtube.com/watch?v=xusQhpQuODk&list=PLVlQHNRLflP9XSWeY4x4FLwnL3UOIxnTr&index=12

Spring Core - Session-2 (Autowired)

https://www.youtube.com/watch?v=-FlszP92JVM&list=PLVlQHNRLflP9XSWeY4x4FLwnL3UOIxnTr&index=13

Autoconfiguration:

Parent Project-> child Project

Spring Boot Applications

1. Starter class | main() class | bootstrap

2. Input files (application.properties | application.yml)

3. Build Information File (pom.xml | build.gradle)

1. Starter class | main() class | bootstrap

create Spring container, start application.

**HAS-A Relation (Association Mapping)**

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Using child(interface/class) as a DataType and creating variable

insided Parent(class) is called as HAS-A Relation.

@Autowired :-

This annotation is used to link parent object with child object.

(Link HAS-A Variable with its type object).

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Annotation Config: Programmer defined class

@Component

@Value

@Autowired

Java Config : Pre-defined class (Core Java Style code)

Q) Can we modify .class file in Java?

A) No. It is not possible. We can read/decompile and can create

new one.

--Steps to write Java configuration--

a. Write one public class with any name

b. Apply one annotation over class: @Configuration

c. No.of methods = no.of Objects

d. Apply @Bean (object) over method

@Configuration

public class \_\_\_\_\_\_\_\_ {

@Bean

public <className> <objectName>() {

...object creation logic..

}

}

-------------Ex-------------------------

//consider pre-defined class

class HikariConn {

String driver;

String url;

}

-Java Configuration code--

@Configuration

public class AppConfig {

@Bean

public HikariConn con() {

HikariConn c = new HikariConn();

c.setDriver("Oracle");

c.setUrl("jdbc:orcl");

return c;

}

}

Q) Can use Java Configuration for Programmer defined classes?

A) YES, we can use. But not recomanded.

Code becomes lengthy. Use simple Annotation configuration.

Q) Can we use Annotation Config for pre-defined classes?

A) NO. Pre-defined class comes in .class format

that we can not modify.

Best Approch:

Annotation config : Programmer classes

Java Config : Pre-defined classes.

--Ex#2--------------------

//consider pre-defined class

class ExcelTemplate {

String file;

String sheet;

}

obj: et(file=ABC,sheet=ONE)

\*) If we miss @Bean that method behaves as unused.

@Configuration

public class AppConfig {

@Bean

public ExcelTemplate et() {

ExcelTemplate e = new ExcelTemplate();

e.setFile("ABC");

e.setSheet("ONE")

return e;

}

}

========Ex#3==========================

//consider given class is pre-defined

class ExportPool {

int code;

String mode;

}

--Java Configuration--

@Configuration

public class AppConfig {

@Bean

public ExportPool ep() {

ExportPool ep = new ExportPool();

ep.setCode(101);

ep.setMode("NIT");

return ep;

}

}

Q) What is @Component and @Bean ?

A) @Component and @Bean both indicates creating object by Spring container.

@Component is used for Programmer defined class(.java code)

@Bean is used for pre-defined class (.class file)

Q) What is @Component and @Configuration?

A) Actually both are different.

@Configuration: This is a Configuration file that contains

object details which are to be created in Spring container.

Q) Can we define multiple configuration files?

A) YES. All are loaded by Spring container and object created.