

Date : 07/12/2020  
Spring Boot 9AM  
(new batch)  
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Demo#1

<https://www.youtube.com/watch?v=L7zUhVLgoBA>

Demo#2

<https://www.youtube.com/watch?v=oCG4w6Rkcag>

## Chapter#1 Spring Boot Core

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\*) Rules to work with Spring Boot (Spring Core)

#1. Our Project is called as Child Project

This is connected to parent Project (Spring Boot)

We can create our Project using either Maven or Gradle.

#2. Spring Boot Application must have 3 types of files.

Those are:

- i. Starter class / Main class / Entry class/ Bootstrap class
- ii. Input Files (application.properties - or - application.yml)
- iii. Build Information file (Maven-pom.xml, Gradle-build.gradle)

i. Starter class / Main class / Entry class/ Bootstrap class

\*) This class behaves as a entry point of execution.

It mainly creates Spring container, by taking inputs from Programmer.

Spring container,

- a) Detect (Scan) our classes and create object
- b) Provid data to object created
- c) Link objects based on relations (HAS-A/Association Mapping)
- d) Finally Destory objects (when we stop application)

For this programmer has to give two inputs:

I) Spring Bean(class+rules given by container)

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

--Sample code--

@SpringBootApplication

public class DemoApp {

public static void main(String[] args) {

SpringApplication.run(DemoApp.class,args);

}

}

---

\*) Spring container two types:

- a) BeanFactory(I) (XML) [Legacy Container]

```

b) ApplicationContext(I) [XML/Java*/Annotation**] [new container]

=> Spring Boot uses new Container only 'ApplicationContext'.
*** Impl class is: AnnotationConfigApplicationContext(C)

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*) Spring Annotation Configuration:-
--> Creating Object : Stereotype Annotations (5)

a) @Component          = Creating object to our class
b) @Repository         = Creating object + DB Operations
  (Insert,Update,Delete...)
c) @Service            = Creating object + Calculations/Operations +
  Transaction Management..etc
d) @Controller         = Creating object + HTTP Protocol (web
  application)
e) @RestController     = Creating object + HTTP protocol (Global Data
  support + REST calls)

--> Data/Link specific

a) @Value -> Provide data
      static data/expression/****data from input files

b) @Autowired / @Qualifier / @Primary
      -> Linking objects

---Examples-----
@Component
class DbConn { }
=> Creates object using className first letter small in spring
container
    DbConn dbConn = new DbConn();

@Component("con")
class DbConn { }

=> we can provide object name also,
    DbConn con = new DbConn();

@Component
class DbConn {
    @Value("OracleDriver")
    String driver;
}

=> we can provide data to variables using @Value("Data")

```