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Spring Boot 9AM

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First 4 Demo Sessions Links:

Spring Boot Day -1: <https://youtu.be/L7zUhVLgoBA>

Spring Boot Day -2: <https://youtu.be/oCG4w6Rkcag>

Spring Boot Day -3: <https://youtu.be/diWOnew5VLk>

Spring Boot Day -4: <https://youtu.be/tmxJZlBB7Jw>

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Properties File (application.properties)

=> This file is used to Store data in key=val format in application.

=> Setup data is provided using properties file

- a) Database Connection like
driver-class=oracle, url=jdbc:orcl, username=system,
password=nit
- b) ORM/JPA Properties
dialect=MySQLDialect, show-sql=true, ddlauto=create ..etc
- c) MVC(web)
view.prefix=FolderName, suffix=.jsp
- e) Email
host=gmail, un=jbr@gm.com, pwd=abcd ..etc

=> In Spring boot properties file has a pre-defined name

'application.properties' (we can modify even).

This file exist in src/main/resource folder.

=> In Spring Boot, we can use two annotation to read data from Properties file

- a) @Value (To read one key data)
- b) @ConfigurationProperties (to read bulk/multiple values).

=> Here, we have two types of keys.

- a) Pre-defined keys (given by Spring boot)

Link:

<https://docs.spring.io/spring-boot/docs/current/reference/html/appendix-application-properties.html>

- b) Programmer-defined keys (given by programmer).

=> Key can have symbols like : dot(.) dash(-) and underscore(_) only.

=> *** Keys are case-sensitive (DRIVER=___, Driver=___, driver=___ are different).

=> If we use Symbol # that indicates comment.

=> If we provide duplicate key=val (ie same key with different values),

then last combination is considered.
(it is like value overriding).

ex:
sid=10
sid=20
sid=30

=> now, sid is 30 value taken in application.

Q) How can we load properties file into Spring Application using Annotation?

A) @PropertySource("fileName+location")

ex:
ProjectName
|-src/main/resource <--- classpath
|-abcd.properties

@PropertySource("classpath:abcd.properties")

ProjectName
|-myfiles <--- file
|-abcd.properties

@PropertySource("file:./myfiles/abcd.properties")

=====
Syntax: @Value("\${key}") => \$ - Reading data from properties

Ex: @Value("\${app.title}")

*) If we provide a key in code, which is not present in properties file

then spring boot throws exception:

IllegalArgumentException: Could not resolve placeholder 'app.ttles'
in value

"\${app.ttles}"

It means app.ttles key is not exist in properties file.

***** In case of Spring Boot, @SpringBootApplication annotation loads
by default application.properties into Spring container.

No need of writing :

@PropertySource("classpath:application.properties")
annotation.

-----code-----

S#1 Create Spring Boot Starter Project

> File > New > Spring Starter Project

> Enter details

Name : SpringBoot2PropertiesEx

```
Package : in.nareshit.raghu
```

```
> Next > Next > Finish
```

```
S#2 in application.properties
```

```
app.title-one=NIT  
app.title-one=ABC  
#Last combination is taken for duplicate keys  
app.title-one=MNO  
app.version=3.3
```

```
S#3 Define your own class
```

```
package in.narshit.raghu.bean;
```

```
import org.springframework.beans.factory.annotation.Value;  
import org.springframework.stereotype.Component;  
//ctrl+shift+O (imports)
```

```
@Component("ai")  
public class AppInfo {  
  
    @Value("${app.title-one}")  
    private String ttl;  
  
    @Value("${app.version}")  
    private Double ver;  
  
    //Source Menu > Generate toString() > Generate  
    public String toString() {  
        return "AppInfo [ttl=" + ttl + ", ver=" + ver + "];"  
    }  
  
}
```

```
S#4 Modify Starter class
```

```
package in.narshit.raghu;
```

```
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
import org.springframework.context.ApplicationContext;
```

```
import in.narshit.raghu.bean.AppInfo;
```

```
//ctrl+shift+O
```

```
@SpringBootApplication  
public class SpringBoot2PropertiesExApplication {  
  
    public static void main(String[] args) {  
        ApplicationContext ac =  
SpringApplication.run(SpringBoot2PropertiesExApplication.class, args);  
        AppInfo a = ac.getBean("ai", AppInfo.class);  
        System.out.println(a);  
    }  
  
}
```

```
}
```

```
=====
```

```
==  
Q) Can we write and load our own properties file with any name in  
Spring Boot?
```

```
A) YES, But not recomanded.
```

```
S#1 Define your properties file with any name (extension  
____.properties)
```

```
> Right click on 'src/main/resources' > new > file > Enter name :  
mydata.properties
```

```
> Enter content also
```

```
--mydata.properties---
```

```
app.title-one=my title
```

```
app.version=888.88
```

```
-----
```

```
S#2 At Main class/Startre class write
```

```
    @PropertySource("classpath:mydata.properties")
```

```
=====
```