

Phase 3

Total session 9

Spring framework and Spring boot, Unit testing, Rest full web service and micro service using Spring framework/spring boot

Day 6

Spring boot with Database

1. Data source : auto wired for data source in dao layer
2. JdbcTemplate : in Dao layer we can do di for JdbcTemplate
3. ORM : From Spring boot 1.56 x version on ward spring boot not supporting hibernate.
4. Spring boot with JPA.
5. Spring boot with Spring JPA Data

Spring boot with Spring JPA Data

1. bean/entity package
2. controller package
3. service package
4. dao package

inside `application.properties` file we provide all database details like which we done in spring mvc inside `dispatcher-servlet.xml` file.

Starter

web starter

jpa starter : orm features

mysql connector

jsp jasper : view as jsp

Spring JPA Data : It provided pre defined interface ie CrudRepository or JpaRepository. This interface is base upon java 8 features. From java 8 onward interface can contains method with body. But we need to use default or static keyword with those methods.

CrudRepository or JpaRepository interface contains java 8 base method with all crud operation with default implementation.

In Spring Data as a develop we are not wring single line code. All dao layer code is taken care by Spring jpa data.

In dao layer we need to create interface and that interface extends CrudRepository interface or JpaRepository interface with generic first parameter entity class and second parameter primary column data types.

Inside one project many employees work.

One project has many employees.

```
create table employees(id int primary key,name varchar(30), age int, pid int,  
foreign key(pid) references project(pid));
```