## Fresher(Upto 2 years)

## 

- SpringBoot
  - a. SpringCore basics
  - b. SpringJDBC
  - c. SpringORM
  - d. SpringDataJPa
  - e. SpringMVC
  - f. SpringAOP
- 2+ years of Experience
  - SpringBoot
  - 2. SpringRest and Microservices
  - 3. Design patterns and basics of Cloud

## DataJpa Pending topics

- 1. Working with Embeded Database
- 2. Working with Postgresql Database
- 3. Working with Mulitple database
- 4. Association
- 5. SpringMail

Embeded :: By default it would be a part of software.

Embedded Database :: When running the application(In JRE it would available)
Once the application stops then Database Memory would be taken away from JRE.

For POC(Proof of Concept) by default SpringBoot supports a database called "H2".

Working with EmbededDatabase[Default port is the port which is used for running applications]

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Create a dependancy with H2, Lombok, Datajpa, SpringWeb

1. To work with Embeded Database we need to use the following dependancy in pom.xml file

<dependency>

<groupId>com.h2database</groupId>
<artifactId>h2</artifactId>

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<scope>runtime</scope>

</dependency>

application.properites

#Details about H2 database

spring.datasource.driverClassName=org.h2.Driver

spring.datasource.url=jdbc:h2:mem:ineurondb

spring.datasource.username=sa

spring.datasource.password=

#Displaying the query details on console

spring.jpa.show-sql=true

spring.jpa.hibernate.ddl-auto=update

spring.jpa.properties.hibernate.format\_sql=true

```
#Dialect information of h2 database
spring.jpa.database-platform=org.hibernate.dialect.H2Dialect
#enabling the H2 console
spring.h2.console.enabled=true
#Server port to host our application and same port will be used for H2-Database
also
server.port=4444
3. Model(Student)[id, name, email, address]
4. in.ineuron.restcontroller
            [Endpoints
                  a. POST
                            => /register
                  b. GET
                           => /student/findAll,
                  c. GET => /student/
d. PUT => /register
                           => /student/find/{id} ,
                  e. DELETE => /student/{id}
            1
5. run the application and test the h2 database in the following url
           http://localhost:4444/h2-console
                        refer:: SpringRest-H2-Database-App
Working with PostgreSQL[Portno:: 5432]
Download and install postgresql from the following link
           https://www.enterprisedb.com/downloads/postgres-postgresgl-downloads
1. Create a project with the following starter files
            datajpa, web, postgresql driver
pom.xml
======
<dependency>
      <groupId>org.postgresql</groupId>
      <artifactId>postgresql</artifactId>
      <scope>runtime</scope>
</dependency>
2. Create application.properties
#Driver url, username, password
spring.datasource.dbcp2.driver-class-name= org.postgresql.Driver
spring.datasource.url=jdbc:postgresgl://localhost:5432/ineuronDb
spring.datasource.username=postgres
spring.datasource.password=root123
## Hibernate Properties
# The SQL dialect makes Hibernate generate better SQL for the chosen database
spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.PostgreSQLDialect
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.format_sql=true
# Hibernate ddl auto (create, create-drop, validate, update)
spring.jpa.hibernate.ddl-auto = update
```

#Server port to host our application and same port will be used for H2-Database also server.port=4444

- 3. To open postgresql just pgadmin4 and type password of the dbadmin to open.
- 4. Run the application and test in postman client

refer:: SpringRest-PostgreSQL-App