CREATING FULL STACK PROJECT(SPRINGBOOT+ANGULAR)

Controller---🡪service--🡪Repository--🡪Datasource(MY sql)

Front-end will connect with controller using DTO

Spring data JPA->my sql

Spring rest controller->through http client->angular services

Components contains properties and methods,components will handle user interface data

1.Create springboot project

Open spring initializer or in sts( file->new->spring starter project)

Project:maven

Language:java

Springboot:2.7.6

Project metadata:

Group:com.project(any project name)

Artifact:SpringAngular(name of project)

Packaging:jar

Version:8

Add dependency

1.spring web

2.spring data JPA(internally uses hibernate as a JPA provider)(to develop a repository layer

3.My sql Driver

4.Lombok(we can remove **boilerplate codes such as setter getter method,to string method)it**

**How to add Lombok:**

@Data->should add just before class

**5.Devtools:if we are doing any changes no need to restart again and again**

Generate(if created from spring initializer from downloads extract it and import)

Add properties mavenplugin in pom .xml

Update maven(right click->maven->update project)

**Create database in mysql(no need to create tables because hibernate will create tables)**

Set application properties(src/main/resource->application properties)

2.create package structure:there is a default package in that package right click and create 5 packages

1.controller

Create class->customercontroller

2.Repository

3.model/Entity

4.DTO

5.service

Angular:

https://nodejs.org/en/download/

installing node js

type in cmd

node -v

to check version

npm -v

to install angular type in cmd

npm install -g @angular/cli-install angular

ng version---check version

to download vs

https://code.visualstudio.com/download

cmd type to get vs code--> code .

ng new angular-frontend-->to create new project

open vs

->code .

ng serve to run project

installing bootstap

ng add @ng-bootstrap/ng-bootstrap

Angular-FontAwesome Link :ng add @fortawesome/angular-fontawesome

create component:

ng generate **c component name**

**ng g c componentname**