**How to make a Maven Project:**

**In Spring Tool** (for backend)**:**

1. Click File on the top left corner of Spring Tool Software 🡪 click New 🡪 Other 🡪 Maven 🡪 Maven Project 🡪 Check box for create simple project 🡪 next
2. Under artifact configuration

Group Id: com.revature

Artifact Id: Project2

🡪 Finish

1. Right click project name in Spring Tool Software 🡪 click Maven 🡪 Update Project (Software will change Java library version from 1.5 to 1.8 automatically)
2. Click on pom.xml file, add dependencies to the file
3. Create a Driver class. Under Project 2, under src/main/java, create a package named com.revature, then create a class named Driver, case sensitive.
4. In the file hibernate.cmg.xml under src/main/resources, change p2 to name of the database (named it project2 which is the database name created in postgresSQL), See below:

<**property** name=*"hibernate.connection.url"*>jdbc:postgresql://localhost:5432/postgres?currentSchema=project2</**property**>

<**property** name=*"hibernate.default\_schema"*>project2</**property**>

Register model names in this file as well. Jiemin. Chengong. Wu Di. Da la.

1. Package names under src/main/java
   1. com.revature – contains the Driver
   2. com.revature.controller
   3. com.revature.models
   4. com.revature.repositories
   5. com.revature.services
   6. com.revature.utils – contains HibernateUtil.java
2. under src/main/resources
   1. hibernate.cfg.xml

How to Be Hired by Huawei:

1. go to GitHub, in project, click on copy button under clone
2. go to fullstack folder in C:\Users\james\fullstack
3. right click, click Git Bash Here
4. In Git Bash, type **git clone <paste clone link here>**, hit enter
5. After clone 100% completed in Git Bash, In Spring Tool:

File 🡪 Import 🡪 Maven 🡪 existing Maven projects 🡪 Browse… 🡪 Select a folder 🡪 Finish

Install Node.js

1. IMPORTANT: not all default settings, select npm package manager option rather than runtime, everything else default
2. Install Node.js before installing npm angular

**In Visual Studio Code** (for Frontend):

1. File 🡪 Add folder to WoRkSpAcE, add Project2 and Project3
2. Go to Node.js website to download **Node.js** to the computer.
3. Right click on Project’s FrontEnd 🡪 --open in integrated terminal, or go to command line and go into the with change directory cd commands, then copy paste npm install into command line to install Node Package Manager, type in npm audit fix to fix the issues
4. Then type in **npm i -g @angular/cli@latest** to install angular
5. After the backend and frontend coding is done, run backend Driver or Launcher. Open Postman software, add/get/update data to the database here to test if the connection between backend and database is successful. If it is successful, then type in **ng serve** to render the app on the website (http://localhose4200), if ng serve is not allowed in integrated VS terminal, go to Git Bash or Command Prompt and type in ng serve.

Create a new project, which can be named Project1 if you wish, which has a backend AND a frontend. These following steps are in regards to creating the frontend.

1. In Git Bash, type ng new Project1
2. ng g c components/login
3. ng g class models/user
4. ng g s services/login

**In postgresSQL (database);**

Create a database name in postgresSQL called “project2” which is registered in the file hibernate.cmg.xml (See up -- **In Spring Tool** (for backend)**: 6**). (\*\*all the database names in postgresSQL should be lower cases).

**In Postman Software:**

1. Click on + sign next to Collections, rename to Project2 (first run Project2 in backend in Spring Tool Suite 4.8.1!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!)
2. Postman checks backend and database connection!!!!!!!!!!!!!!!!!!!!
3. Right click 🡪 New Request

Postgres table user names lowercase

🡪FrontEnd, right-click, Git Bash here 🡪 type ng serve into bash