

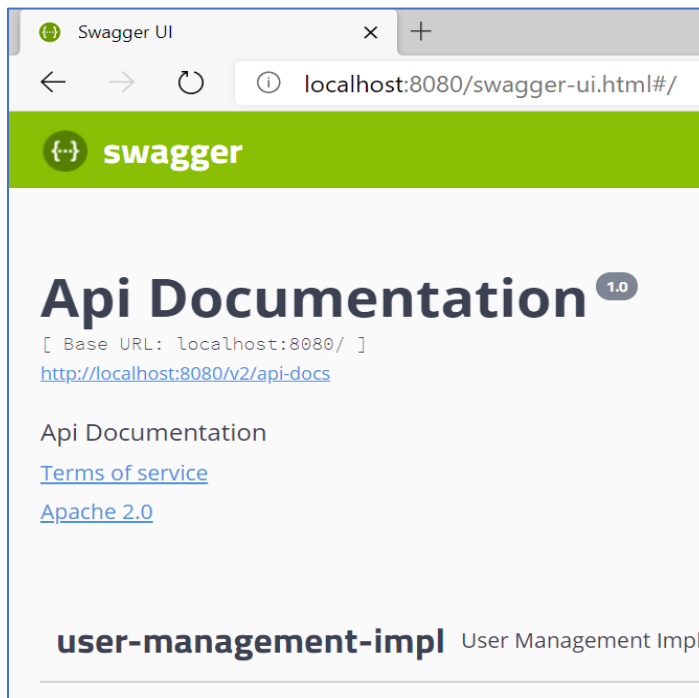
1. How to build project – EmployeeManagement (EM)

This is Spring boot project, so you need JDK (prefer JDK11, Eclipse IDE) to build and run it.

- Run project with “**mvn spring-boot:run**”
- Run Unit Test: “**mvn test**”

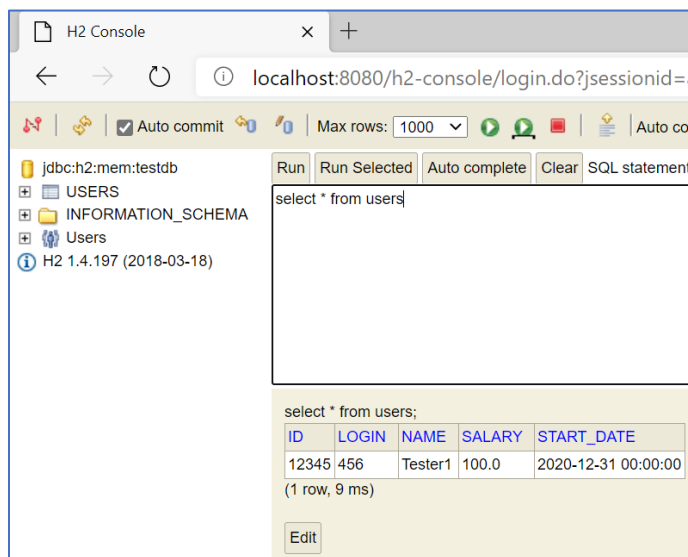
2. Swagger

After starting the application, you can access swagger at: <http://localhost:8080/swagger-ui.html>

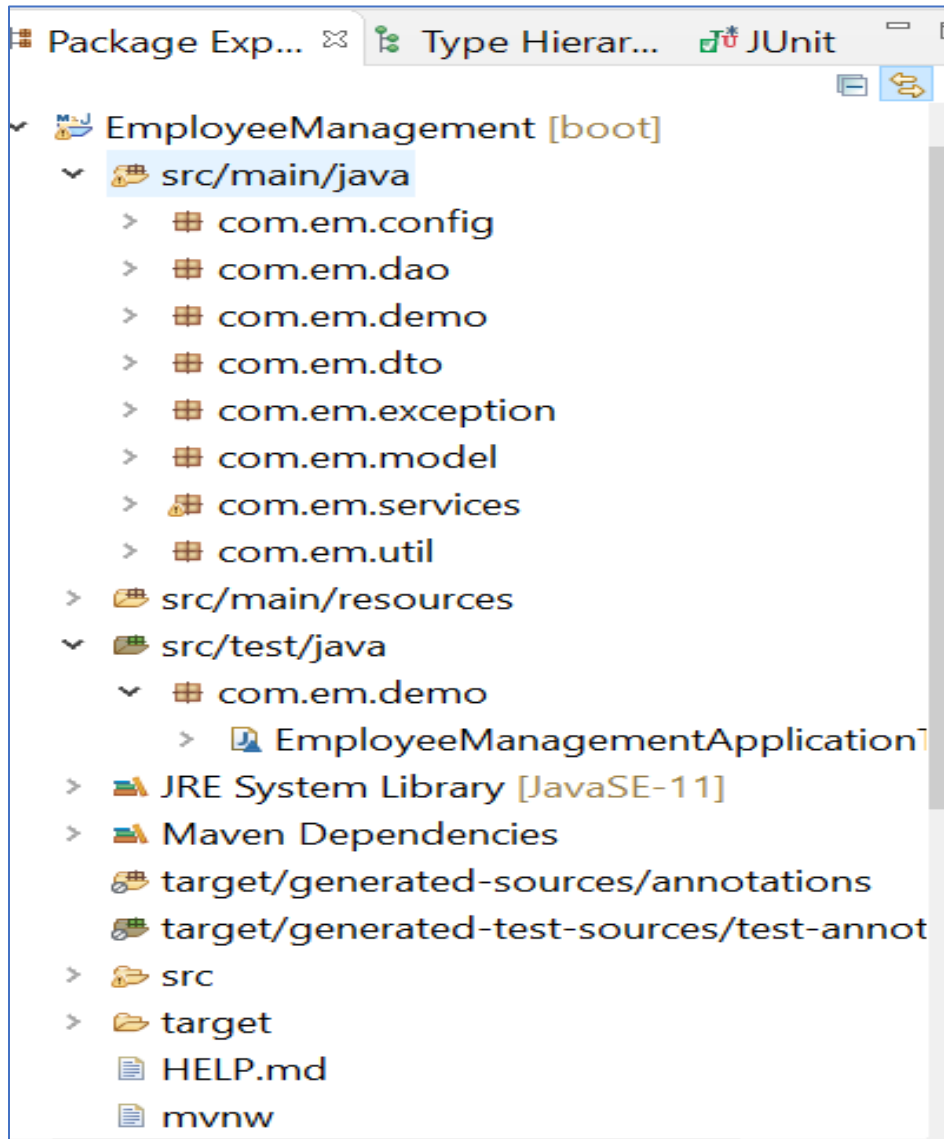


3. H2 Database

After starting the application, you can access H2 DB at: <http://localhost:8080/h2-console>



4. Software Structure



- EmployeeManagementApplication.java is main entry point of the program.
- **package** com.em.model for model. I am using Spring JPA.
- **package** com.em.services for restful services.
- **package** com.em.dto for all DTOs which mainly use for restful services.
- EmployeeManagementApplicationTests.java is **unit** test.
- /resource/schema.sql this script will auto run when program starts to create **users** table and insert a sample record for testing.
- EmployeeManagement/usersUpload.csv: this csv for upload file test data. Using **swagger** to upload file for testing.
- I assume that the "Response Status" is application status code, not http status code.

5. Improvement

- If you want customize http response code, you may want to use class `GlobalExceptionHandler.java` in `package com.em.exception` which will catch all exceptions from any service. So, you can handle all specific exceptions which request to change http response code in one place.