

Lab 1.1

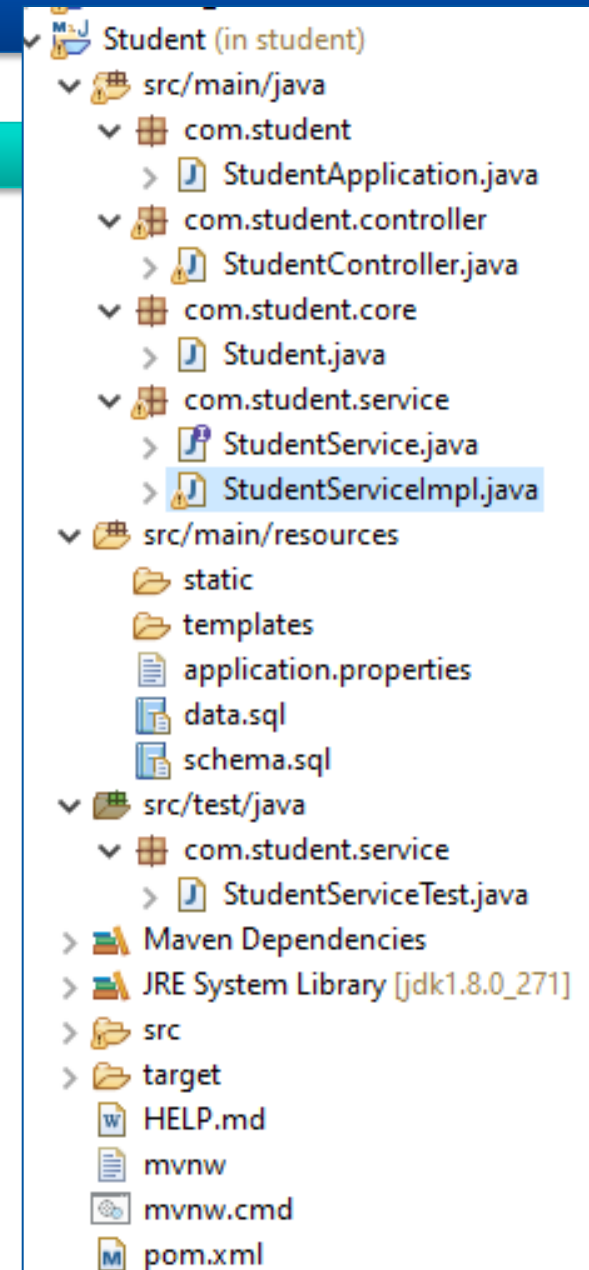
Utilize and Injected EntityManager

In the setup directory for your course Lab01.1 contains a maven project that we will work in. Open the project in eclipse. We can see that this is a Spring Boot Project with the necessary dependencies already attached to it via the maven pom. You may have to do a maven clean and build for the all the dependencies to resolve.

We are using a n H2 embedded database that will be populated at application start up time and then dropped. Great for testing purposes. It is populated from the schema.sql and data.sql file that you will find under the resources directory of your project

If you open the class Student, you will see that it is already annotated as a JPA Entity

You also have a test class under src/test/java



Delegate to the EntityManager and Database

In the class `StudentServiceImpl`, there are several TODO statements. You are to Inject in an `EntityManager` using `@PersistenceContext`

Use this `EntityManager` to in the two methods to;

- Get an individual student using `find(Student.class, id)`;
- Create a query, `"SELECT student FROM Student student", Student.class"` and from that query execute the `getResultList` method to bring back the Collection of students

You can test using the provided JUnit test class as previously mentioned, this `SpringBootTest` test class actually launches the Spring Boot application ensuring all dependencies for JPA are in place without the need for further configuration, however, currently our application has no web capabilities because the `application.properties` class has omitted them with the entry `"spring.main.web-application-type=none"`