

JPA workshop - part 1:

1. Create a new Java 8 SpringBoot project with the following dependencies:
 - a. Spring Boot DevTools
 - b. Spring Web
 - c. Spring Data JPA
 - d. MySQL Driver
 - e. H2 Database
2. Import your project into your IDE and do the following:
 - a. Change H2 Database dependency in pom.xml to only be active in the test scope.
 - b. Add configurations to application.properties.
 - c. Create needed database in MySQL with the correct name.
 - d. Create a commit and push to GitHub when everything is working.
3. Create AppUser class in a new package called entity, it should have the following fields:
 - a. Id, firstName, lastName and email.
 - b. Test your methods.
 - c. Commit your changes.
4. Create Product in the entity package with following fields:
 - a. Id, name, price
 - b. Test and commit
5. Create OrderItem class in entity with the following fields:
 - a. Id, quantity, product, productOrder (Need to create a new class in same package called ProductOrder)
 - b. Add a method that calculate the price with help from product and quantity.
 - c. Test and commit
6. In ProductOrder class add the following fields:
 - a. Id, orderDateTime, some collection of OrderItem, customer (AppUser)
 - b. Add methods that add and remove orderItems in a bidirectional way.
 - c. Add a method that calculate the total price for all orderItems.
 - d. Test and commit