



Department of Computer Science & Software Engineering

Web-Based Enterprise Application Design

Assignment 3 Report
SOEN 387

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Due: Dec 04th, 2023

Environment and How to Run

Here are the steps for running the project:

1. Open Navicat software, connect to the database service, and create a database named shopping.
2. Right-click on the database and select "Run SQL File".
3. Navigate to the webapps directory in the Tomcat home folder and copy the war file into it.
4. Go to the bin directory in the Tomcat home folder and double-click startup.sh if you are on a Mac system, or startup.bat if you are on a Windows system. You will see an execution window appear.
5. Open your web browser and visit the homepage.

Please note you need to change the in DBUtil.java if you wanna run the source code on IDE(Eclipse or Idea), please put the “test.bd” in a proper path.

3 usages

```
public class DBUtil {
```

1 usage

```
private static String url = "jdbc:sqlite D:\\JavaEn\\sqlite\\data\\test.db";

static {
    try {
        Driver driver = (Driver) Class.forName( className: "org.sqlite.JDBC").newInstance();
        DriverManager.registerDriver(driver);
    } catch (Exception e) {
        throw new RuntimeException(e);
    }
}
```

Account (default)

username: admin password : 123456 role: Admin

username: John@qq.com password:123456 role: User

UML



Note: Please see the attachment named **UML.jpeg** to see better resolution diagram details

Unit Test

SetOrderOwner() Unit Test:

This test checks the updateOrders method of the OrdersService class. The steps include:

Creating instances of OrdersService and Orders.

Setting various properties of the Orders instance such as order ID, order number, address, creation time, status, product ID, quantity, and user ID.

Calling the updateOrders method to update the order information.

Outputting a success or error message based on the return value of the method.

Source Code:

```
public class UnitTest {  
  
    @Test  
    public void SetOrderOwner() {  
        OrdersService ordersService = new OrdersService();  
        Orders orders = new Orders();  
        orders.setId(1);  
        orders.setNo("N1701126240051");  
        orders.setAddress("beijin");  
        orders.setTrackingNumber(null);  
        orders.setCreateTime(new Date());  
        orders.setStatus(1);  
        orders.setProductId(1);  
        orders.setNums(1);  
        orders.setUserId(4);  
  
        boolean b = ordersService.updateOrders(orders);  
        if (b) {
```

```

        System.out.println("update success");
    } else {
        System.out.println("update error");
    }
}

```

Output Result: Passed

```

>> ✓ Tests passed: 1 of 1 test – 461 ms
ms C:\Users\HELL0\.jdk\corretto-1.8.0_392\bin\java.exe ...
ms update success

Process finished with exit code 0

```

SetPasscode() Unit Test:

This test checks the updateUser method of the UserService class. The steps include:

Creating instances of UserService and User.

Setting various properties of the User instance, such as ID, password, username, nickname, and role.

Calling the updateUser method to update user information.

Outputting a success or error message based on the return value of the method.

@Test

```

public void SetPasscode() {
    UserService userService = new UserService();
    User user = new User();
    user.setId(4);
    user.setPassword("1234567");
    user.setUsername("test@qq.com");
    user.setNickname("Test");
    user.setRole("user");
    boolean b = userService.updateUser(user);
    if (b) {
        System.out.println("update success");
    } else {
        System.out.println("update error");
    }
}

```

OutPut: Passed

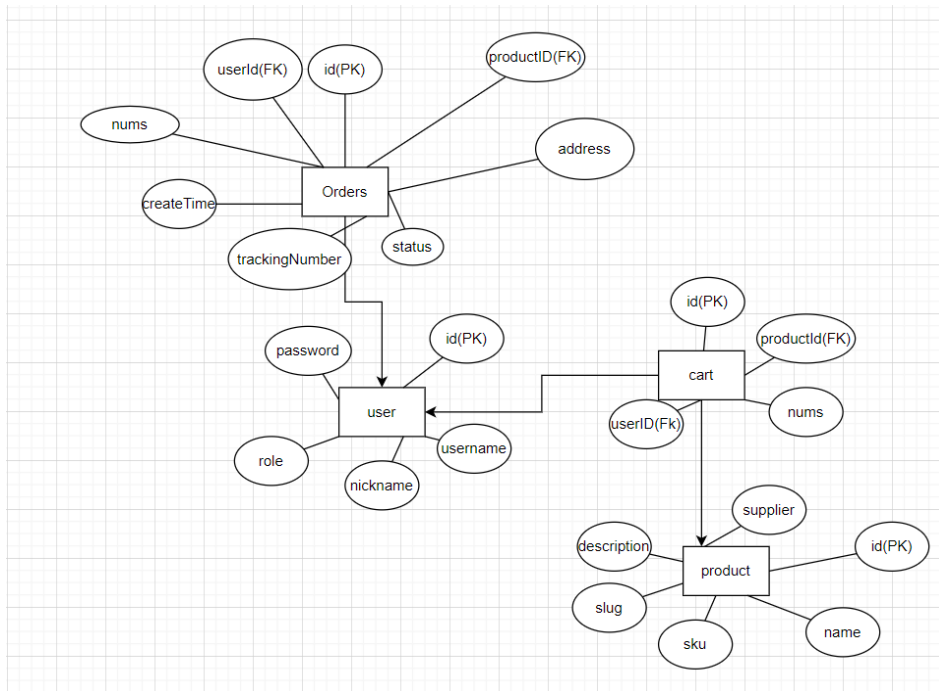
```

>> ✓ Tests passed: 1 of 1 test – 355 ms
ms C:\Users\HELL0\.jdk\corretto-1.8.0_392\bin\java.exe ...
ms update error

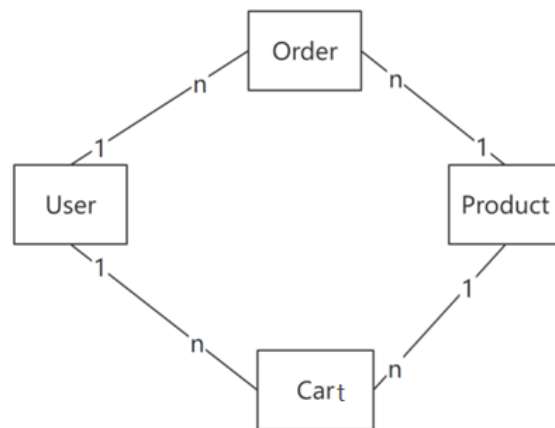
Process finished with exit code 0

```

ER Diagram



Database Cardinality



Git Version Control

<https://github.com/yookojin/comp387project>

Latest version will be under the branch of “V2”

Technology outside the assignment's scope

Vue.js Framework