

# Università degli Studi di Salerno

## Corso Ingegneria del Software

**gpuBase**  
**Unit Test**



### Partecipanti:

Luigi Gallo	0512105704
Luigi Nacchia	0512105854
Giovanni Gaetano Nocerino	0512105974

# 1.Introduzione

Per testing di unità si intende il delle singole unità software del sistema. Il test verrà effettuato con il framework JUnit insieme alla libreria Mockito.

## 2.Relazione con altri documenti

Per individuare i test da effettuare si utilizzerà la tecnica Black-Box, quindi ci baseremo sui

documenti prodotti precedentemente:

- TEST\_PLAN
- TEST\_CASE

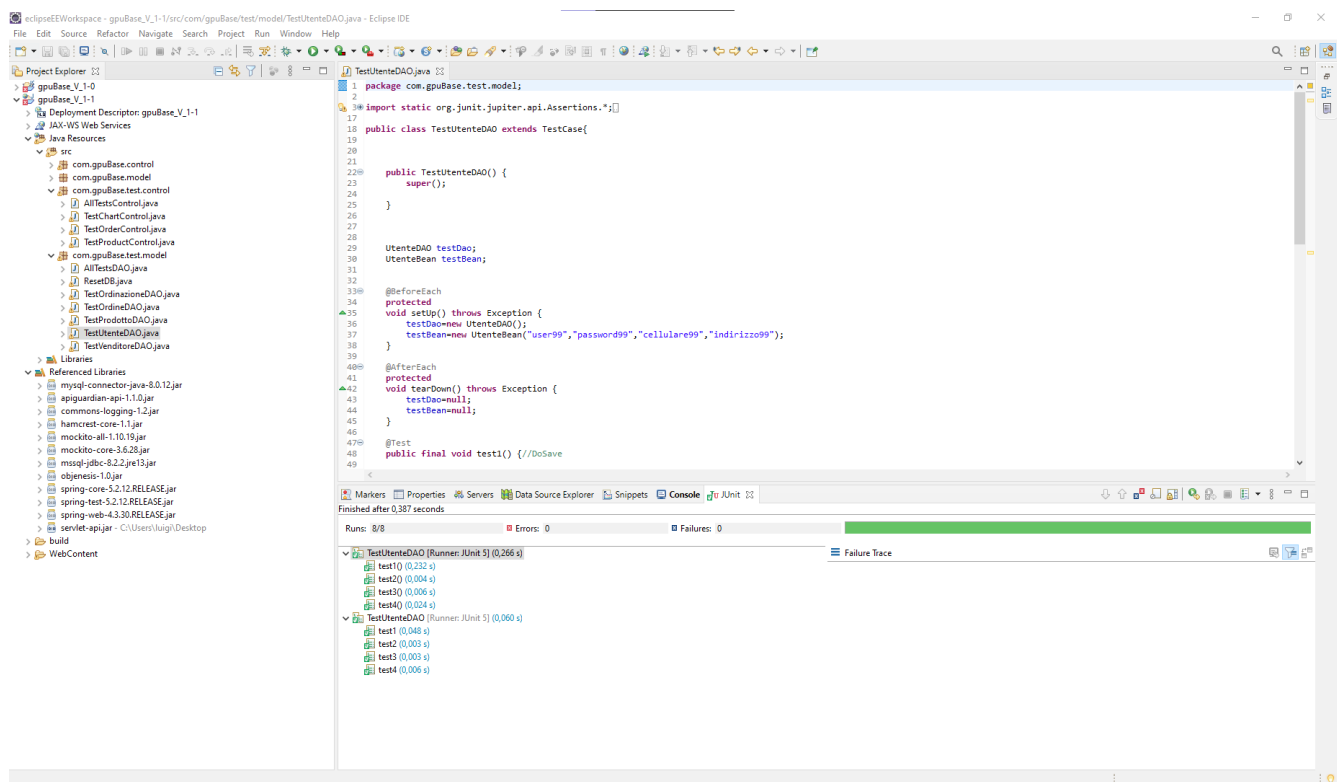
## 3.Approccio

Il testing di unità verrà diviso in testingDAO e testingServlet, dove verranno testati singolarmente i dao e le servlet del sistema.

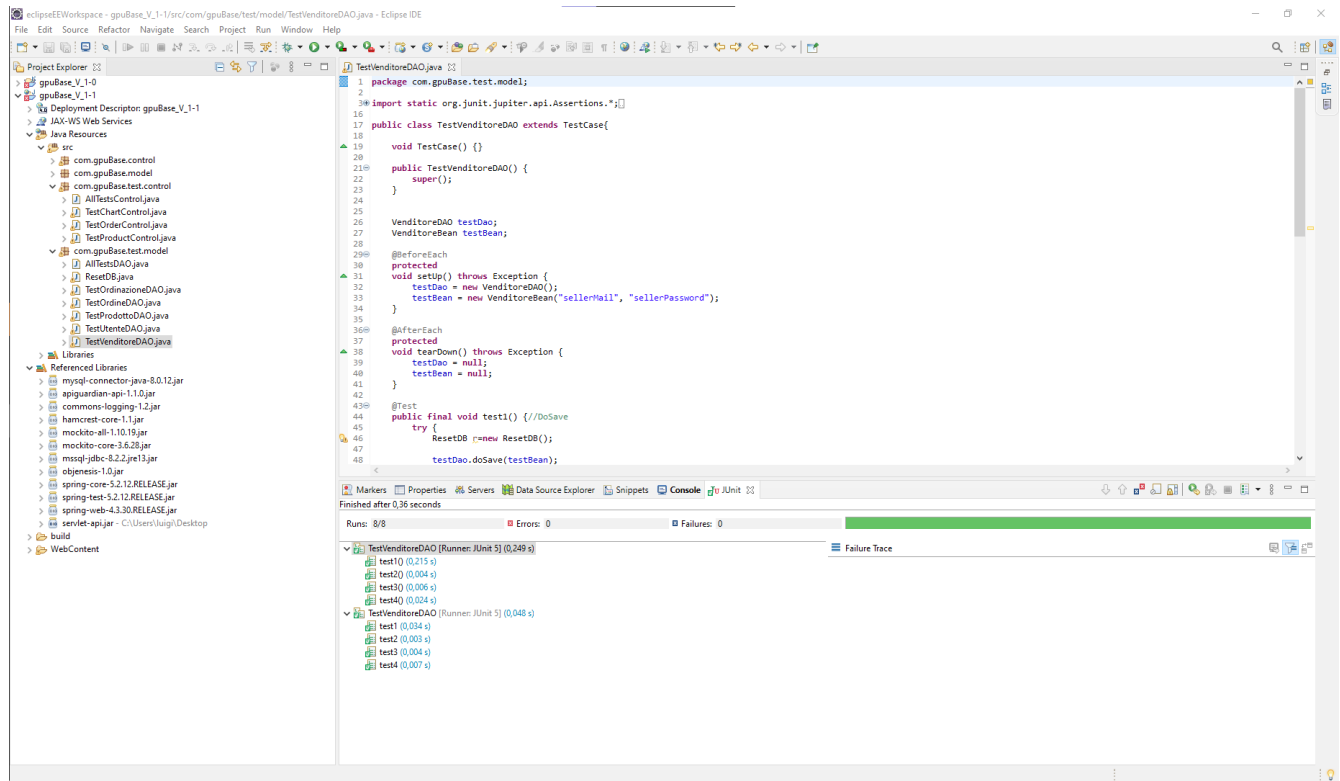
## 4.Testing di unità

### 4.1 – TestDAO

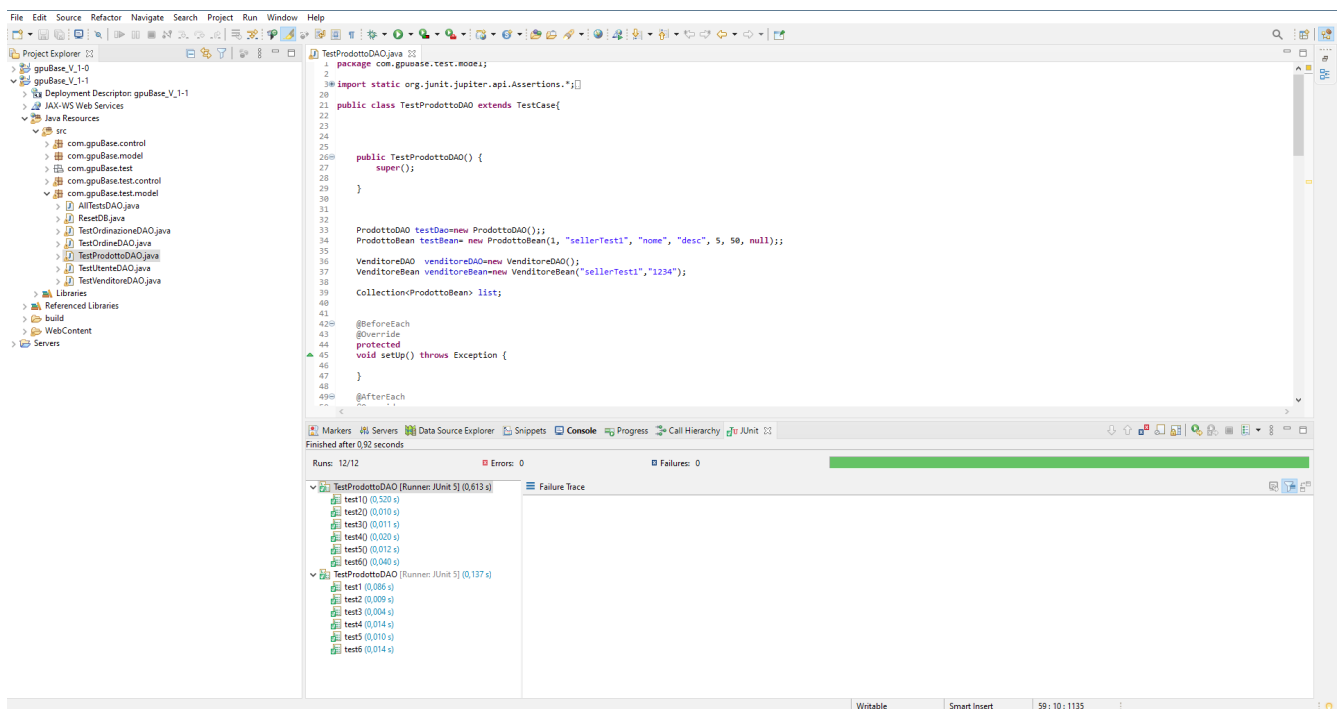
#### TestUtenteDAO



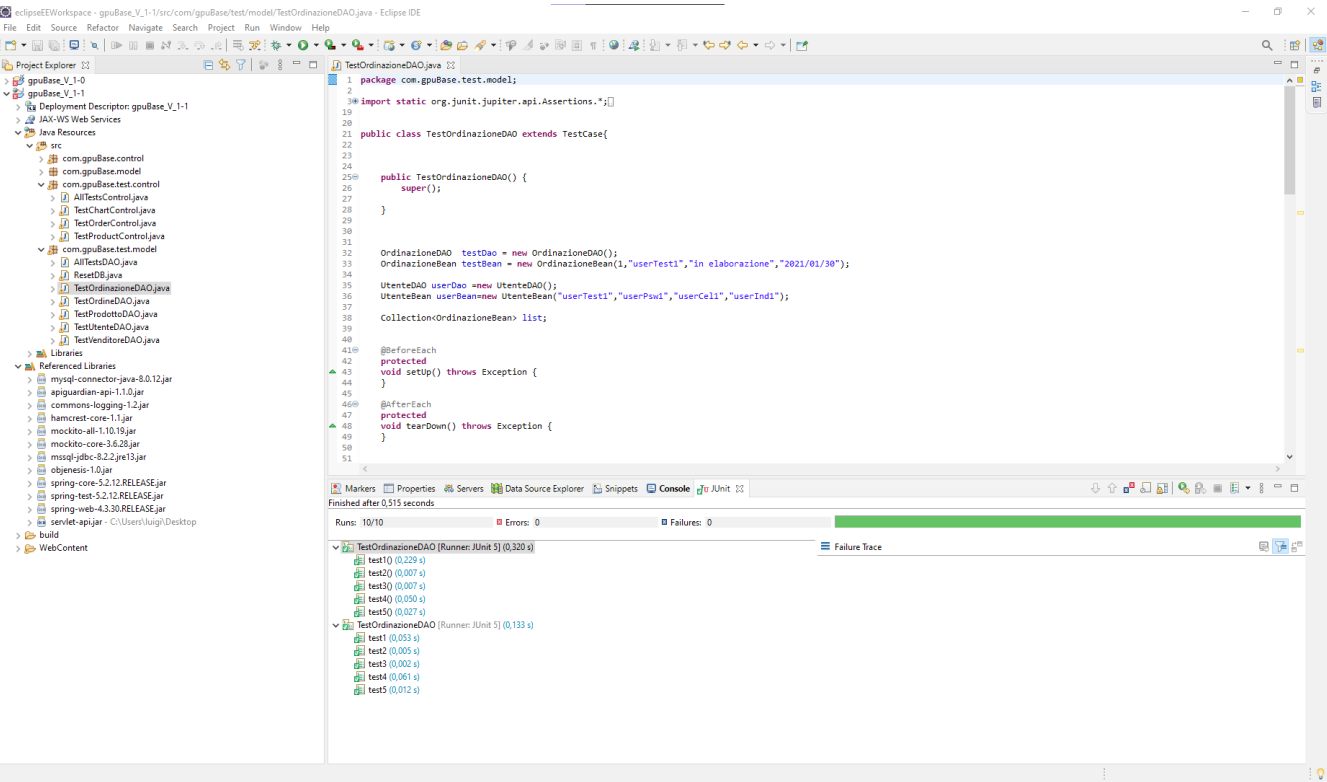
# TestVenditoreDAO



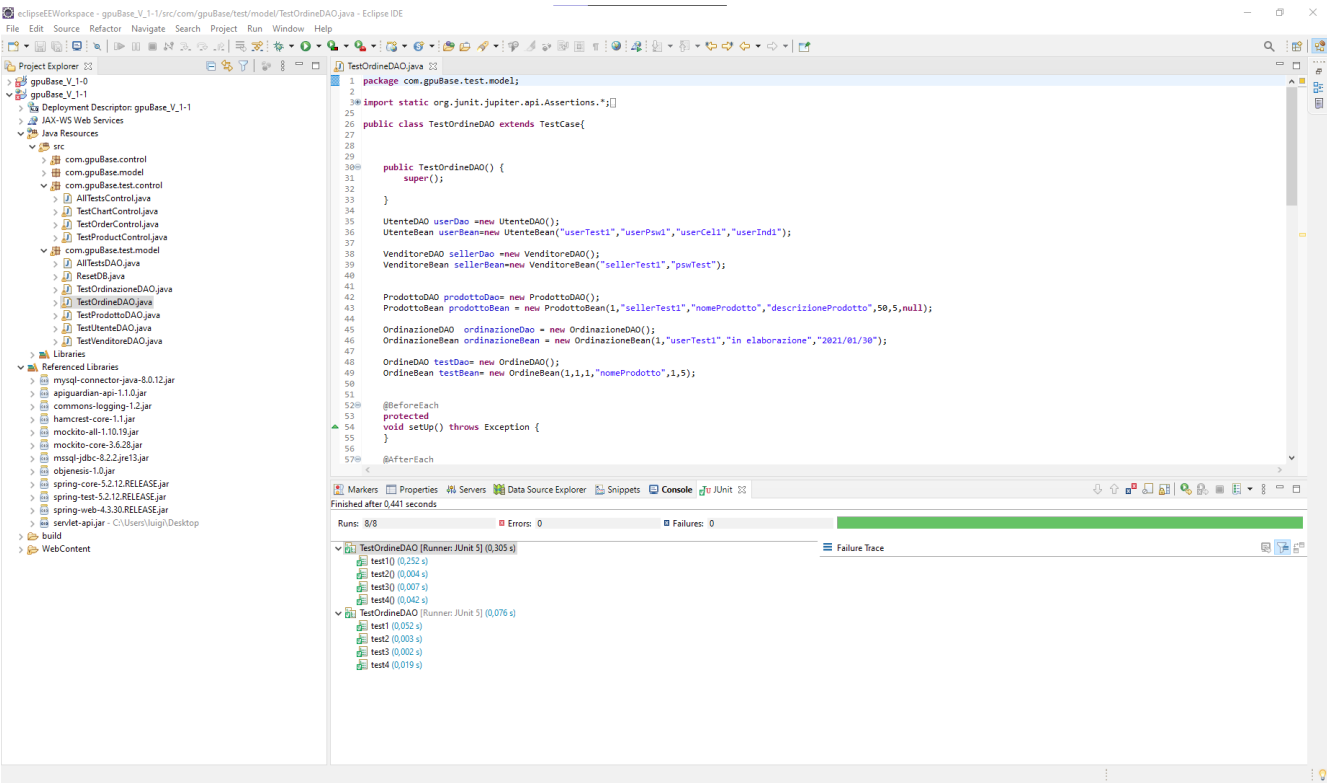
# TestProdottoDAO



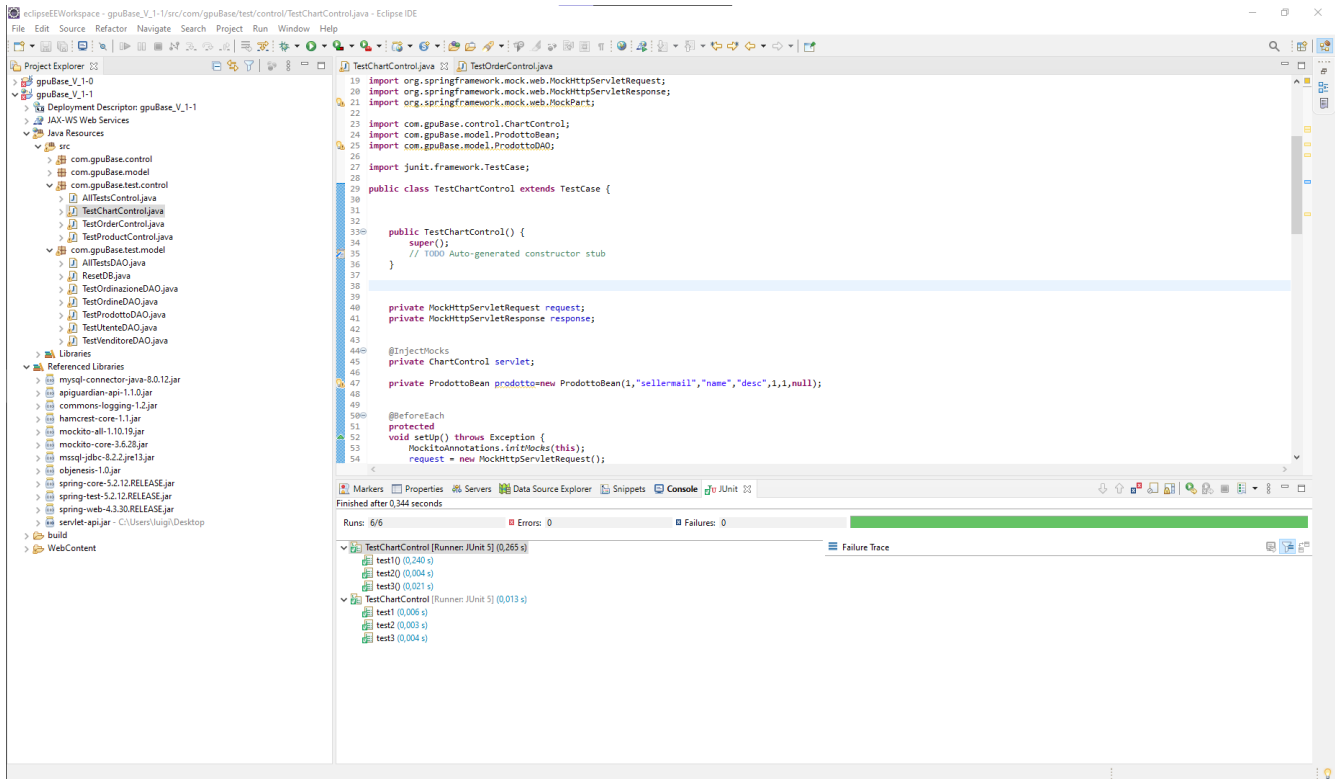
# TestOrdinazioneDAO



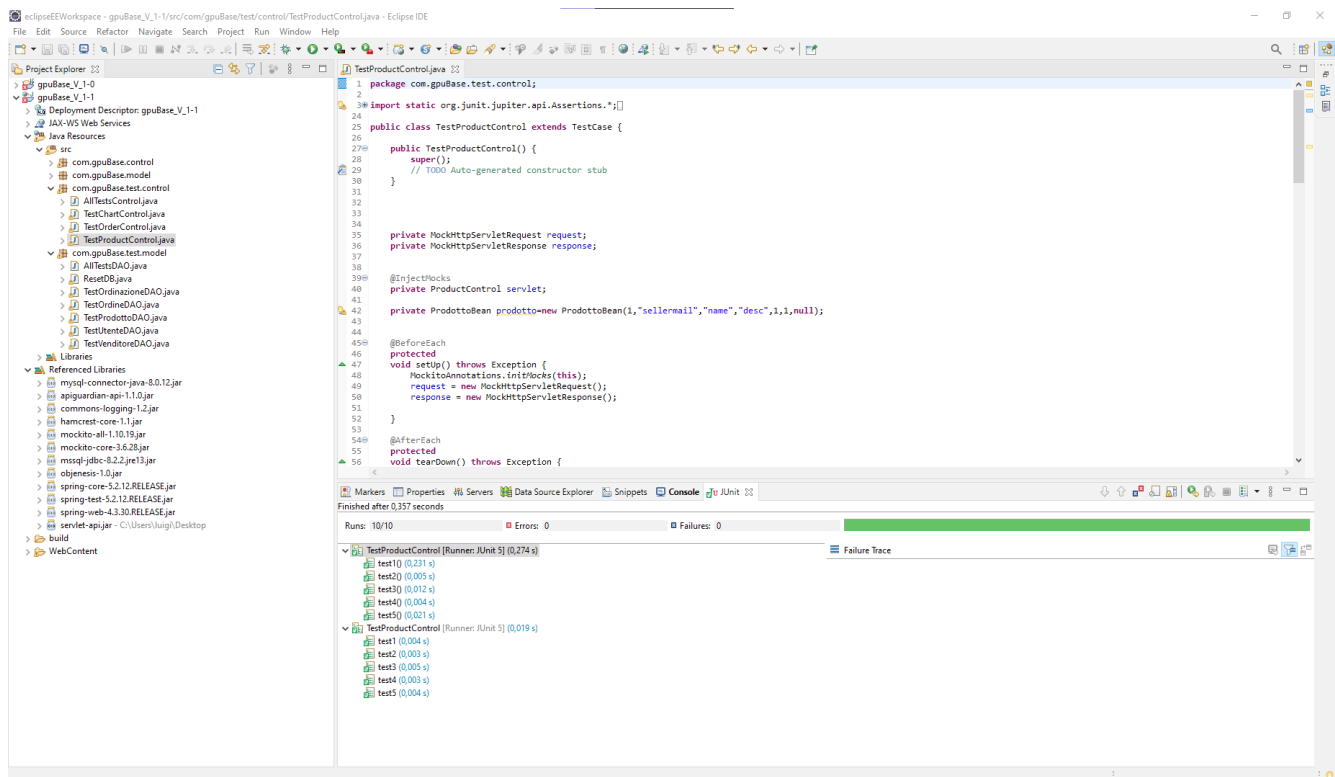
# TestOrdineDAO



## 4.2– TestControl (Servlet) TestChartControl



## TestProdottoControl



# TestOrderControl

The screenshot displays the Eclipse IDE interface. The Project Explorer on the left shows the project structure for 'gpuBase\_V\_1-1', including packages like 'com.gpuBase.control' and 'com.gpuBase.test.control'. The main editor shows the 'TestOrderControl.java' file, which is a JUnit 5 test class. The code includes imports for JUnit 5, Mockito, and Spring Framework, and defines a 'TestOrderControl' class that extends 'TestCase'. The test class contains a constructor and a 'test' method. The bottom panel shows the 'JUnit' view, indicating that the tests passed successfully. The 'TestOrderControl' class is highlighted in the code editor.

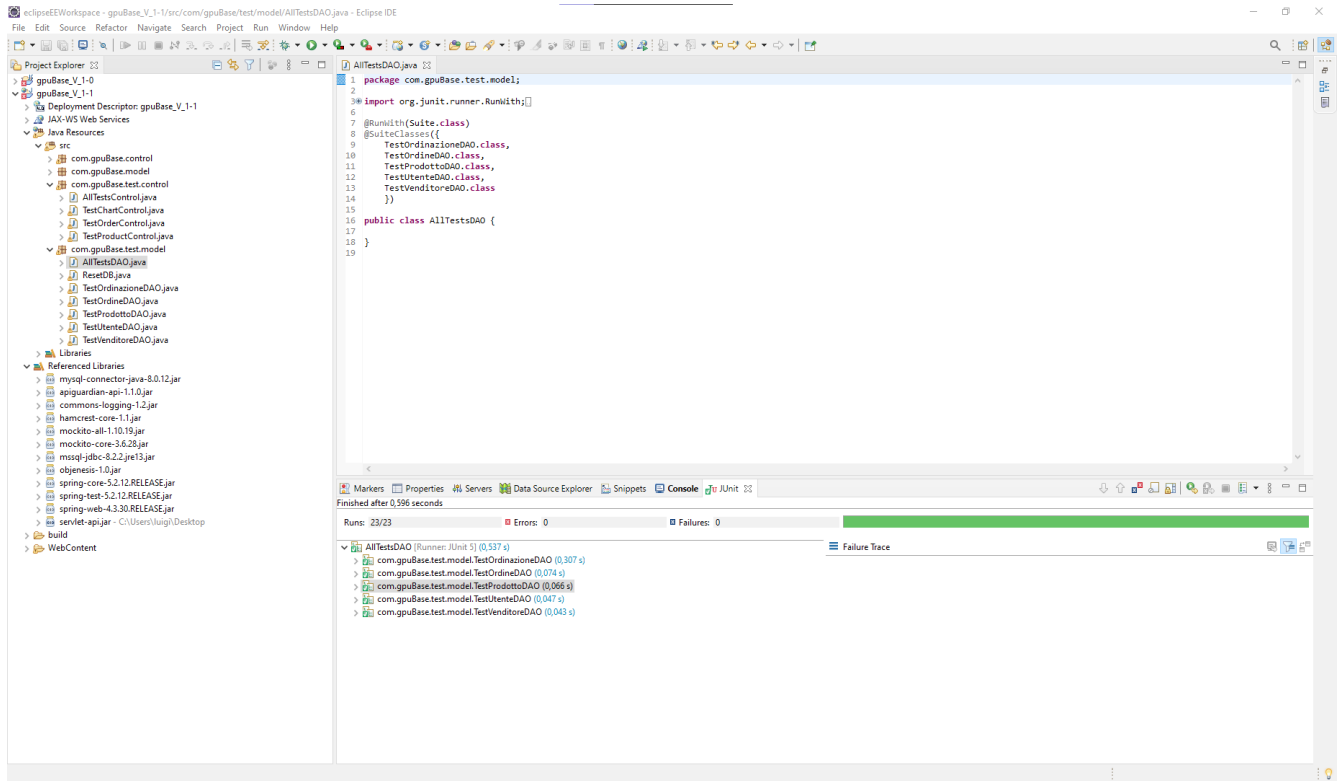
```
1 package com.gpuBase.test.control;
2
3 import static org.junit.jupiter.api.Assertions.*;
4
5 import java.io.IOException;
6 import java.util.ArrayList;
7
8 import javax.servlet.ServletException;
9
10 import org.junit.jupiter.api.AfterEach;
11 import org.junit.jupiter.api.BeforeEach;
12 import org.junit.jupiter.api.Test;
13 import org.mockito.InjectMocks;
14 import org.mockito.Mock;
15 import org.mockito.Mockito;
16 import org.mockito.MockitoAnnotations;
17 import org.springframework.mock.web.MockHttpServletRequest;
18 import org.springframework.mock.web.MockHttpServletResponse;
19
20 import com.gpuBase.control.ChartControl;
21 import com.gpuBase.control.OrderControl;
22 import com.gpuBase.model.OrderBean;
23 import com.gpuBase.model.OrderBeanDAO;
24 import com.gpuBase.model.ProdottoBean;
25
26 import junit.framework.TestCase;
27
28 public class TestOrderControl extends TestCase {
29
30     public TestOrderControl() {
31         super();
32     }
33     // TODO Auto-generated constructor stub
34 }
35
36
```

JUnit Results:

- TestOrderControl (Runner: JUnit 5) (0.299 s)
  - test1 (0.018 s)
  - test2 (0.018 s)
- TestOrderControl (Runner: JUnit 5) (0.012 s)
  - test1 (0.007 s)
  - test2 (0.005 s)

## 4.3 – TestSuite

### AllTestsDAO



### AllTestsControl

