

Exercises

Design Patterns: Observer

Java SE and Java EE patterns and best practices

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0 Prerequisites, assumptions and notes

- Have Maven 2 installed in your computer
- Have Eclipse installed in your computer (Recommended: Indigo Version)
- I'm assuming you're running the exercises in Ubuntu
- It's recommended that you place all Design Pattern exercises under a common directory. For example:
 \${user.home}/javatraining/designpatterns
During the exercises I will refer this directory as
 \${designpatterns.exercises.folder}
1. In every exercise I will refer the directory where you are working as
 \${project.dir}.

1 Quick Start Exercise

You will put your hands on a small program and apply the Adapter Design Pattern.

1.1 Checkout code and create eclipse project

In this step you will checkout the code to \${project.dir}.

Complete the following tasks.↓

1. Go to the \${project.dir} directory

```
cd ${project.dir}
```

2. Checkout the code from code.google.com

```
svn checkout  
http://javatrainings.googlecode.com/svn/designpatterns/trunk/observer
```

3. Enter the created directory and run the tests to check that everything is ok.

```
mvn test
```

4. Enter the created folder and generate the eclipse project

```
mvn eclipse:eclipse
```

5. Import project into eclipse

✓ *you're done! You have now the project ready to refactor.*

1.2 Implement Observer pattern

Complete the following tasks. ↓

1. Open the project observer with eclipse
2. Analyze package
eu.jpereira.trainings.designpatterns.behavioral.observer.observers
3. Open test class ApplianceEventObservableTest and run the tests
4. Fix the tests:
 - a. Open EventMapper and extend it from the interface ApplianceEventObservable
 - b. Open AbstractEventMapper and implement the methods from interface ApplianceEventObservable
 - c. Uncomment the commented code in ApplianceEventObservableTest
5. Run the tests

✓ *You're done.*