

Exercises

Design Patterns: Iterator

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://javatraining.googlecode.com/svn/designpatterns/trunk/iterator
```

3. Enter the created directory and run the tests to check that everything is ok. (Tests failing mean that you have to fix them)

```
mvn test
```

4. Enter the created folder and generate the eclipse project

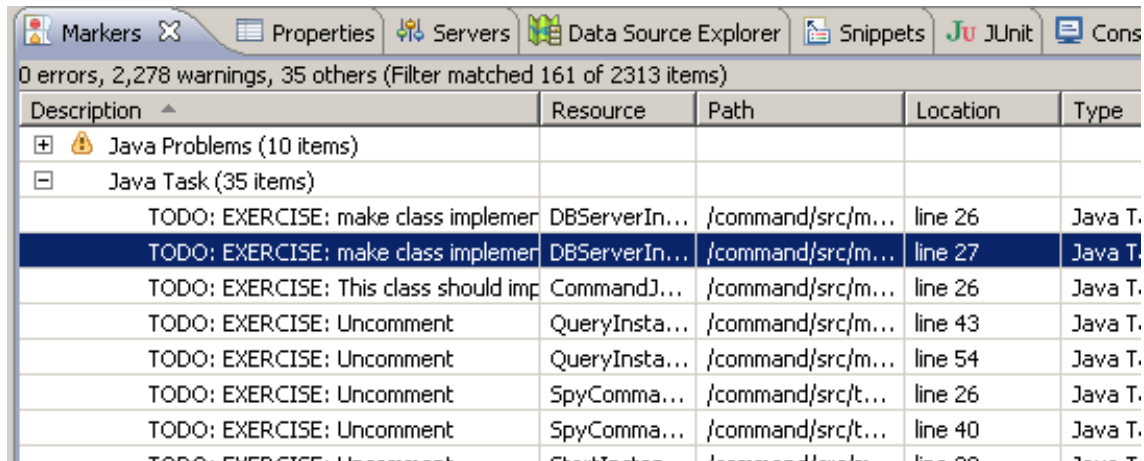
```
mvn eclipse:eclipse
```

5. Import project into eclipse

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

1.2 Implement the Iterator Design Pattern Model

TIP: Use Eclipse Markers view to find the TODOs to complete.



Description	Resource	Path	Location	Type
Java Problems (10 items)				
Java Task (35 items)				
TODO: EXERCISE: make class implemen	DBServerIn...	/command/src/m...	line 26	Java T.
TODO: EXERCISE: make class implemen	DBServerIn...	/command/src/m...	line 27	Java T.
TODO: EXERCISE: This class should imp	CommandJ...	/command/src/m...	line 26	Java T.
TODO: EXERCISE: Uncomment	QueryInsta...	/command/src/m...	line 43	Java T.
TODO: EXERCISE: Uncomment	QueryInsta...	/command/src/m...	line 54	Java T.
TODO: EXERCISE: Uncomment	SpyComma...	/command/src/t...	line 26	Java T.
TODO: EXERCISE: Uncomment	SpyComma...	/command/src/t...	line 40	Java T.
TODO: EXERCISE: Uncomment	CheckTeste...	/command/src/t...	line 26	Java T.

Complete the following tasks. ↓

1. Open project **iterator**
2. Open class `CommandJobIteratorTest` (Use CTRL+SHIFT+T)
3. Find and follow the TODO:
4. Run tests to see if your changes are ok

✓ *You're done.*