

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://javatrainings.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	CharIterat...	/command/src/t...	line 29	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.