Design Patterns

1. Observer: Observer is used to update several other classes that have a one to many
   a. Usage: This was used to update all the employees of there change in pay. Since we have a 1 to many situation updating everyone seemed too wasteful
2. Abstract Factory: An abstract factory creates factories of a similar type that can be used to create similar but different types.
   a. Usage: Was used to create the factories needed for each manufacturer for ease of use
3. Decorator: Is a wrapper to another class to add more functionality
   a. Usage: I used it to create the model of the car while the car itself was a different class
4. Strategy: Strategy is used when specific options of a class are needed.
   a. Usage: It was used for each pay strategy for each class.

How to run main: gradle run will run the main

Spotbugs:
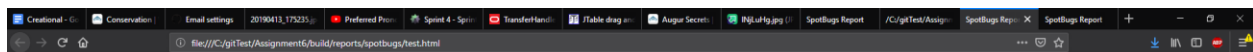
SpotBugs Report

Project Information

Project:

SpotBugs version: 3.1.1

Code analyzed:

- C:\gitTest\Assignment6\build\classes\java\test\test\TestAbstractFactory.class
- C:\gitTest\Assignment6\build\classes\java\test\test\TestCarDecorator.class
- C:\gitTest\Assignment6\build\classes\java\test\test\TestManufacter.class
- C:\gitTest\Assignment6\build\classes\java\test\test\TestStrategyObserver.class

Metrics

195 lines of code analyzed, in 4 classes, in 1 packages.

Metric	Total	Density*
High Priority Warnings		0.00
Medium Priority Warnings		0.00
Total Warnings	**0**	**0.00**

(* Defects per Thousand lines of non-commenting source statements)

Contents

- Details

Summary

Warning Type	Number
Total	0

Warnings

Click on a warning row to see full context information.

Details

CheckStyles

CheckStyle Audit

Designed for use with CheckStyle and Ant.

Summary

Files	Errors
26	0

Files

Name	Errors
C:\gitTest\Assignment6\src\Main.java	0
C:\gitTest\Assignment6\src\cardecorator\Model.java	0
C:\gitTest\Assignment6\src\factoryabstract\Car.java	0
C:\gitTest\Assignment6\src\factoryabstract\CarType.java	0
C:\gitTest\Assignment6\src\factoryabstract\Factory.java	0
C:\gitTest\Assignment6\src\factoryabstract\FactoryMaker.java	0
C:\gitTest\Assignment6\src\factoryabstract\HybridCar.java	0
C:\gitTest\Assignment6\src\factoryabstract\HybridFactory.java	0
C:\gitTest\Assignment6\src\factoryabstract\SportCar.java	0
C:\gitTest\Assignment6\src\factoryabstract\SportFactory.java	0
C:\gitTest\Assignment6\src\factoryabstract\TruckCar.java	0
C:\gitTest\Assignment6\src\factoryabstract\TruckFactory.java	0
C:\gitTest\Assignment6\src\manufacturer\Manufacturer.java	0
C:\gitTest\Assignment6\src\observer\EmployeeObserver.java	0
C:\gitTest\Assignment6\src\observer\Observer.java	0
C:\gitTest\Assignment6\src\strategy\BadPaying.java	0
C:\gitTest\Assignment6\src\strategy\Employee.java	0
C:\gitTest\Assignment6\src\strategy\EmployeePayStrat.java	0
C:\gitTest\Assignment6\src\strategy\GoodPaying.java	0
C:\gitTest\Assignment6\src\strategy\HorriblePaying.java	0
C:\gitTest\Assignment6\src\strategy\OkayPaying.java	0
C:\gitTest\Assignment6\src\strategy\WellPaying.java	0
C:\gitTest\Assignment6\src\test\TestAbstractFactory.java	0
C:\gitTest\Assignment6\src\test\TestCarDecorator.java	0
C:\gitTest\Assignment6\src\test\TestManufacter.java	0
C:\gitTest\Assignment6\src\test\TestStrategyObserver.java	0

File C:\gitTest\Assignment6\src\Main.java

Error Description	Line

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File C:\gitTest\Assignment6\src\cardecorator\Model.java

Error Description	Line

CheckStyle Audit

Designed for use with CheckStyle and Ant.

Summary	
Files	**Errors**
4	0

Files	
Name	**Errors**
C:\gitTest\Assignment6\test\TestAbstractFactory.java	0
C:\gitTest\Assignment6\test\TestCarDecorator.java	0
C:\gitTest\Assignment6\test\TestManufacter.java	0
C:\gitTest\Assignment6\test\TestStrategyObserver.java	0

File C:\gitTest\Assignment6\test\TestAbstractFactory.java

Error Description	Line

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File C:\gitTest\Assignment6\test\TestCarDecorator.java

Error Description	Line

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File C:\gitTest\Assignment6\test\TestManufacter.java

Error Description	Line

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File C:\gitTest\Assignment6\test\TestStrategyObserver.java

Error Description	Line

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