COSC 603

Software Maintenance & Testing

Spring 2016

**Project #2 – Refactoring and Design Smells**

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**Task 8 – Refactoring: Extracting an Interface.**

***For this task, briefly describe your experience with this task and for which design smells extracting an interface could help make the code more maintainable and why. In your description, be sure to include a description of which methods you extracted into the interface and what new files were created in this operation.***

Answer:

Following the steps describe in the Task 8 was straight forward. It was challenging to select the methods to be extracted into the interface. The following methods were extracted:

getName

getTheOwner

getPrice

setTheOwner

isAvailable

setAvailable

The IOwnable.java file was created.

Extracting an interface can help with the following design smells:

* Duplicated code -when there is a need to separate out the commonalities into a subpart.
* When same code exists in two unrelated classes and probably they need to be related or the code.
* The class is too large with many different subparts and methods.
* Inappropriate intimacy that could lead to data coupling and easy to break code.