

Code Smell 1

Class: Dimensions.java

Method: Entire class

Code Smell: Data Class

Why is it a problem:

This class only holds data and it is only used for the Item class. The only method that adds functionality is *getDimensions* and it is not even used. Moreover it does not even solve the Data Clumps code smell when setting the Dimensions for an item. This class only adds complexity to the program design UML.

Proposed solution:

Remove the class. Add the three attributes *length*, *width* and *height* directly at the Item class.

Code Smell 2

Class: AddItemActivity.java & EditItemActivity.java

Method: onCreate

Code Smell: Duplicate Code

Why is it a problem:

Both classes share some of the same attributes:

```
private EditText title;  
private EditText maker;  
private EditText description;  
private EditText length;  
private EditText width;  
private EditText height;
```

And all of them are set the same way on the *onCreate* method:

```
title = (EditText) findViewById(R.id.title);  
maker = (EditText) findViewById(R.id.maker);  
description = (EditText) findViewById(R.id.description);  
length = (EditText) findViewById(R.id.length);  
width = (EditText) findViewById(R.id.width);  
height = (EditText) findViewById(R.id.height);
```

If any of these attributes are removed or a new one is added (e.g. *subtitle*), we would have to make the same changes in both classes.

Proposed solution:

Create a parent class *ItemActivity.java* that encapsulates these attributes and sets them on the *onCreate* method. Then, both other activity classes would inherit this parent class and call its *onCreate*.