Object Oriented

University of Alberta
Emanuel Leite

Code Smell 1

In the classes ContactList and ItemList we can use the methods saveContacts and saveItems which perform the same actions, this is known as duplicated code.

Both methods have similar implementations but in different objects so we could create a storage handling to calls this method and avoid this issue

```
public void saveContacts(Context context){
    try {
        FileOutputStream fos = context.openFileOutput(FILENAME, mode: 0);
        OutputStreamWriter osw = new OutputStreamWriter(fos);
        Gson gson = new Gson();
        gson.toJson(contacts, osw);
        osw.flush();
        fos.close();
    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

```
public void saveItems(Context context) {
    try {
        FileOutputStream fos = context.openFileOutput(FILENAME, mode: 0);
        OutputStreamWriter osw = new OutputStreamWriter(fos);
        Gson gson = new Gson();
        gson.toJson(Items, osw);
        osw.flush();
        fos.close();
    } catch (FileNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

Code Smell 2

In the class EditContactActivity we can find a comment of 4 lines. This code smell is known as Excessive use of Comments. We can see that this comment is referring to 2 different lines of the complete code so we could improve the comprehension of this class if the comments are single lined and above the specific line that is referring.

```
/**
 * Editing a pre-existing contact consists of deleting the old contact and adding a new contact with the old
 * contact's id.
 * Note: You will not be able contacts which are "active" borrowers
 */
```