Capstone assignment 2.3

tags: OOP Coursera

Submission

Code Smell 1: Duplicated code

```
public void loadContacts(Context context) {

try {
    imputstream fis = context.openFileInput(FILENAME);
    Imputstreammedar is r = new Imputstreammedure(fis);
    is close();
    public void loadItems(Context context) {

try {
        if imputstream fis = context.openFileInput(FILENAME);
        imputstreammedar is r = new Imputstreammedure(fis);
        contacts a gson.fromJson(isr, listType); // temporary
        is.close();
    } catch (fileNotFoundException e) {
        contacts = new Arrow(istContacts)();
    } catch (folkception e) {
        contacts = new Arrow(istContacts)();
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        items = new Arrow(istContext) {
        items = new Arrow(istContext)();
    } catch (folkception e) {
        ite
```

- Location:
- 1. loadContacts(Context context) in class ContactList and loadItems(Context context) in class ItemList
- 2. saveContacts(Context context) in class ContactList and saveItems(Context context) in class ItemList
- Description:
 - Despite the difference of the name of the function and the class they belong, these two pairs of functions have exactly the same codes. This means that when changes made to any of these functions, the changes will have to be done two times which is error prone.
- Solution: Create a class that handles storage by taking object type and name as its members. It handles reading and storing data.

Code Smell 2: Use too many Comments

Class EditContactActivity::saveContact(View view)

Class EditItemActivity::toggleSwitch(View view)

```
public void toggleSwitch(View view){
    if (status.isChecked()) {
       borrower spinner.setVisibility(View.GONE);
       borrower tv.setVisibility(View.GONE);
        item controller.setBorrower(null);
        item_controller.setStatus("Available");
    } else {
        if (contact_list.getSize()==0){
            invisible.setEnabled(false);
            invisible.setVisibility(View.VISIBLE);
            invisible.requestFocus();
            invisible.setError("No contacts available! Must add borrower to contacts.");
            status.setChecked(true); // Set switch to available
        } else {
            borrower_spinner.setVisibility(View.VISIBLE);
            borrower_tv.setVisibility(View.VISIBLE);
        }
    }
```

- Location:
- 1. saveContact(View view) in class EditContactActivity
- 2. toggleSwitch(View view) in class EditItemActivity

• Description:

In these two functions, comments are spread before and over the whole functions. By percisly arrange the name of functions, classes and variables and by using enum and reference nicely, code can be read easily without redundant explaination made by comments. Excessive use of comments can cause extra work if the code changes. Also, outdated comments often occurs and misleads developers.

• Solution:

Make variable name, method name self-explanatory. Use enumerators to define alias.