TO: *David G. Green, EE-433 Professor*

FROM: Team 2: *Jeremy Box, Ronald Fairley, Lee Adlaf, Kuni Scissum*

DATE: December *12, 2013*

SUBJECT: *P4 Submission Report – Team 2: Collection$*

Summary

The Collection$ project is an Android-based application for collectors and hobbyists that want to create and maintain multiple collections. This application will have three main features: 1) construction/maintenance of personal collections, 2) object identification, and 3) collection based networking with other users. The Collection$ application will be thoroughly planned and documented. Milestones and tasks are set as described by this report in order to facilitate designing and enhance productivity.

# Project Status

The project has not reached the release stage and more development is necessary. However, several important milestones and much functionality have been attained:

* An extensive design process was gone through to create much detailed documentation regarding project specifications, test cases, UML, etc (This information is necessary should the project be further completed).
* Creating an Android application that is capable of running on any Android-supported device. The application can be navigated through several screens with proper information displayed. Our original ‘prototype GUI’ was used to create the screens and while there are changes, the basic GUI setup matches what we originally wanted.
* Developed java code to handle, in an object-oriented fashion, the ‘back-end’ of the Android application. Linking was written that can be used to link the Android side of the application (GUI), with the server side (database).
* A server location (using Tomcat) and servlet utilizing a database has been created and successfully communicated with an Android device.

Major tasks that still need to be completed are listed in the Task List below (Table 1). A partial list of technical debt and code ‘to be done’ (TBD) are also found below.

# Task Lists and Milestones

Each of the tasks in Table 1 was updated to reflect current progress.

Table 1. Task list and guidelines to complete project.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial Number** | **Description** | **Completion Date** | **Assigned to:** | **Priority** | **Status** |
| TA-01 | Document Group Meetings | Continuous | All | Important | Ongoing |
| TA-02 | Maintain Status Report for Project | Continuous | All | Nominal | Ongoing |
| TA-03  *(complete)* | Submit P3 Development Plan and Status Report | 10/15/2013 | All | Important | Complete |
| TA-04  *(complete)* | Revise Vision and Scope Document | 10/22/2013 | Jeremy | Important | Complete |
| TA-05  *(complete)* | Revise Inception Deck | 10/22/2013 | Lee | Important | Complete |
| TA-06  *(complete)* | P3 Progress Report 1 | 10/22/2013 | Ron | Important | Complete |
| TA-07  *(complete)* | Design Architecture | 10/31/2013 | All | Critical | Complete |
| TA-08  *(complete)* | Revise SRS Document for release 1 | 10/31/2013 | Kuni | Critical | Complete |
| TA-09  *(complete)* | Acceptance of Vision and Scope | 10/31/2013 | All | Important | Complete |
| TA-10  *(complete)* | Acceptance of Inception Deck | 10/31/2013 | All | Important | Complete |
| TA-11  *(complete)* | Development Plan for P4 | 10/31/2013 | All | Important | Complete |
| TA-12  *(complete)* | Research Android OS | Continuous | Kuni | Important | Ongoing |
| TA-13  *(complete)* | Research MySQL | Continuous | Lee | Important | Ongoing |
| TA-14  *(complete)* | Research Amazon Turk | Continuous | Ron | Important | Ongoing |
| TA-15  *(complete)* | Research TomCat | Continuous | Jeremy | Important | Ongoing |
| TA-16  *(complete)* | Create Draft Presentation | 10/29/2013 | All | Critical | Complete |
| TA-17  *(complete)* | Update UML Documentation | 11/11/2013 | Kuni & Jeremy | Important | Complete |
| TA-18  *(complete)* | Update Lucid Chart GUI | 11/11/2013 | Lee | Important | Complete |
| TA-19  *(complete)* | Install, explore the Android Development Toolkit (ADT) | 11/02/2013 | All | Important | Complete |
| TA-20  *(complete)* | Prepare Progress Report 1 | 11/12/2013 | Lee | Critical | Complete |
| TA-21  *(complete)* | Create Basic Test GUI (format, etc) | 11/18/2013 | Lee & Jeremy | Important | Complete |
| TA-22 | Write / develop tests for code (android & server side) | 11/20/2013 | All | Critical | Ongoing |
| TA-23 | Create Pseudo code for Classes and Methods Testing | 11/18/2013 | Kuni & Jeremy | Important | Ongoing |
| TA-24  *(complete)* | Prepare Progress Report 2 | 11/21/2013 | Ron | Critical | Complete |
| TA-25  *(complete)* | Set up Tomcat and successfully test a database | 11/26/2013 | Ron & Kuni | Important | Complete |
| TA-26  *(complete)* | Add Classes / Methods code to GUI Framework | 11/26/2013 | Lee & Jeremy | Important | Complete |
| TA-27 | Establish communication between server / android app | 11/28/2013 | Ron & Kuni | Important | Ongoing |
| TA-28  *(complete)* | Basic Program functionality (login, view pages, view static information from arraylist) | 12/01/2013 | All | Critical | Complete |
| TA-29  *(complete)* | Prepare Progress Report 3 | 12/03/2013 | Jeremy | Critical | Complete |
| TA-30 | More Program Functionality (edit fields, add photos, add users, update database) | 12/06/2013 | All | Important | Ongoing |
| TA-31 | Advanced Functionality (links to web, networking, research) | 12/8/2013 | All | Important | Ongoing |
| TA-32  *(complete)* | Final Drafts of all Documents | 12/09/2013 | Kuni | Important | Complete |
| TA-33  *(complete)* | Prepare Final Package | 12/10/2013 | Lee & Kuni | Critical | Complete |
| TA-34  *(complete)* | Prepare Final Presentation | 12/10/2013 | Ron & Jeremy | Critical | Complete |

Table 2. Project Milestones.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone**  **Number** | **Milestone** | **Completion Date** | **Assigned to:** | **Priority** |
| **M1**  *(complete)* | Inception Deck presentation. | 10/8/2013 | Group | Nominal |
| **M2**  *(complete)* | P3 Development Plan and Status Report | 10/15/2013 | Group | Nominal |
| **M3**  *(complete)* | P3 Progress Report 1 | 10/22/2013 | Group | Important |
| **M4**  *(complete)* | P3 Submission | 10/31/2013 | Kuni | Important |
| **M5**  *(complete)* | P3 Presentation | 10/31/2013 | Group | Critical |
| **M6**  *(complete)* | P4 Status Report 1 | 11/12/2013 | Group | Important |
| **M7**  *(complete)* | P4 Status Report 2 | 11/21/2013 | Group | Important |
| **M8**  *(complete)* | P4 Status Report 3 | 12/03/2013 | Group | Important |
| **M9**  *(complete)* | P4 Submission | 12/12/2013 | Group | Critical |

# Technical Debt

This is a list of technical debt from code written within the Android side of the Collection$ application:

* Tabs for switching screens
* Thumbnails on collection / item list
* Images on item details screen
* Dynamic collection information - get from server / database
* Adding new items / collections
* Editing / Deleting items / collections
* Networking functionality
* Research functionality

# To Be Done (TBD)

This is a list of specific TBD from code written within the Android side of the Collection$ application (marked in the code as TBD):

*HomeScreen.java*

* Fix Add Item Link (build add item)
* Fix Networking Link (build networking)
* Add code to 'really' log off the user

*Login.java*

* Check to see if the user / password is in the database
* check validity of user input

*CreateNewUser.java*

* Check database for existing user
* Check validity of inputs
* Email client

*viewCollections.java*

* Populate with 'real' database information

*ViewYourCollectionList.java*

* Should poll / pull users collection information from the database

\* Number of Items in a collection?

*ViewOtherCollectionList.java*

* Should poll / pull users collection information from the database
* Add other collections?
* Create arraylist of collections shared with current user

*Item.java*

* Test the editable variable by testing the set methods with editable==True and editable == False

*Collection.java*

* Edit code to match current UML Class diagram

*ViewItem.java*

* Add Research Button
* Add Remove Functionality
* Add Thumbnails
* Add Edit Functionality

*AddItem.java*

* Write code / design screen to do add item