GV Marketplace Application

Alex Fountain, Jarred Parr, Ron Rounsifer, Sean Greene

CIS 350-01 Fall 2017

Description:

In this project we plan to create an IOS, and Desktop application. This application will take the place of the multiple Facebook pages that have been created for students to sell books, get a tutor, or find someone to lease from. The application will be called GV Marketplace. The desktop application will be written in java and fxml. The fxml will be created through JavaFX. The IOS application will be created through Javascript. We will also be building our own API for the application. Most of the testing will come from the second half of the project as the user interface design is the key focus for the first half of the project.

Release 1 Supports:

The desktop application user interface is complete.

The IOS/Android application is fully functioning. The user can view posts, create posts, and create a profile.

Outlook:

In release two we will add full functionality to the desktop application. We will also add messaging capabilities to the IOS/Android application. Some other small features will also be added like location services.

Repository:

<https://github.com/jparr721/GvMarketplace>

Git Log:

│commit 3328e8b65aae2fac323720bb7fb71f692d9aaaff

│Author: Jarred Parr <jparr721@gmail.com>

(env) ✝ Python Projects/plur/djank │commit dbb1dfbce85e08b02d454e500612d32ecbf6e986

│Author: Ronald Rounsifer <ronrounsifer@me.com>

Date: Mon Oct 16 12:18:18 2017 -0400

│

│ Added more comments to the following: inbox.js, login.js, app.js, ./actions/inde

│x.js, and ./reducers/index.js

│

│commit e89d85fb43d48f6411f0639b7c0cf4f493901689

│Merge: 92c0309 5094b74

│Author: Ronald Rounsifer <ronrounsifer@me.com>

│Date: Mon Oct 16 08:44:32 2017 -0400

│

Added more comments to the four pages of the application.

│

│commit 92c030942f439d7535b2c37b4e65f3fb26b6c798

│Author: Ronald Rounsifer <ronrounsifer@me.com>

│Date: Mon Oct 16 08:41:56 2017 -0400

│

More comments added to the login, browse, inbox, and settings page of the applic

│ation.

│

│commit 5094b746edbbdb8565b956ab3560f32bcbeec920

│Author: greenese <31932398+greenese@users.noreply.github.com>

│Date: Mon Oct 16 01:36:56 2017 -0400

│

│ Added a controller class for Marketplace.fxml and some testing for the controllers

│commit ae9c5dbe3d949c51408d3e6c7e46dbb854ad0ef2

│Author: Ronald Rounsifer <ronrounsifer@me.com>

│Date: Mon Oct 16 00:25:52 2017 -0400

│

│ More comments added

│

│commit f439e4df16682c10794125465b267ef2a2c6374e

│Author: Ronald Rounsifer <ronrounsifer@me.com>

│Date: Sun Oct 15 21:44:21 2017 -0400

│

│ Started comments for classes/functions

│

│commit 7cde913b2bd0d19e97191a1cbc3eea95f4076303

│Author: Jarred Parr <jparr721@gmail.com>

│Date: Sun Oct 15 19:54:48 2017 -0400

│

│ So many comments

│

│commit 14e0bfc24899c62da9493aa1d609d119f609522b

│Author: Ronald Rounsifer <ronrounsifer@me.com>

│Date: Sun Oct 15 10:20:46 2017 -0400

│

│ Messed with styling on settings page mostly

│

│commit 9469162d8ff0b988069b31662a82e657c23fafd5

│Author: Ronald Rounsifer <ronrounsifer@me.com>

│Date: Sun Oct 15 09:54:31 2017 -0400

│

│ Updated browse page

│

│commit 0b4e769872b4d2065c3ecb59679b00dfc971cd3f

│Author: Ronald Rounsifer <ronrounsifer@me.com>

│Date: Sun Oct 15 09:41:22 2017 -0400

│

│ Updating UI for pages

│

│commit ee2e0817457ad2a1f74b438c19649f32a9985c93

│Author: Jarred Parr <jparr721@gmail.com>

│Date: Sat Oct 14 15:04:12 2017 -0400

│

│ Create .gitignore │

│commit 1813e6a7675d5bb56a036ef05970216057224ea8

│Author: Jarred Parr <jparr721@gmail.com>

│Date: Sat Oct 14 15:02:59 2017 -0400

│

│ Update .gitignore

│

│commit 0455b1644e7500f4e7dd91f7a4f255e106691ff5

│Merge: 3eaf45e 64fd199

│Author: Jarred Parr <jparr721@gmail.com>

│Date: Sat Oct 14 14:19:35 2017 -0400

│

│ Merge pull request #13 from jparr721/small\_changes

│

│ Added buttons to settings / Changed layout for settings

│

│commit 64fd1993760a38b01fbb22d5827e1d25ee52085e

│Merge: 7aef531 3eaf45e

commit 3d660fcb2f015b7c17eb65f1e2390e45ec6bc03b

Author: Alex <fountaia@mail.gvsu.edu>

Date: Mon Sep 25 12:53:55 2017 -0400

Started developing desktop application.

commit 7dcd3ba9fce732f203934ab54cc30235e0889d6d

Author: Alex <fountaia@mail.gvsu.edu>

Date: Mon Sep 25 12:47:33 2017 -0400

Started developing desktop application.

commit 4b8b207d4c7754e7cebdd656940d998f3a516575

Author: Jarred Parr [jparr721@gmail.com](mailto:jparr721@gmail.com)

Date: Tue Sep 19 20:39:08 2017 -0400

React Native Tests



React Native ESDoc

# Global

### Methods

#### Button()

Creates a reusable button

#### Card()

Creates a reusable card

#### CardSection()

Creates a reusable card section to be housed by the parent card

#### Input(label, value, onChangeText, placeholder, secureTextEntry)

Reusable input

##### Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| label | state | Label prop |
| value | state | Value prop |
| onChangeText | state | Change text listener prop |
| placeholder | state | Placeholder text prop |
| secureTextEntry | state | Secure Text entry prop |

#### PageView()

Page View component to enfore styling

##### Parameters:

|  |  |
| --- | --- |
| **Type** | **Description** |
| props | General Props object |

**SearchBar(children, value, onChangeText, placeholder)**

Page View component to enfore styling

##### Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| children | props | General Props object |
| value | props | General Props object |
| onChangeText | props | General Props object |
| placeholder | props | General Props object |

#### SmallCard(props)

Small Card component for reuse

##### Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| props | props | General Props object |

Source:

#### SmallHeader(props)

Small header for sub text

##### Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| props | props | General Props object |

#### Spinner(props)

Spinner for async loading

##### Parameters:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| props | props | General Props object |

## Browse()

The browse page of the application.

## Constructor

#### new Browse()

Source:

### Members

#### onCollectionUpdate

Updates the postings that are on the browse page by pushing them into the postings array.

Source:

### Methods

#### componentDidMount()

When the application officially launches, this will create a list of postings that will appear on the browse page.

#### componentWillUnmount()

Right before a component is unmonted and destroyed, this method resets the unsubscribe variable of the class. This kills the communication between the application and the hosting server containing the data, firebase.

#### render()

Contains the layout and displays the browse page of the application when called.

Source:

## Inbox()

The inbox page of the application

## Constructor

#### new Inbox()

### Methods

#### render()

Contains the layout and displays the entire inbox page.

## Login()

The login page of the application. Contains all the code for the user interface visuals along with event handlers for user login.

## Constructor

#### new Login()

### Methods

#### render()

Presents the layout and displays the entire login page.

#### renderButton()

Renders the spinning icon when the user attempts to login / register.

## Settings()

The settings page of the application. No functionality implemented for this page yet.

## Constructor

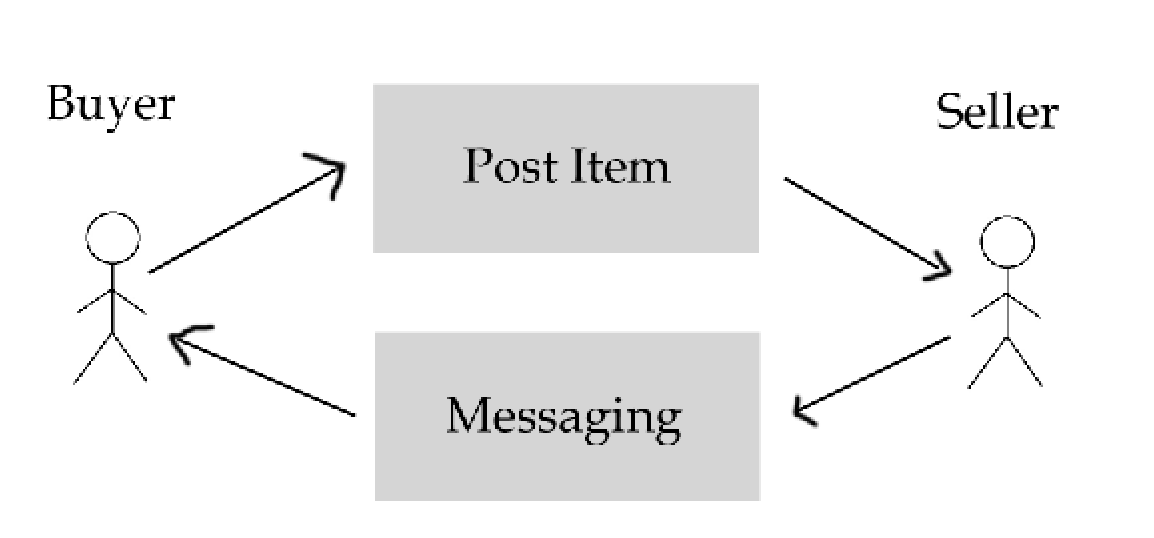
#### new Settings()

### Methods

#### render()

Contains the layout and displays the entire settings page when called.



**Use Case Diagram**

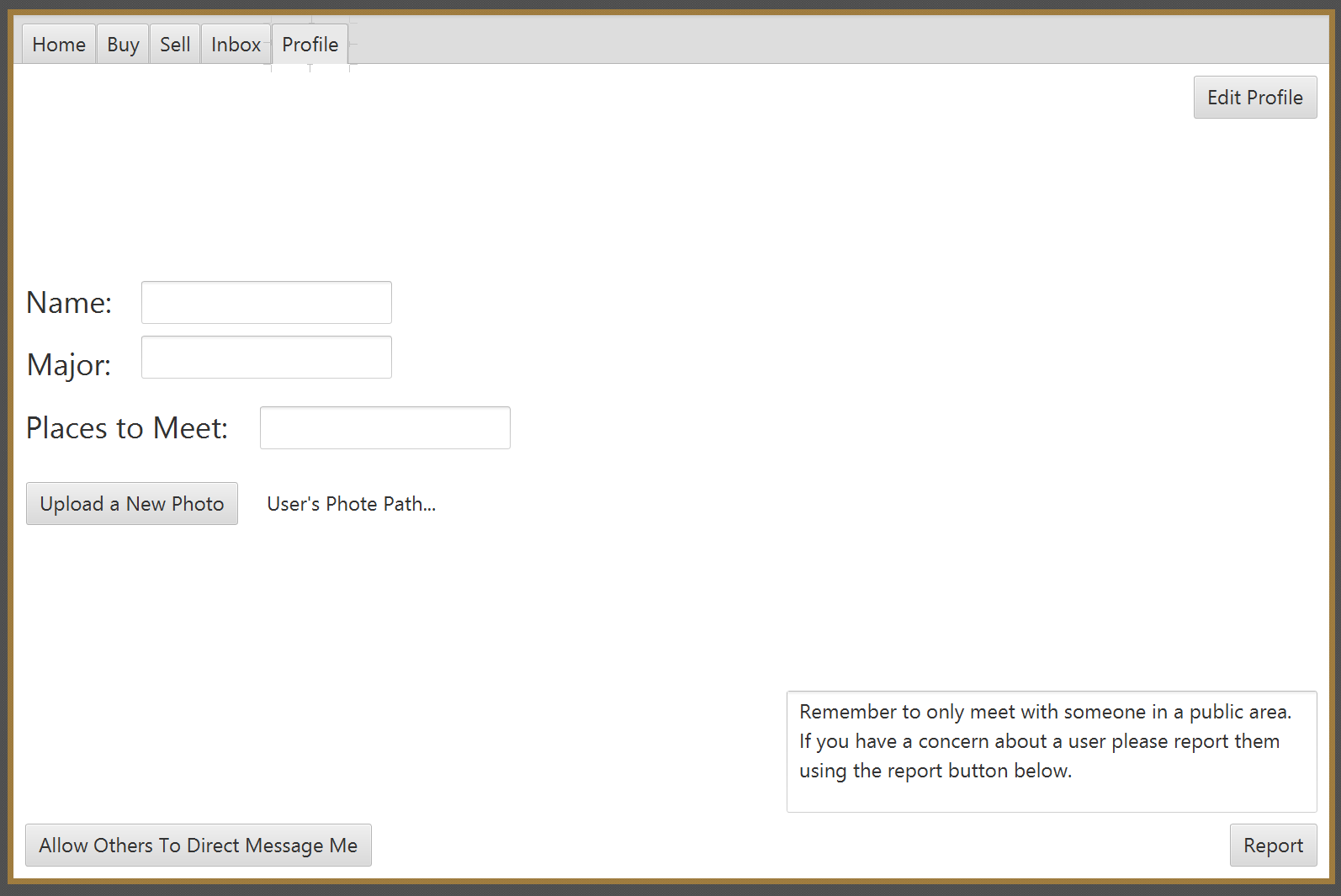
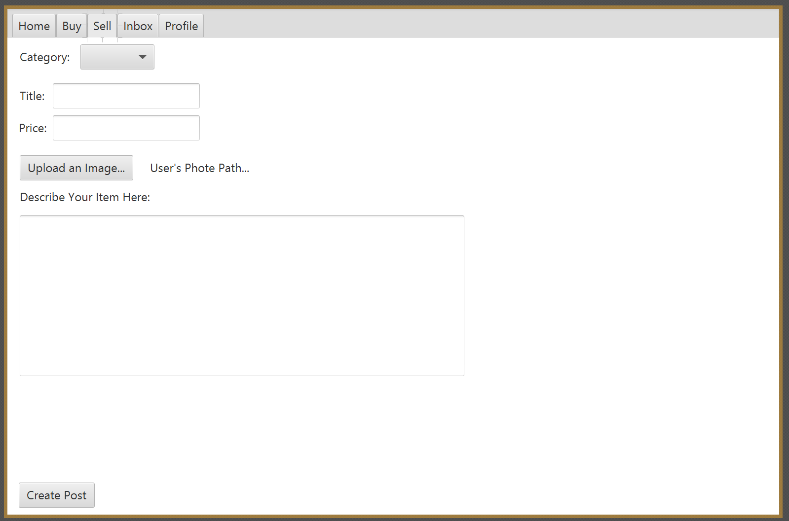
**Use Case Post**

|  |  |
| --- | --- |
| **Name** | Create Post |
| **ID** | UC1 |
| **Brief Description** | A post is created by a seller to sell an item or good and a buyer interacts with that post. |
| **Actors (primary and supporting/secondary)** | Seller – Primary  Buyer – Secondary |
| **Triggers** | User logs in |
| **Preconditions** | A user must have an account or create an account |
| **Primary Flow** | 1. User provides correct login data  2. Database approves login  3. User selects “Sell” page  4. User enters data about the item they want to sell  5. User selects “Create Post”  6. Database responds by adding the post to items for sale  7. User continues creating posts or looking for items to buy |
| **Secondary Flow** | 2a.1 User provides incorrect login data  3a.1 User gets five login attempts before being prompted to reset password  4a.1 User successfully logs in and continues with step 2  2b.1 Database does not respond  3b.1 Application tries to reconnect  4b.1 Database successfully reconnects and continues with step 2  2b.1 Database does not respond  3b.1 Application tries to reconnect  4b.1 Database fails to reconnect  5b.1 Error is shown to user saying that the application is currently down  6c.1 Database does not respond  7c.1 Application tries to reconnect  8c.1 Database fails to reconnect  9c.1 Error is shown to user saying that the application is currently down  6d.1 Database does not respond  7d.1 Application tries to reconnect  8d.1 Database successfully reconnects and continues with step 7  . |
| **Minimal Guarantees** | If all fails the application will display an error stating that the application is currently unavailable. On close of this error the application will close. |
| **Success Guarantees** | A post is created and other users can interact with the post. |

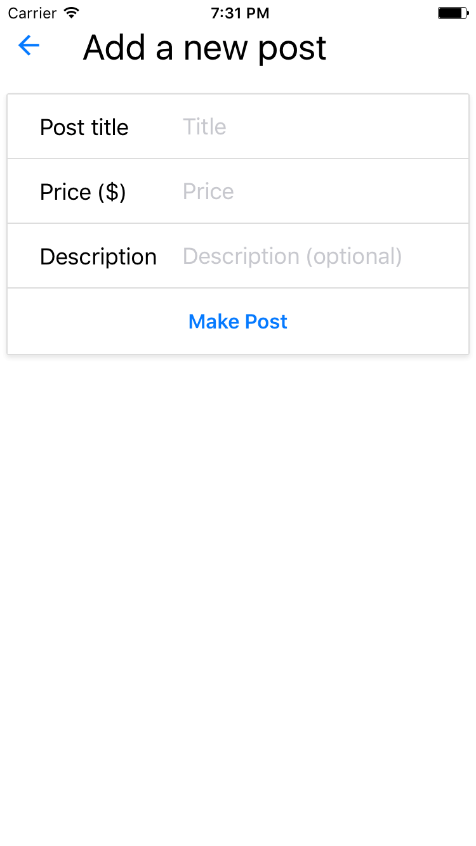
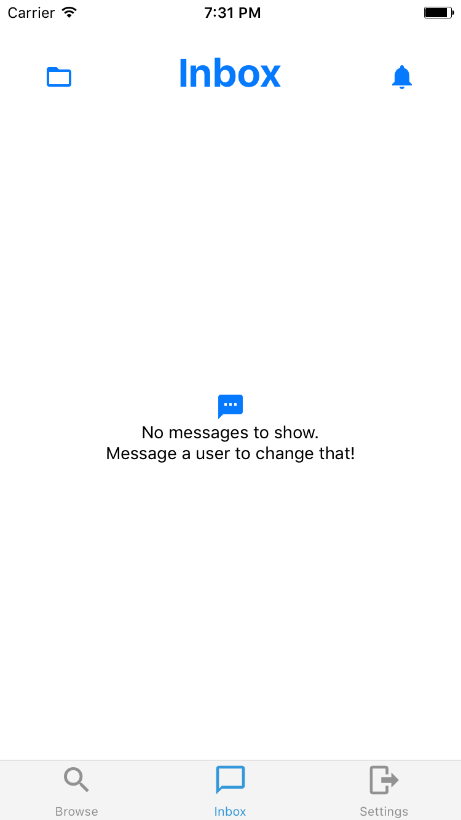
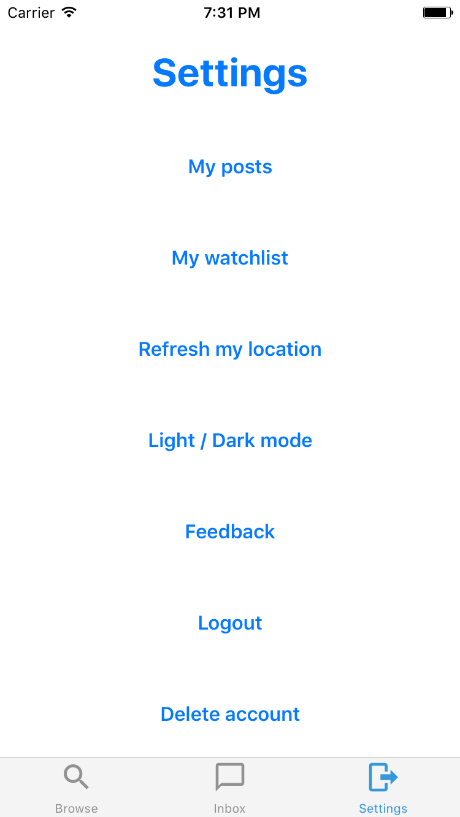
**Use Case Buy**

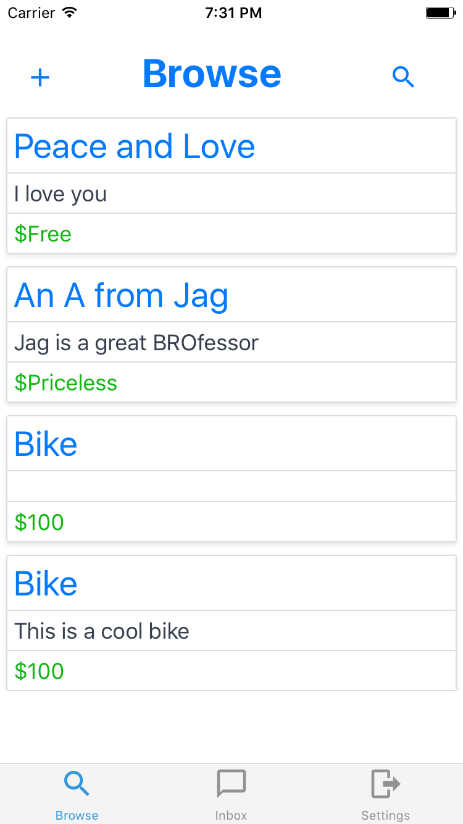
|  |  |
| --- | --- |
| **Name** | Buy Post |
| **ID** | UC2 |
| **Brief Description** | A post is created by a seller to sell an item or good and a buyer interacts with that post. |
| **Actors (primary and supporting/secondary)** | Seller – Secondary  Buyer – Primary |
| **Triggers** | User logs in |
| **Preconditions** | A user must have an account or create an account |
| **Primary Flow** | 1. User provides correct login data  2. Database approves login  3. User selects “Buy” page  4. User finds a post that they want to buy  5. User selects “Message seller”  6. Application creates message between buyer and seller  7. Buyer messages seller about an offer for the item and where to meet |
| **Secondary Flow** | 2a.1 User provides incorrect login data  3a.1 User gets five login attempts before being prompted to reset password  4a.1 User successfully logs in and continues with step 2  2b.1 Database does not respond  3b.1 Application tries to reconnect  4b.1 Database successfully reconnects and continues with step 2  2b.1 Database does not respond  3b.1 Application tries to reconnect  4b.1 Database fails to reconnect  5b.1 Error is shown to user saying that the application is currently down  6c.1 Database does not respond  7c.1 Application tries to reconnect  8c.1 Database fails to reconnect  9c.1 Error is shown to user saying that the application is currently down  6d.1 Database does not respond  7d.1 Application tries to reconnect  8d.1 Database successfully reconnects and continues with step 7  . |
| **Minimal Guarantees** | If all fails the application will display an error stating that the application is currently unavailable. On close of this error the application will close. |
| **Success Guarantees** | A message is sent to another user about the item they have for sale. |

Screenshots

Desktop:

Mobile App:





Desktop Testing:

Code Coverage



Reflections

Jarred:

My role was to design the back end of both applications. I was successful by first build and got the application to pull and post to the database as well as built the login functionality on the app for the first release. I’d like to set up a docker container to house the app for the net build so the team can have a consistent version of dependencies across releases. Overall this was a great first start, the team had some inconsistencies in the beginning but it looks like we’re figuring things out.

Ron:

My contribution to the project mainly consisted of documentation and front end design for the mobile application. Everything promised for the first build was incorporated while presenting the user with a simplistic design scheme in order to provide the user with an easy-to-use, no instructions-needed-application. I am going to continue modifying the design of the mobile application until I deem acceptable for release two, while incorporating the functionality of the design features. Also, I wish to see the mobile and desktop applications to have a similar look and feel to their UI’s, but that task may be too optimistic for our second release. All-in-all, it was a good first step for our developing applications and I see our work becoming more effective and efficient for this upcoming release.

Alex:

My role in the project was to develop the user interface of the desktop application. The plan was to then develop the majority of the backend of the application for the second release but looking back it would have been better to have also tried to include the basic backend stuff so that there was more of a deliverable. I am happy with how the user interface looks and I feel it will be very simple for the user to catch on to how to use it. Jarred and Ron did a fantastic job with the mobile app and I look forward to working with them for the second release to bring the applications even closer together in look and feel. I think that the group is beginning to hit our groove of accomplishing our goals and the second half of the project should go very smoothly.

Sean:

My job was to work with Alex on the desktop application. At the beginning of the semester I shied away from contributions due to a lack of understanding the material. With the help of YouTube tutorials, I have become an active member of the development team. I’ve made several additions to the layout of the interface as well as minor bug fixes and the entire controller set up for user interaction. Jarred and Ron got the android app up and running in record time and Alex has done a great job with the initial interface for GV Marketplace. The plan was to have a basic GUI that outlined the goals for a finished GV Marketplace Application in release one and a full feature application with a working database for release two. I am glad to see improved group communication as the semester progresses. I believe we’ll be ready for release two in no time.