4.1 Plan Introduction

This Software Development Plan provides the details of the planned development for the Sale Stalker which provides an iOS application to notify registered users when the price of their bookmarked items goes on sale.

The application will boot up with a login page where users can log into their accounts to access their wish list. The opening page will also have an option for new users to sign up and create an account. Once on the main menu, users will have the option to browse shops, view their wish list, or edit their account information. The user will also be able to edit their wish list to either add or remove items from it. This application will be a very useful tool for those looking to expand their closets without expanding their budget. It is for the patient shopper who is willing to wait for prices to drop.

Anticipated project milestone dates

* Week 2: Project Proposal Document
* Week 5: Requirements Specification First Draft
* Week 9: First Draft of Software Development Plan
* Week 11: Submit Revise Software Development Plan Document
* Week 13: Submit Revised Requirements Specification Document
* Week 14 - 16: Preliminary Demonstration Presentations/Posters
* Week 17: Final Report, Code, and Poster
* FINAL Project Presentation

4.1.1 Project Deliverables

* Project Proposal Document
  + Due Week 2
  + Brief document describing the developer’s initial ideas and designs for the proposed application
  + Started a dialogue with the instructor so that some brainstorming could occur in order to make the project more concrete.
* Requirements Specification First Draft
  + Due Week 5
  + Document detailing how the developer intends the application to function and perform as well as the components that will make it up.
* First Draft of Software Development Plan
  + Due Week 9
  + Initial draft of how the software development process will proceed. It includes a breakdown of the software team and their relative tasks as well as milestones and when they should be met. A rough schedule is also included to give an estimate of when the project goals will be met.
* Revise Software Development Plan Document
  + Due Week 11
  + Based off the feedback from the instructor, revisions will be made to the first draft of the SDP to reflect those notes.
* Revised Requirements Specification Document
  + Due Week 13
  + Based off the feedback from the instructor, revisions will be made to the first draft of the SDP to reflect those notes.
* Preliminary Demonstration Presentations/Posters
  + Due Week 14-16
  + Begin drafting and working on the poster detailing the project that will be presented at the end of the semester.
* Final Report, Code, and Poster
  + Due Week 17
  + The final report, project code, and poster will be revised to reflect any changes advised by the instructor
* FINAL Project Presentation

4.2 Project Resources

4.2.1 Hardware Resources

* Macintosh laptop
* iOS device

4.2.2 Software Resources

* Xcode Version 7.2.17
  + Text editor that compiles and runs the code
* Simulator Version 9.2
  + Reproduces how the application would run on a mobile iOS device
* Firebase DB
  + Used to store user login information
  + Performs users login verification
* Import.io
  + Used to scrape data from the webpages

4.3 Project Organization

This sections provides an outline of how the project is divided based off its major functions

* User Login/Sign Up
  + Utilizing Firebase to store the user login information and user data. Firebase takes care of the back end things like encryption so user authentication will be performed by Firebase as well
* Scraping web data
  + Import.io is used to scrape data from retailer pages to store prices and item information when selected by the user

4.4 Project Schedule

This sections provides an overview of the project timeline and schedule.

4.4.1 PERT / GANTT Chart

4.4.2 Task / Resource Table

4.4.3 Class Schedule (optional)