**Project Requirements**

**Platform**

* Developed specifically for web browsers to run on all recent versions of Windows, Linux and OS X.
* Code mostly written in Java, utilizing the Play Framework as the web application framework of choice.
* Other languages such as SQL, JavaScript and Swift will be used as needed to work with the Java backend.
* Will integrate the Google Books API to retrieve textbook information.

**Functional**

* Enter the title or ISBN of a textbook and the application will retrieve all other information needed on that textbook.
* Ability to post a textbook on the application to be sold and not have to go back to the website, every proceeding step will be done using email.
* Can search for textbooks being sold only by other SUNY Oswego students and compare prices.

**Process**

* Code and all documents will be put on GitHub so that they may be seen by anyone and to track all changes that are made to every file.
* Application will be developed using either Vi or Sublime Text
* Comments will be added so that anyone wanted to contribute to the project after the semester is over can easily understand how each component works.
* All current and remaining tasks will be managed using the Gantt Chart created in Excel
* Project will be split up into different phases based on the different components needed to create the application. The big three components are the backend, frontend and database.
* If a task is finished before the due date, the leftover time will be used to move on to the next tasks to allow for a substantial amount of time at the end of the semester to make an iOS and Android application.

**Quality**

* Search results will completely appear within 5 seconds with all information and pictures displayed.
* Retrieval of information on specific textbook will take no more than 3 seconds.
* User will be informed immediately if he tries to buy a textbook that has very recently been bought.
* Email to the seller will be sent out within 5 seconds of a user clicking the buy button for one of the books he is selling.
* Main screen will be displayed within 3 seconds and a transition lasting no more than 2 seconds will make the search bar appear once the user chooses whether he wants to search or sell a textbook.