

WinterI Progress Report

UniversityGear

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Devin Foulger
Hector Trujillo
Bryan Liauw



Abstract

This document will recap what we have done over the term and will describe what we plan to do in the following year. It will go into detail about the goals we have set and how we plan to accomplish them. It will also include a summary of the project status as it is now. It will also include a retrospective of what has happened throughout the term.

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1 Introduction

Throughout the term, we have been able to accomplish and learn a lot. We were able to design an application that will help people purchase college merchandise. We were able to come up with requirements and analyze the situation in a meaningful way. The team also analyzed many different technologies that we will be using to complete the project.

2 Project goals and recap

The goal of the project is to build an Android application that will allow users to purchase college related merchandise. This means that users will be able to search for many items depending a lot of user provided information. They can search for specific schools and their colors as well as condition of item, or the price. We also set out to accomplish how to create documents in which we could effectively describe our project.

Here our recaps from each term for each week.

2.1 Fall Term

Week 2

During week 2, our group had just been in contact with our client, Luther. We discussed what was expected of the project and what eBay wanted. With this knowledge, we began work on our problem statement. This document outlined what was to be expected from the application that we would be developing. The team also set up a GitHub repo to hold all our documents and code.

Week 3

We completed our problem statement during week 3. After many emails with our client, we came to an agreement with the problem statement.

Week 4

During week 4, we had began to make plans on what needed to be revised in the problem statement. The team had also

created developer accounts on the eBay website and began looking at the APIs we would be using. We had also received a small rundown on what requirements will need to be met. Finally, we also began the weekly meetings with our TA.

Week 5

This week, we worked towards completing our requirements document. We had figured out what would need to be accomplished. Our client had also provided us with a mock up of what our application could look like. This helped with the creation of what requirements must be met.

Week 6

Over the course of week 6, the team accomplished a lot. We finished our requirements document and met with our client in Portland. After meeting with the team at eBay, it really felt like they wanted us to succeed. They helped us to better define the requirements that needed to be completed.

Week 7

During week 7, we began work on the tech review. We had split the requirements into three major parts: Searching and gathering data, UI and presenting data, and purchasing the items. After that, each team member focused on the parts that they had been assigned.

Week 8

Over week 8, the team did a mock design of what the application would look like. This was the beginning of the design document. Each member had also completed their part of the tech review. The review featured many different technologies that we would be using, discussing the benefits of each one.

Week 9

Large portions of the design document were completed over week 9. The group created a UML to demonstrate what classes might be used during development.

Week 10

The final week of the term, we completed our design document. However, we still needed to begin work on the fall progress report.

Overall, we set out to accomplish many goals over the term. The end result of each of our documents provides us with a good start for development.

2.2 Winter Term

Week 1

During week 1, we talked about when we were going to meet to do some paired programming. We also uploaded our blank Android project to GitHub to get started.

Week 2

This week we accomplished creating our search activity, however the class does not currently work with eBay's APIs.

Week 3

For this week, we were able to get eBay's search API integrated with our search class allowing for us to make searches. On top of that, we also started the list view activity and the item class. The item class will allow us to create items in any class. The list view allows us to view the items by using a recycler view.

Week 4

During week 4, we have been connecting everyone's pieces. This means that we can now go from searching to the list view correctly displaying search results. The list view correctly displays the title, image, and price of the item. The item class is also continually being added to, depending on what new variables we will be needing.

Week 5

This week, we have been updating the search activity to apply filters. It will also now only select BIN items and specific colleges. The single item view has also been completed. The user can now select an item from the list view to view in full detail in the single item view. This used eBay's API to get the correct information on a specific item. The item class has also been updated to handle many of the given fields for a single item.

3 Project status

The design for our application, UniversityGear, has been fairly complete. We have detailed the functional requirements of our project. We have also completed a technology review in which we discovered what technologies would be the most efficient with our application. Last, we created a design document to detail how we were going to implement the technologies we have found into our application. After many weeks of communication with our client, we have arrived at the development phase.

We have developed over half of our application. So far, we have implemented the ability to search, view, and select single items. This alone is a large part of the project. In the coming weeks, users will be able to purchase items, as well as use several filters to find the items that they need. These classes we have created also interact with eBay's APIs

4 Impediments and solutions

Over the course of the term, our team managed to avoid many impediments. However, we did need to revise our problem statement. In order to solve this, we re-wrote the problem statement with the revisions provided by the professors of the capstone class.

Another problem is the design documents. The format that is required is not something we are familiar with. There is a lot of questions regarding what to put where. After looking at several examples, as well as asking people, we managed to get it done in the end.

5 Retrospective

TABLE 1
Retrospectives

Positives	Deltas	Actions
Completed the problem statement	Didn't meet the criteria	Rewrote the report to define the problem better
Met with the client in Portland	Could meet with clients more frequently	Arrange more meetings on-line
Completed the requirements document	Not quantifying goals, spelling errors, and missing an abstract	Proofreading it more and asking for more clarifications prior to submitting it
Completed the technology review	Writing could be improved	Go to the Writing Center in order to see missed mistakes
Completed the design document	Can start earlier	Talk more to TA and instructor on clarifying some matters

6 Conclusion

During the course of the term we have learned many things. This includes items from different IEEE formats used in the real world to best practices when gathering project requirements. We also learned how to look at projects from the 10,000 foot level instead of trying to focus on specific details. We will begin development on our project during winter term. However, we are hoping to make progress during winter break.