

# **Project Phase II**

by

Andy Li  
Kai Song  
Stephen Harrichand  
Steven Diao  
Yang Wang

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CSCC01H3 F  
Anyta Tafliovich  
University of Toronto at Scarborough

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## **State of Current Project**

After going through Django tutorials and examining spike solutions, we learned about the features of Django and have a better estimate of the cost for our user stories. Hence we made many changes in our original Release Plan from Phase 1. It has many built-in features such as database creation/query, user account, and admin options. Most of this are covered in online tutorials and can be completed in a short time. As a result, the costs of implementing database and user accounts have decreased compared to our original Release Plan. Hence we revised our Release Plan and put these features in the first iteration.

For our iteration plan, we found it hard to keep up with the plan. As our burndown chart shows, we are behind schedule. Our project velocity dropped below expectation because we were still learning new technologies: how to use Git, its branch feature and merging effectively; how to stay organized and manage project efficiently using Asana; and how to implement OOP concepts in Django. We learned that it takes time and effort to slowly grasp onto these new technologies, otherwise if we speed through it, we will be very mistake-prone.

Prior to the CRC lecture, the team went through Django tutorials to investigate the spike on how to “scrape” websites. We wrote a working prototype and also found a framework (scrapy) that we could use. However, we didn’t include the time spent on the spike solution in our estimates and hence under-estimated our cost. After the CRC lecture, we started working on the CRC model. We didn’t start coding the app until our CRC model is satisfactory. This left us with a short time for coding and testing.

The good news is that we now have a process in place for managing the task board effectively. Once we become familiar with Django, Git and pair-programming, we expect our project velocity to pick up. We are currently building off of user stories 1-7 except 5 as presented in our ASANA web tool. As a result, we are moving quite nicely, albeit behind on our actual plan.

Currently, the application is able to retrieve an entire list of URLs from a web page in which it references to. However, they may not be valuable to a user yet, but at least it is able to retrieve them. As a result, we need to speed up and move the bugs we found and any incomplete tasks onto the second sprint and we will build off of that.

## **Iteration Plan**

Our iteration plan is in Asana under the project *Sprint 1 Task Board / Iteration Plan*. We grouped the Task Board with the Iteration Plan since the Iteration Plan consists of programming tasks derived from User Stories, and those tasks get assigned to developers in the Task Board.

## Task Board

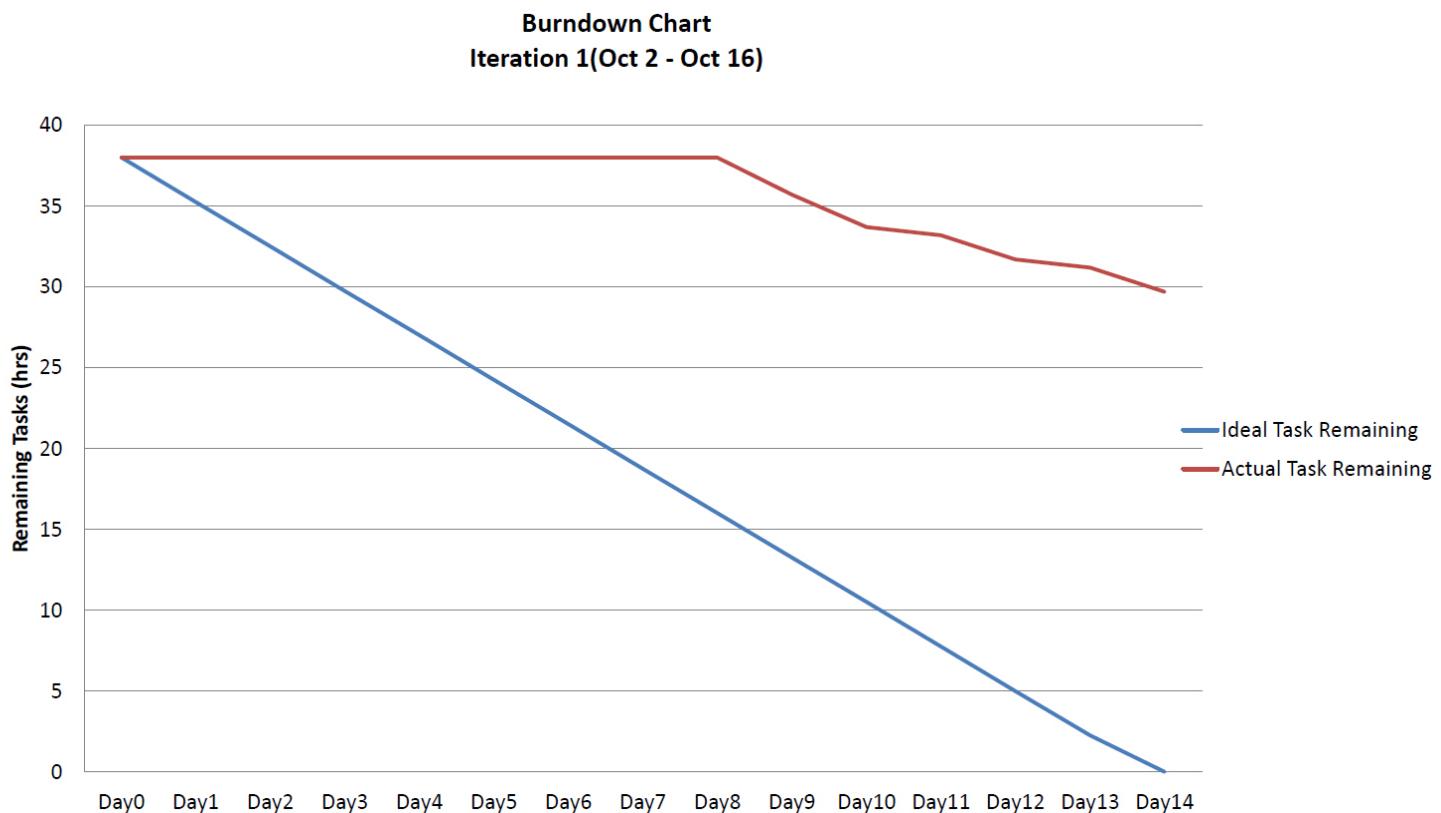
Our task board is in Asana under the project *Sprint 1 Task Board / Iteration Plan*. There are several categories listed: *TO DO*, *IN PROGRESS*, *TO BE TESTED*, *UNDER TEST* and *COMPLETED*.

Note that:

- Tasks are considered complete only when they have passed the acceptance tests.
- Completed tasks are checked off as completed, which means they will not appear in the default view that only shows remaining tasks. Hence to view all tasks, in the project screen, select view and click on *View all complete and incomplete tasks*.

## Burndown Chart

The burndown chart for our project is as follows:



## CRC Model

The CRC Model can be found within our GitHub repository in the Doc folder. The file is named CRCCards.pdf.

## Improvements from Phase I: Personas



*Librarian*

**Marilyn Torben** is a 36 year old librarian who completed a four year undergraduate program at Ryerson University in English and chemistry. She is a very studious person who wants everything in order. Ms Torben requires any application that can help her format data obtained from websites and other miscellaneous sources. In addition, she prefers applications that possess an intuitive design that is ideal for her preference and optimal performance.

Ms Torben has a knack for the Dewey Decimal Classification System and is able to sort books without even thinking. Furthermore, she is able to recommend books and authors to others who are interested. Overall, her job demands a significant amount of time and effort, so she can not spend a lot of time figuring out programs if they are too clustered or unintuitive; she needs fast processing and quick results for busy lifestyle at work.

Ms Torben wishes for an application that would allow her to convert websites, charts and other info given by the GUI of the internet search app to convert to WARC format. She is mostly stationary and would like an app that could process in the background without interfering with her other work.

In University, she has learned many transferable skills that allow her to use programs intuitively and even manage the code. She took a couple of computer science courses and have coded in C# allowing her to understand simple algorithms and error checking. She is able to understand the syntax and logic problems and is able to work around them.

Overall, she is very knowledgeable about technology and is able to use most applications without difficulty. In addition, she prefers Android over iOS and carries around the latest Samsung Galaxy S5. However, she uses a Mac because she prefers the options Macs offer to her job over PC. As a result, she prefers programs that run on both operating systems that allow her to record data of websites that are linked and format them in a WARC.



*Researcher*

**Juan Diaz**, is a 38 year old assistant professor of Anthropology at the University of Toronto Scarborough. He has an attentive personality and is pragmatic. He likes social interactions with others, routine and predictability. In addition, he focuses on current events around the world by reading the newspaper, blogs and miscellaneous online articles. Ms Diaz requires an app to keep track of certain website being linked on other websites. Mr Diaz has little background in the field of technology but has kept up with the trends of social media such as twitter, facebook and others and can use them proficiently.

Mr Diaz has worked in his field for 15 years and has been part of a team that has discovered many exciting artifacts. Mr Diaz's main job however is to do research and to study ancient society and comparing to current events. His skills include dynamic thinking, great project management, and understanding what other people think at the time and place. As a result, his focus is currently on the Israeli and Palestinian conflict.

Mr Diaz needs an app that allows him to keep track of his most relevant articles and website that allows him to see how many people have reference this article/website. This is crucial in his research as it allows him to see how social media reacts to conflicts like this. Albeit, Mr Diaz is not tech-savvy, so he wishes for something very simple and intuitive that has a tutorial to help him learn the basics of the program. As a result, he cannot understand any ambiguous error messages, syntax of code and needs to have all of the implementation details abstracted away from him. Also, he doesn't need too many features as simplicity is all he requires.

Mr Diaz carries an Android Phone and has a Windows 8 computer. He can use most of the main apps on Windows, but does not understand commandline and other OS commands. Mr Diaz has no preference on which platform the app is on, as long as he is able to have access in his work place. Overall, a simple intuitive app with web crawling features is all he seeks.



*Reporter*

**Mewar Snowden** is a 31 year old reporter currently stationed in Russia. He has been able to find and leak significant amounts of relevant information about various topics and wishes to know how much influence he has on the rest of the world. Mr Snowden has a very low-key and discrete personality, but is able to get the big scoops when presented with the opportunity. Thus, Mewar is always on

the move and as a result, he wants something that could easily be accessed anywhere and can process fast and remember his savings. Mewar rd is also a big fan of twitter so he wishes for a twitter feature to be added as well.

Mewar Snowden studied at MIT for computer science and had a job with the US government. He worked at the NSA, so he is very confident in his skills to understand the underlying code of most programs and is able to clearly identify what is wrong with them and what he has to do to make it work. However, after revealing the information about the NSA, he moved to Russia work as a reporter. He reports a lot of US government actions and doesn't have to time or resources to make an app that can help him search for his own articles online.

Mewar needs an app that can keep track of how many times his articles were referenced and linked. He has no preference on simplicity, but he wants to be able to use the program remotely from anywhere and the ability to export the data and use it in his other projects. He is confident in his ability to further improve in a technological sense and to even hack into other programs. He carries around an iPhone and can use any application perfectly and has no problems understanding the formal syntax. He personally prefers the application to be compatible with macs.

Overall, Mewar has no problems regarding the aesthetics of the application, but much rather prefer an app that is mobile, saves his data, and boots up quickly and efficiently.



*Librarian IT*

**Steve Gates** is a 57 year old veteran in the field of computer engineering. He holds a 4-year degree at University of Toronto in Computer Science. Mr Gates currently works at the UofT library as the IT administrator. He prefers to have everything organized in his own way and he doesn't need to use any apps, but rather a way either through the UI or the backend of the program to test, change and modify other users and even the source code. His job requires him to optimize all programs that are assigned to him.

Mr Gates has been the “IT guy” since 1985 and he has a lot of experience working with hundreds of programs and is fluent in many programming languages. He worked in many programming teams before and has done a lot of coding and perfecting. His skills allow him play around with the UI, data managing/processing and managing the system. Mr Gates also appreciates well designed programs with intuitive GUIs and optimized space management because of his past experiences.

Mr Gates carries uses a PC, but uses Linux and prefers that he is able to edit and use the app on Linux. Albeit, he is capable of forcing it to work. Overall, Mr Gates wants an easy way to maintain a program with optimized and intuitive code design. He would also appreciate a way to access the source code and a way to change contents in accounts through the UI.

## **Improvements from Phase I: Release Plan**

In Asana, there is a project called Release Plan and we improved it to meet the requirements of Phase I. It consists for 4 parts: Sprint 1-4 and a Backlog. The following is a list of the adjustments we made:

- Dates of when user stories are due are noted as the due date of the respective Sprint
- Total cost per sprint is mentioned in the the respective sprints(click the header): Sprint 1, Sprint 2, Sprint 3, etc
- Adjusted the priorities of many user stories - now includes Low
- Identifies have been added and the ranking is respective to the numbering column on the left
- User stories now reference each of our personas