**Iteration Plan 1**

For Iteration 1, we are planning to build on some of the user stories that we had come up with for the librarian, library programmer and researcher during Phase 1. During Phase 1, we chose Python as our programming language because we were able to find all the API’s necessary for the system to be fully compatible with Python. Then, we decided to use MongoDB to store twitter and article data using PyMongoDB. In this iteration we will implement functions to web scrape news sites using newspaper API, along with using a Python based Twitter API to search tweets and get information from users.

After meeting up as a group and evaluating the user stories, we decided to work on 9 User Stories (#1, 2, 5, 6, 8, 13, 14, 21, 22). This is because they seem to be programmatically related and also build a solid backend of our work. We have sorted the User Stories in terms of Priority first then Cost to implement high priority stuff as fast as possible.

Total User Stories: 9

Total Cost: 21 Days

Start Date of Iteration 1: Sep 25, 2014

Due Date of Iteration 1: Oct 15, 2014

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| **User Stories** | | |
| **Cost (Days)** | **Priority** | **User Story** |
| 2 | H | 2. As a Library Programmer, I want the application to use open standards, so that it will be effortless to modify and understand by anyone. |
| 2 | H | 13. As a Researcher, I want to define a list of global English-language news sources to monitor, so that I can set the scope of my research. |
| 2 | H | 21. As a Researcher, I want to define a list of Twitter accounts to monitor, so that I can set the scope of my research. |
| 1 | H | 14. As a Researcher, I want to modify the list of sources that are monitored, so that I can adjust my research scope as needed. |
| 3 | H | 22. As a Researcher, I want to be able to look into Twitter accounts of inputted user names and search keywords/hashtags, so that it can be used for my research analysis. |
| 5 | H | 1. As a Librarian, I want a program that crawls in inputted news sites and stores their data and sources in a database, so that it can be used for further analysis. |
| 1 | M | 5. As a Librarian, I want the capability to directly edit the input URLs, so that I can ensure the reliability and usability of researcher's input. |
| 2 | M | 8. As a Librarian, I want to be able to find out the date on which an article has been stored, so that I sort and analyse my data effectively. |
| 3 | L | 6. As a Library Programmer, I want the capability to directly edit the configuration file for micro settings, so that I can control and optimize the output of the program. |