**CSE361 Requirements Specification**

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**1.0 Introduction**

The product we are developing is a “twitter-like” web application for use by employees of the company HAL to facilitate communication of employees regardless of geographical location. The information provided by the application will be built from information stored in a database. The information will be 200 character maximum “tweets” that will hold productive information for employees to share.

* 1. **Purpose**

The purpose of this project is to help employees of HAL collaborate by sharing “expert knowledge” on the subjects of which they are knowledgeable. Specifically, a coder may be searching for an algorithm to use in his work and would like to search within the company to find another coder with a solution. In our implementation, the coder in question can search for posts based on hashtags that indication subject matter. The information will be gathered though the posts, stored on the database. The posts will then be searchable though our interface by searching hashtags or reading a particular user’s posts.

* 1. **Document Conventions**

To aid the readability of this document, certain conventions will be used. The main purpose of the document itself is to convey the requirements, so emphasis is placed on the segmentation of requirements and their descriptions. Each requirement will be begin with R# where R indicates a requirement and # will be a unique number assigned to that requirement. Any technical or otherwise ambiguous terms will be defined in section 4.

* 1. **Intended Audience**

This document is intended for the client, and members of the software team that will be building the application. It is a contract between the client and builders of the application that states exactly what they would like to have built and what will be built. Some aspects of the application in terms of requirements will be explained at a high level, such as functionality. Other aspects will be described at a low level, as to emphasize the feasibility of the functions to be carried out. This document will aid the testers, as a clear understanding of the requirements will lend to the way in which it can be tested.

* 1. **Product Scope**

The scope of this product is limited to developing a web application to be rendered on either a desktop computer screen or mobile computer screen. The application will capture user input through posts that will be stored in the database for retrieval in a variety of ways that are unique to each user of the application. The functionality of the application will tailor the view every user gets by: following users and hashtags, or liking posts. Sections 2.2 describes these functionalities in greater detail. The information displayed will be dynamic, as every X minutes the page will automatically refresh to show the most current information. The application will be interactive, users will be able to sort posts that they see. Sorting is also described in Section 2.2.

**1.5 References**

[1] New Oxford American Dictionary

[2] twitter.com/about

**4.0 Appendix A**

* **Hashtag** – A sequence of characters beginning with “#”. Indicates the subject matter of a post.
* **Post** – A 200 maximum sequence of characters that a user shares information through.
* **Twitter** – An online service that allows users to post messages and follow other users [Twitter.com].
* **Database** – A structured set of data held in a computer, esp. one that is accessible in various ways [New Oxford American Dictionary].
* **Follow** – A function a user can perform on another user or hashtag to make their posts appear on their main page.
* **Like** – A function a user can perform on a post to make the post appear in their favorites.