Software Requirement Specification Document

wolower

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1. Introduction

This section will describe the scope of this software requirement specification document. You will also find the purpose of this document.

Every single day, you expose lots of tweets tweeted by your followings which means a lot of information you can be no interested in. It is quite hard to find the information on the subjects that you are intereted in. The “wolower (wälō-ər)” is setting off to solve this problem.

1.1. Purpose

The purpose of this document is to give you a detailed description of the requirements for the project. The “wolower” is a twitter-based application that is analyzed, designed, developed and managed for the lesson SWE-573 Software Development Practice at Bogaziçi University.

1.2. Scope

Users will be able to “follow the words” (we are going to call this phrase as **wolow** starting from now) from Twitter users by using the application that will be developed in the scope of this project. The tweets contain the words selected by the users will be displayed by the system. The system will also allow the users to like, retweet, and follow those who tweeted the tweets displayed.

The system will be a web-based application. Users will access the system by using the web-browser installed on their PCs and their mobile devices.

The system will be learning your interest by watching your behaviors through. Every like, every retweet, every follow will be a parameter for the system to know you better.

1.3. Definitions

Term	Definition
To wolow	To follow a word
Woow	A word that is defined in the system and ready to wolow
Wolower	The platform provides you to wolow the woows you desire

2. Requirements

2.1. Functional Requirements

2.1.1. Functional requirement 1

ID : FR1

Description : Users shall log in to the system before starting using the system.

2.1.2. Functional requirement 2

ID : FR2

Description : Users should register to the system through the pages provided in the web application. The system should require from users email address and password for enrollment.

2.1.3. Functional requirement 3

ID : FR3

Description : The system shall provide the users a “forgot password” service.

Dependency : FR2

2.1.4. Functional requirement 4

ID : FR4

Description : Users should be able to log in to the system by using the feature of “Sign in with Twitter”.

2.1.5. Functional requirement 5

ID : FR5

Description : The system shall display a message to warn the user about that he/she has no woow.

Dependency : FR1 or FR4

2.1.6. Functional requirement 6

ID : FR6

Description : The user should choose the predefined woows to wolow or add their desired new woows into the system.

Dependency : FR1 or FR4

2.1.7. Functional requirement 7

ID : FR7

Description : The system shall display the tweets associated with the wolows of the user in the page (will be home page) that come up right after successful login.

Dependency : FR1 or FR4

2.1.8. Functional requirement 8

ID : FR8

Description : User should be able to follow those who tweeted their woows.

Dependency : FR4

2.1.9. Functional requirement 9

ID : FR9

Description : User should be able to retweet the tweets what contains their woows.

Dependency : FR4

2.1.10. Functional requirement 10

ID : FR10

Description : User should be able to edit their information like below:

- Email address
- Profile image

Dependency : FR1 or FR4

2.1.11. Functional requirement 11

ID : FR11

Description : User should be able to change their login password.

Dependency : FR1

2.1.12. Functional requirement 12

ID : FR12

Description : User should be able to wolow new woows quickly and easily.

Dependency : FR1 or FR4

2.1.13. Functional requirement 13

ID : FR13

Description : User should be able to get active or deactivate the location-based displaying of the application.

Dependency : FR1 or FR4

2.1.14. Functional requirement 14

ID : FR14

Description : User should be able to choose the language in which they desire to see the tweets contains their woows.

Dependency : FR1 or FR4

2.1.15. Functional requirement 15

ID : FR15

Description : The system should be able to display the results according to the location of the user.

Dependency : FR1 or FR4

2.1.16. Functional requirement 16

ID : FR16

Description : The user should be able to enable or disable the “getting location” feature of the system.

Dependency : FR1 or FR4

2.1.17. Functional requirement 17

ID : FR17

Description : The user should be able to like the woow that s/he desired.

Dependency : FR1 or FR4

2.2. Non-functional Requirements

2.2.1. Non-functional requirement 1

ID : NFR1

Description : The system shall have an API to wrap its business logic to fulfill the further requirements supporting other platforms like mobile phones.

2.2.2. Non-functional requirement 2

ID : NFR2

Description : The system should have unit tests for its APIs and for the back-end of its user interface and test coverage should be at least 65 – 70%

2.2.3. Non-functional requirement 3

ID : NFR3

Description : The system shall be reliable for users. It shall need any personal information to operate.

2.2.4. Non-functional requirement 4

ID : NFR4

Description : The system shall be scalable, resource-efficient and high-performer.

2.2.5. Non-functional requirement 5

ID : NFR5

Description : The system shall be user-friendly, easy to use and self-explanatory.

2.2.6. Non-functional requirement 6

ID : NFR6

Description : The system should be responsive to the platforms that are accessed through. It should support the modern web-browser engines and should be accessible and easily usable from the variety of devices like mobile phone, tablets, and PCs.

2.2.7. Non-functional requirement 7

ID : NFR7

Description : The system should be able to run on the various devices.

2.2.8. Non-functional requirement 8

ID : NFR8

Description : The system shall be runnable on the various operating systems such as Windows and Linux, in particular on the Linux-derivative operating systems.

2.2.9. Non-functional requirement 9

ID : NFR9

Description : The system shall be fast enough and has a high performance. The integration with Twitter shall be less than 3 seconds.

2.2.10. Non-functional requirement 10

ID : NFR10

Description : The system shall be learning from the behaviors of the users. Every like, retweet and follow will be used as a learning parameter to display better results from the woows.

3. User Stories

3.1. Personas

3.1.1. Kyle Sang

Kyle is an accountant in a startup company. He is twenty-seven years old, tall, and likes using Twitter very much. He spends about 2 hours on Twitter every day. He leverages Twitter in the almost every manner, he tweets in political topics, about football, he sends direct messages to his followers, and he follows renowned people in accounting. Also, he loves learning new things. Finally, he is an American man in London ☺

3.1.2. Tracy Panwar

Let me introduce you, Tracy. First of all, she is a mother who has 3 children. She got divorced her husband about three years ago and she lives in Norfolk, Virginia. She is a very successful manager in a famous healthcare company. That's way she has to work late hours and does not have that much time to surf on Twitter. Because in the other times remaining from her job she takes care of her children.

3.1.3. Dennis Cooper

I think you already know that big Cooper Incorporated. Dennis is the successor of the high-level leadership of the company, but guess can he become CEO of the company? Well, does he want to become a CEO? Exactly no, he only wants to become a Twitter phenomenon. He spends his all time in

Twitter by sharing information with his followers in the topics that he finds interesting and he is consistently searching Twitter for interesting topics. Finally, he wants to move on India.

3.2. Kyle's Story

3.3. Tracy's Story

3.4. Dennis' Story