

Software Requirements Specification

July 09, 2019

User Blog Website

prepared by

Oatmeal Raisin Web Development Group

Team Members:

Reed Schrier

Yan Huang

Milush Yanev

Alvin Heng

Gabriel Bueno

Submitted in partial fulfillment of the requirements of CS 4800 Software Engineering

Any comments in double brackets such as “<<,” “//,” or “#” are not a part of the of this Software Requirements Specifications document but are comments upon it in order to help the reader better understand the point being made about methods used in the program.

Please refer to the Software Requirement Specification Document for details on the purpose and rules for each section of it.

The work is based upon the submissions of the Summer 2019 CS 4800.

People who are working to complete the execution of the Software Requirements Specification Document are Reed Schrier (Team Captain), Yan Huang, Milush Yanev, Alvin Heng, Gabriel Bueno.

Table of Contents

1.0	Introduction.....	4
1.1	Purpose.....	4
1.2	Scope of Project.....	4
1.3	Glossary.....	5
1.4	Overview of Document.....	6
2.0	Problem Description.....	6
2.1	System Environment.....	6-7
2.2	Functional Requirements Specification.....	7
3.0	Approach.....	8
4.0	Requirements.....	9
4.1	Functional.....	9-11
4.2	Non-functional.....	12
5.0	Contract Agreement.....	13
5.1	Agreement between parties.....	13

1.0 Introduction

1.1 Purpose

The purpose of this document is to present a detailed description of the User Blog Website Service that Oatmeal Raisin Web Development Group will create. It will explain the purpose and features of the website, what the users will be able to do, how it is build and how it will react to external stimuli. This document is intended for both the client and the development company and it will be only approved if both sides agree on the terms and conditions stated inside of it.

1.2 Scope of Project

The website service will be a User Blog Website for any members with a valid email address. It will be designed to bring users together by creating different blogs with no restrictions about subjects except legal exclusions such as offensive themes such as inappropriate sexual subjects, racism, terrorism etc. Inappropriate language or themes used inside the website will give the administrator the option to ban the user. Other users will also be able to report another user for inappropriate content.

More specifically this service is designed to allow an admin to manage communication inside a group of bloggers and articles posted on the website. The software will facilitate a username, which will be correlated with a valid email address entered. The maximum number of users will be 1 million with the option to be extended under different conditions later. The system will contain a relational database containing username, email, password, and number of blogs.

1.3 Glossary

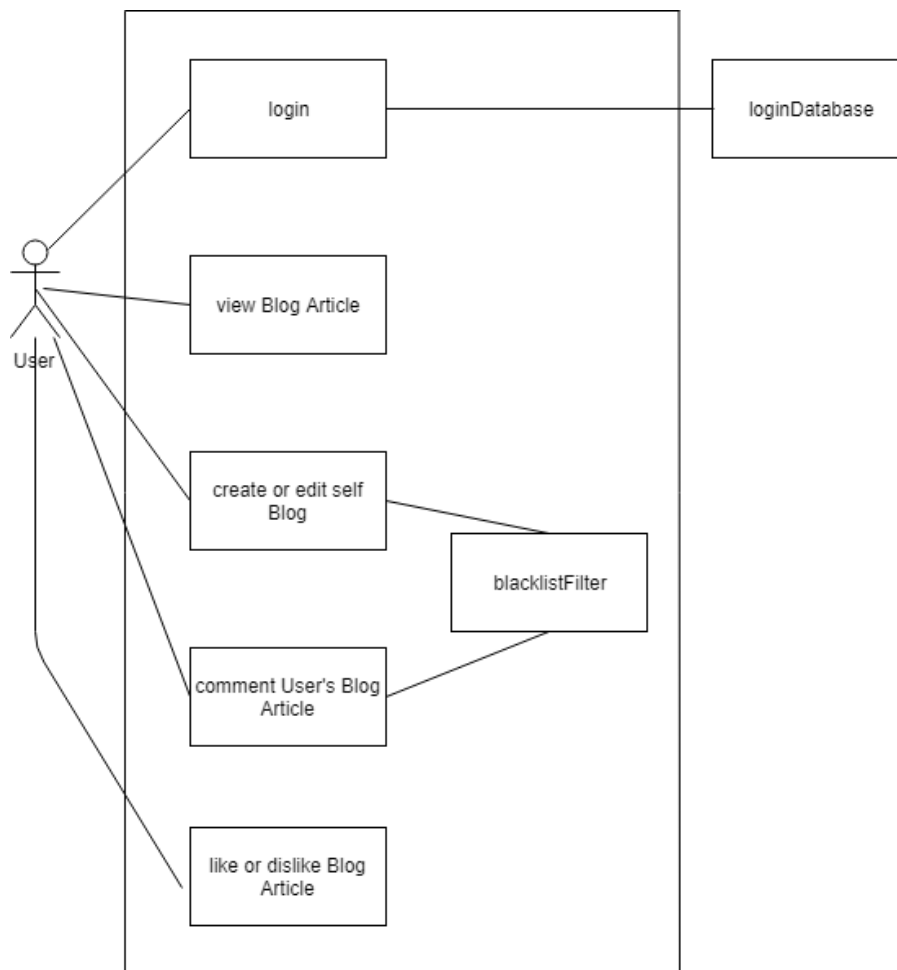
Term	Definition
Active Blog Article	An active document created by a user, which can be edited or deleted by administrator
User	A person with a valid email address. It has the option of post, edit own posts, comment, like or dislike other's posts.
Admin	A member of the support team who has full privileges to add, edit, delete posts, comments, or users.
Active Post	A written opinion by a user, containing a maximum of 10,000 characters.
Comment	A written opinion by a user, containing a maximum of 1,000 characters.
Like/Dislike Option	An option for users to express feelings about another user's post
Software Requirements Specification	A document that completely describes all the functions of a proposed system and the constraints under which it must operate.
Client	Any person who is interested in this project and is not a Developer.
Author	A member of the Development team, who is submitting this article to be reviewed by the Client. A person with whom all communication is made.

1.4 Overview of Document

The next chapter gives an overview of the functionality of the website. It uses text examples, followed by a simple use case diagrams in order to support them. This is made specially for the Client to better visualize the product and its functionalities.

2.0 Problem Description

2.1 System Environment



The Website Blog System has two main actors and one cooperating systems. The user and Admin have to login for the system to check credentials. In order to do so, the information will be checked with the cooperating system, in our case a LoginDatabase. The LoginDatabase will have information about user, email, password, isAdmin and banned user. The banned user will not be able to use the website services anymore. When the regular user verifies its credentials, there will be an option to view active blogs, comment on other's blogs, like or dislike other's posts. The administrator will have the option to delete a post or comment, ban or delete a user. If the admin chooses to ban the user, he/she will no longer be able to use the website services. All the necessary information will be stored in a database, operated by a third company. The client will be able to decide what to do with the database information.

2.2 Functional Requirements Stated by Client

The client wants to create a website service for minimum of users that will be able to create, edit, like, dislike a blog Article. In order to do so the user must have a valid email address, create a username and password. Any comments made by the user cannot be longer than a thousand characters. There is also no password restriction besides needing to have a minimum length of six characters.

3.0 Approach

In order to satisfy the client's requirements, Oatmeal Raisin Web Development Group will have to use Maria database services. The reason for this is that it is more reliable, cheaper and easier to maintain. In the original contract, the company will create a web service that will hold up to one million people with the option of expanding that only after future negotiations. For the frontend, the company will use JavaScript, Django for middleware, and MariaDB for backend. The maximum length needed for completion of the project will be four weeks and there will be weekly progress update. In order to satisfy the client's requirements, the company will need to have a personal access to the client at any time for regular business hours.

4.0 Requirements

4.1 Functional Requirements

Title: Account/Login

Desc: All users must have an account in order to create blogs, post a comment, and like or dislike posts. All accounts are created using an email and a password with a minimum amount of characters. Emails must be verified for the account to be usable. Users without an account can only view public posts and blogs.

Title: Profile Page

Desc: Each user with account will have a profile of their own where it shows their personal information, the number of posts and comments that the user has posted. The users will have the option to hide their personal information from their profile. The user will be able to customize their profile theme color.

Title: Blogs

Desc: Users can create multiple blogs that must have at least one post. Blogs will be shown and listed in the user's profile page.

Title: Posts

Desc: Users can post text, embedded images and/or videos with the ability to format their text with different colors and styles with a maximum of 10,000 characters. Users can also be able to edit their posts after posting. All public posts are visible to anyone including user without an account. All posts must be a part of a blog they have created.

Title: Comments

Desc: Users with an account will be able to comment on posts with a maximum of 1,000 characters without being able to format the text. Users without an account will only be able to view comments without being able to post any comments on the posts.

Title: Like

Desc: Users with an account will be able to like other users' posts.

Title: Dislike

Desc: Users with an account will be able to dislike other users' posts.

Title: Back Button

Desc: Users with an account will be able to go back to the previous selection.

Title: Change Profile Picture

Desc: Users with an account will be able to change their profile picture.

Title: Change Theme Color

Desc: Users with an account will be able to change theme color.

4.2 Non-Functional Requirements

- Blog Article Count
- Database Storage
- Accessibility
- Backup
- Documentation
- Privacy
- Modifiability
- Capacity of Users
- Security of User Database
- Platform Compatibility

5.0 Contract Agreement

5.1 Agreement Between Parties

Company Manager Signature

Company Acting Manager's Name

Effective Date

Client's Signature

Client's Last, First Name

Effective Date