Software Requirements Specification

for

Online Blogging System

Version 1.0 approved

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10 December 2020

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Revision History

Name	Date	Reason for Changes	Version

1. Introduction

1.1 Purpose

An Online Blogging System is basically a website which is used for chronological listing of blog posts. A blog has the most recent content shown first followed by the previously updated content. An Online Blogging System website is a site dedicated to the blogging. One such good example of this service is https://www.blogger.com/about/

1.2 Document Conventions

This document is formed using IEEE SRS format, headings are in bold capital letters and wherever a necessary diagram is provided.

This document uses the following conventions.

- *DB database*

1.3 Intended Audience and Reading Suggestions

This project is a prototype for the blogging system and it is restricted within the college premises. This has been implemented under the guidance of college professors.

1.4 Product Scope

The purpose of the online blogging system is to ease blog management and to create a convenient and easy-to-use application for bloggers.

1.5 References

- IEEE SRS Document
- *https://www.google.com*
- *https://www.perforce.com/blog/alm/how-write-software-requirements-specification-srs-document*

2. Overall Description

2.1 Product Perspective

A blogging system database system stores the following information.

1. ***Blog description**:*
   It includes blog content, date and time for blog, author of blog etc.

2. ***User details**:*
   It includes user name, password, email-id, blogs etc.

2.2 Product Functions

This product can be useful in the replacing the newspaper articles to save the nature.

- *Login module*
- *Registration module*
- *Show Blogs list*
- *Create / edit / update / delete blogs*
- *Search blogs based on title, author or dates*
- *Markdown syntax for blog content*

2.3 User Classes and Characteristics

- *Users:*
  - *Users can access the blogs.*
  - *Users can sign up for new account.*
  - *Users can create, delete, update posts(blogs).*

2.4 Operating Environment

This website will work on any platform which have integrated browser and internet support.
It works on major browsers like chrome, Firefox, safari, edge etc. Works with many operating systems like windows, Linux and macOS.

2.5 Design and Implementation Constraints

Blogging System is a Web application, so user needs to use any kind of browsers and also need internet. When users or merchants use legacy browser then the UI of website sometime does not work. Software maintenance will be available from our side without any charges.

2.6 User Documentation

User manual and product tutorial video link is provided with SRS. Screenshot of the whole product is also available to user for future reference.

2.7 Assumptions and Dependencies

While developing this product we assumed following factors.
• User will have any kind of smart device like laptop, pc or smartphone.
• All these devices are capable to run modern browsers.
• User will have internet connection. The project could be affected if any of these assumptions are incorrect.

3. External Interface Requirements

3.1 User Interfaces

Since Blogging system is a web application, it comes with user friendly and easy to use user interface. It comes with easy navigation without any learning curve.

- *Front-end software: Angular, Html, CSS, JavaScript*
- *Back-end software: Mongo DB, Node js*

3.2 Hardware Interfaces

- *A browser which supports HTML & JavaScript*.
- *As a hardware we need smart devices which can easily run any modern web browsers. To communicate with data in the system user need good internet connection*

3.3 Software Interfaces

Following are the software used for the blogging system.

Operating system *- Linux, windows or macOS.*

Database *- To save the blogs content, passengers records we have chosen Mongo database.*

For the communication of the data user must require internet connection.

3.4 Communications Interfaces

This project supports all types of web browsers. We are using simple forms for the login, signup etc.

4. System Features

Blogging Site provides services to add, remove and updating of the post with access control. The site saves the time of author by giving the lots of feature on hand.

4.1 Functional Requirement

4.1.1 Show Blogs list

Input: *button click*

output*: List of posts with the link to respective post page.*

description*: To list down all the post on the home page of the site.*

precondition*: There is no need to log in to as blogs must be available to all users.*

4.1.2 Search blogs

***input**: search query as a string.*

***output**: Success or Failure.*

***process**: search based on user query and show matching blogs.*

precondition: *There is no need to log in to as blogs must be available to all users.*

4.1.3 Login

***input**: Username and Password.*

***output**: Success or Failure.*

***description**: User can use this page to login to the system by entering personal credentials (username and password) and will be redirected to a home page based on role to use the features of the website.*

***process**: Check the username and matching password in the database. If found in the database then redirect the user to his/her home page.*

***precondition**: User must be registered on the website.*

***postcondition**: User is logged in to the website and a new session is associated with the client connection.*

4.1.4 Registration

***input**: User needs to fill up the registration form.*

***output**: Success or Failure based on availability.*

***process**: If data are valid, make changes to database otherwise handle appropriately.*

***postcondition**: User is logged in to the website and a new session is associated with the client connection.*

4.1.5 Add Blog

***input**: User needs to fill up the from containing info like title, description, content etc.*

***output**: Success or Failure.*

***description**: This feature is used to add new blog.*

***precondition**: User must be login on the website.*

***process**: If validation is successful, make changes to database otherwise handle appropriately.*

***postcondition**: An alert is displayed based on success or failure. If success, post will be added.*

4.1.6 Update Blog

***input**: User needs to fill up the from containing info like title, description, content etc.*

***output**: Success or Failure.*

***description**: This feature is used to add new post by the user.*

***precondition**: User must be login on the website*

***process**: If validation is successful, make changes to database otherwise handle appropriately.*

***postcondition**: An alert is displayed based on success or failure. If success, post will be updated*.

4.1.7 Delete Blog

***input**: User click.*

***output**: Success or Failure.*

***precondition**: User must be login on the website.*

***process**: If validation is successful, make changes to database otherwise handle appropriately.*

***postcondition**: An alert is displayed based on success or failure. If success, post will be removed*.

4.1.8 Logout

***input**: button click.*

***output**: Success or Failure.*

***process**: Session is destroyed and user is redirected to home page.*

***precondition**: User must be logged in the website*

5. Other Nonfunctional Requirements

5.1 Performance Requirements

Performance should not be an issue because of all the data queries involves small pieces of data. Changing screen will require very little computation and thus will occur very quickly. Server updates could only take few seconds as long as device can maintain steady signal. website will also up for 24x7 except the maintenance.

5.2 Safety Requirements

Make this application lightweight, so that it put low load on device.
Only the project admin will be having access to the database at the back-end. So, the admin will have rights for modifications as well as direct updates to the database.

5.3 Security Requirements

System should provide secure login/registration system. And don't allow unauthorized user to access the application.
Security systems need database storage just like many other applications.

5.4 Software Quality Attributes

System should be
- Consistent in performance
- Safe and Secure
- Robust
- Scalable
- Flexible
- User friendly
- Efficient
-

Availability: *The website should be stable and available at any time.*
Correctness: *The blog's details and content should be displayed correctly.*
Usability: *The blogging system should satisfy a maximum number of customer's needs*.

5.5 Business Rules

Blog owner can only manage the blogs of his/her own. He/she cannot interfere in other's blog post.

6. Other Requirements

Database: NoSQL (Mongo dB)
Web based application

Appendix A: Glossary

Developer means A person or group of people who are going to make your application.