SOFTWARE REQUIRMENT SPECIFICATION

SRS for OUGLA BLOG BUILDER APP

Team Members:

Muhammad Hamad	(Team Lead)
Muhammad Sufiyan Qasim Patel	(Developer)
Muhammad Nouman	(Writer)

Table of Contents

1) INTRODUCTION:

1.1) Document Purpose

In this document we describe the software requirements for an "**AN AUTOMATIC/ONLINE BLOG BUILDER SITE**". The purpose of this application or project will be to be able to help the busy customers and users to make **blogs and articles** so it can help them in a way to save their precious time. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2) Intended Audience

This application is for the people who want to write blogs, articles and other content using online platform. This application can be used by staff or admin members as well to write the new articles and can also use to update the previous blogs and articles. Thus, the targeted audience are the **individuals** who wants to write their **intellectual thoughts** in the form of **blogs and articles** as well as this site is also helpful for **staff members** and **admins.**

1.3) Document Scope

This software system will be an "AN ONLINE BLOG BUILDER SITE**".** This system will be designed to maximize the easiness of the users to write **blogs and articles**, which would otherwise have to be written or made on normal websites which would involve in learning and obtaining programing skills

More specifically, **Blog site Builder** you can refer to as a **light version** of the **WordPress platform.** Where a user can sign up by entering his/her site name and he/she will be given a 2 paged blog website in which he can write **Articles and blogs**. People can read each other's blogs and articles by going to their specific site address. Every site owner will be the admin of their site and tweak a little bit in the GUI of its website for instance change text, colors, headings and much more from the admin panel, the site owner can also publish his blogs.

1.4) Background Information & History

Digital lifestyle is gaining huge popularity in the modern world. People began to constantly use and utilize the maximum amount of their times in computers-based machines or computers everywhere. Our team has set itself the goal to gather together all the necessary functions to how to deliver a perfect online package i.e., to **write blogs and articles**. To help the people in writing useful products and bring pleasure on every one's face and it surely won't take a lot of time.

1.5) Acronyms & Definitions

OCSMS-- Online Blog & Article Builder Site (for blogs & articles)
SRS-- Software Requirement Specification
GUI-- Graphical User Interface
Stakeholder--The person who will participate in system; Customer, Administrator, Visitor etc.
Button --A user interface element that allows a User to click and inform the system to take an action.
Checkbox-- A user interface element that allows a User to inform the system that he/she selected a particular item.
CRUD--Create, Retrieve, Update, Delete
Customer-- A person that is a user of the system but has created an account.
User--The person who operate the software product.
Manager --A single person that has the ability to create, retrieve, update and delete **blogs & posts**.

2) OVERALL DESCRIPTION:

2.1) Product Perspective

This application is to replace **manual work** with **simpler** and less **manpower work**. Saving huge number of staffs and giving them the comfort to work more efficiently and accurately including making fewer human errors. This application is a **standalone project** and is expected to evolve over time allowing even more efficiency and attractive features.

This product will need somewhere to store the data. For that, a database will be used. The application will communicate with the database. The application will use the database to get data and also add and

modify data. All of the database communication will go over the Internet and the users of the application would be able to check their **blogs & articles**.

2.2) Product Functions

Some major functions,

- Login Functionality
- Feedback system
- Verifying that the admin of the system is right
- Users can update their profile
- Perform CRUD operations on there blogs.

2.3) User Classes & Characteristics

The user classes that would use the "**ONLINE BLOG BUILDER SITE**" are:

- **Admin** (aka the Site Owners)
- **Users** (anyone)

Customer is people who must have to register themselves to use "**AN ONLINE BLOG BUILDER SITE** ". To use the service people should have a basic computer using ability.

- **External User**

External users are people who have not got any user account for website. They can access only general information.

2.5) General Constraints

General constraints that must be followed for efficient use of system are:

Regulatory policies

It is a mandatory that no text box must be left empty or contains insufficient data.

Control function

The software must be very user-friendly and display appropriate error messages.

Reliability Requirements

Data redundancy and use of special/blank character must be avoided.

Higher Order Language Requirements

The server application should be available 365 days 24x7.

Security and Safety Issues

Username, password both are considered as security issues.

2.6) Assumptions and Dependencies

1. The user must be able to use internet.

2. User must have connected to internet to use the system.

3. The computer must be Windows 95 or later version platform.

4. The TCP/IP protocol must be installed to communicate through HTTP/HTTPS messages.

5. Accuracy of the information of the user is the responsibility of the user itself.

6. User can give comments and feedback about his experience on the site.

3) USABILITY FOCUS

3.1) Actor Profile

2 Principal Actors are **Users** and **Administrator (**Site Owners**)**.

4) SPECIFIC REQUIREMENTS:

Specific requirements are specified from developer's point of view. Here we specify the requirement in a detailed format so that it becomes easy for designer to design the system. These requirements include input, output and functions performed.

4.1) EXTERNAL INTERFACE REQUIREMENTS:

4.1.1 User Interfaces:

The interface must be easy to understand. The user interface includes:

- Screen Formats /Organization

The screen will be the first to be displayed which will allow the users to choose either of the two options, viewing, writing or reading other's blog or article.

- Data Format

The data entered by the users will be alpha numeric.

- Send Messages

When there are some exceptions raising error like entering invalid details, then error messages will be displayed prompting the users to re-enter the details.

4.1.2 Software Interfaces:

Supporting **Windows**. **Mac**, **Linux,** and **OS** are not supportable. **Database software's** are **Oracle**, **SQL Server Management**. **Hashtags** or recent mentions of usernames containing a dot do not return search results.

4.1.3 Hardware Interfaces:

- Windows.
- A browser which supports CGI, HTML & JavaScript.

4.1.4 Communication Interfaces:

This project supports all types of web browsers.

5) SYSTEM FEATURES:

5.1) DESCRIPTION and PRIORITY

The **ONLINE BLOG BUILDER SITE** where a user can sign up by entering his sitename and he will be given a 2 paged blog website in which he can write Articles and blogs.
People can read each other's blogs and articles by going to their specific site address. Of course, this project has a high priority because it is very difficult to do this kind of blogs and articles with conventional ways. Instead, we are providing all the products and facilities by doing 1 click.
It is important for the system to have a feature to keep things in **order** and **up to date**. The system should be **responsive** and **organized** to guide and communicate to the users properly.

5.2) STIMULUS/RESPONSE SEQUENCES

Users should be able to keep their **record** and keep **track** of their **blogs**. The customers should be able to get **notified by e-mail / SMS** service after confirmation. Proper **response** and **stimulus** should be there.

6) FUNCTIONAL REQUIREMENTS:

- **Registration**

  If a User wants to generate or edit a blog, then he/she must be registered, an unregistered user can't write, generate or download an article.

- **Login**

  User logins to the system by entering valid user id and password for using the Blog Website.

- **Blog Editor/Writer**

  In which the user will be able to perform CRUD operations for their desired Text.

- **Blog Viewing**

  Normal users meaning not just site owners can read each other's work.

- **Site Editor**

  Not just for writing Blogs, the user will also be given the flexibility to customize their site however they please.

7) NON-FUNCTIONAL REQUIREMENTS:

7.1) Performance Requirements

- Optimization is a key feature of the Blog Builder

- The maximum loading time the site can take will be at the time of site creation for a user

7.2) Safety Requirements

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a disk crash, the recovery method restores a past copy of the database that was backed up to archival storage (typically tape) and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed-up log, up to the time of failure.

7.3) Security Requirements

The system uses SSL (secured socket layer) in all transactions that include any confidential customer information.

The system must automatically log out all customers after a period of inactivity.

The system should not leave any cookies on the customer's computer containing the user's password.

The system's back-end servers shall only be accessible to authenticated administrators.

Sensitive data will be encrypted before being sent over insecure connections like the internet.

7.4) Software Quality Attributes

7.4.1 CORRECTNESS: The product will reach the correct destination.

7.4.2 Accessibility: The system will be a web-based application it is going to be accessible on the web browser. The system shall provide handicap access. The system shall provide multi-language support.

7.4.3 Supportability: The source code developed for this system shall be maintained in configuration management tool.

7.5) Quality Requirements

7.5.1) Reliability

The system provides storage of all databases on redundant computers with automatic switchover.

The reliability of the overall program depends on the reliability of the separate components. The main pillar of the reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes.

Thus, the overall stability of the system depends on the stability of container and its underlying operating system.

7.5.2) Availability

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the downtime of the server on which the system runs. In case of an of a hardware failure or database corruption, a replacement page will be shown. Also, in case of a hardware failure or database corruption, backups of the database should be retrieved from the server and saved by the administrator. Then the service will be restarted. It means 24 X 7 availability.

7.5.3) Maintainability

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the program will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently.

7.5.4) Portability/Compatibility

The end-user part is fully portable and any system using any web browser should be able to use the features of the system, including any hardware platform that is available or will be available in the future.

An end-user is using this system on any OS; either it is Windows or Linux.

The system shall run on PC, Laptops, and PDA etc.

8) APPENDICES:

8.1) USE CASE NARRATIVES

1)	2)
Use Case: Login **Actors:** Admin, User **Type:** Primary and essential **Description:** Initiated when a user attempts an action that is restricted. The user is then prompted to enter in their username and password in order to proceed.	**Use Case**: Signup **Actors:** User **Type:** Primary and essential **Description:** The user will be allowed to create a site on the OFFICIAL BLOG BUILDER setup.
3)	**4)**
Use Case: Browse Templates **Actors:** Admin, User **Type:** Primary and Essential **Description**: All the different templates to write an article or blog is listed on a single page.	**Use Case:** Read Blogs **Actors:** User **Type:** Primary and Essential **Description:** Allows the Users to read and visit other writers site.
5)	6)
Use Case: Add New Templates **Actors:** Admin **Type:** Primary and Essential **Description:** Allows the Manager to add an additional latest templates from which the multiple users can take advantage. **Includes**: None **Extends:** None	**Use Case:** Send Email **Actors:** System **Type:** Secondary **Description:** This is called by a variety of other use cases whenever an email needs to be sent. **Includes:** None **Extends:** Add Promotion

| **Use-Cases:** Admin must have completed the Log In the use case | |