**SOFTWARE**

**REQUIREMENTS SPECIFICATION**

**For**

# Blog website

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### Introduction

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### The Online Blogging System has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate, and in some cases reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need for the company to carry out operations in a smooth and effective manner. This application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. By using this can lead to error free, secure, reliable and fast management system

The main aim of this application is to provide a hassle-free accessing of the posted blogs, entries, topics etc. It also used for posting the blogs, editing the blogs, deleting the posted blogs etc. It is also used for viewing and posting the others one9s blogs/posts. Every organization, whether big or small, has challenges to overcome and managing the information of Idea, Blogs, Entries, Content, Views. Every Online Blogging System has different Blogs needs therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

#### 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.

By developing the Blog Website, we aim to:

1. A blog website the purpose of creating a relationship between a company and its audience. It can also provide knowledge on relevant topics, increase engagement and traffic to your website, and create a community.
2. If done correctly, it can help create a thriving foundation for corresponding social media platforms.
3. Provides the post viewing facility for everyone. Online Blogging System also manage the Content details online for Entries details, Views details, Blogs.
4. It tracks all the information of Idea, Content, Entries etc. Manage the information of Idea. Shows the information and description of the Blogs, Topics.
5. To increase efficiency of managing the Blogs, Topics. Manage the information of the Blogs. Editing, adding, posting and updating of Records.
6. The modern blog evolved from the online diary, where people would keep a running account of their personal lives.

#### 1.2 Document Conventions

* Entire document should be justified.
* Convention for Main title

Font face: Times New Roman



Font style: Bold

Font Size: 14

* Convention for Sub title

Font face: Times New Roman



Font style: Bold

Font Size: 12

* Convention for body

Font face: Times New Roman



Font Size: 12

#### 1.3 Scope of Development Project

The scope of this development project People will likely be interested in content forms that can be easily consumed.

* Future blogs are expected to include videos, vlogs, and other forms of visual content.
* People always looking for new techniques and words. Give our visitors a new way of reading and not boring content.
* he future of blogging in India is full of potential. By understanding the trends that are shaping the industry, bloggers can position themselves for success.
* Content refers to any form of information, media, or creative material that is produced and shared to convey a message or provide value to an audience.
* loggers have a unique opportunity to cater to this growing digital-savvy audience and monetize it.

#### 1.4 Definitions, Acronyms and Abbreviations

JAVA -> platform independence

SQL -> Structured query Language

ER -> Entity Relationship

UML -> Unified Modelling Language

IDE -> Integrated Development Environment

SRS -> Software Requirement Specification

ISBN -> International Standard Book Number

IEEE ->Institute of Electrical and Electronics Engineers

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### Overall Descriptions

The main aim of this application is to provide a hassle-free accessing of the posted blogs, entries, topics etc. It also used for posting the blogs, editing the blogs, deleting the posted blogs etc. It is also used for viewing and posting the others one9s blogs/posts. Every organization, whether big or small, has challenges to overcome and managing the information of Idea, Blogs, Entries, Content, Views. Every Online Blogging System has different Blogs needs therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

**2.1 Product Perspective**

Blogging system database system stores the following information.

1. **Blog description:**

It includes blog content, date and time for blog, author of blog etc.

1. **User details:**

It includes user name, password, email-id, blogs etc.

* 1. **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).
  1. **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.

* 1. **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.

* 1. **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.

* 1. **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.

1. **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
  1. **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
  1. **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.

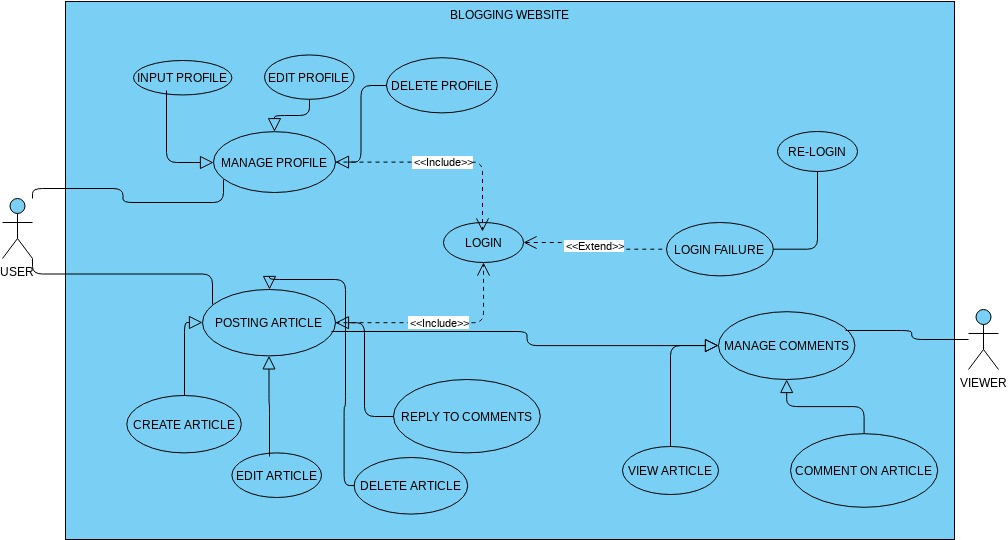
**4. System Features**

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 features 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: RDBMS (PostgreSQl)

Web based application

Appendix A:Glossary

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

**7.Class Diagram:**

