North South University

Department of Electrical and Computer Engineering

PROJECT PROPOSAL

Blog Platform

Course Name: Database Management System
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1 Introduction

Currently, 4.66 billion people worldwide are connected to the internet. The internet makes it possible to find information quickly, communicate with people worldwide, listen to music, watch a video, and much more. People surf the internet to gather the information they need using various search engines such as Google, Yahoo, and many more. People tend to look for information through the web because it is way more accessible, and data can find almost everything.

Over 2 billion blog posts are published every year. According to a recent survey, blog posts continue to be the most famous content format among content marketers. Each blogger brings their perspective, experience, and style to the blog post they write. Many bloggers feel strongly about an issue or topic. They are motivated to write about it to bring attention to a nee. Which might be a social issue or cause, a problem that needs to be fixed, a belief or a value that strongly or desires to help people.

One of the most common web searches is "how-to". The information we find on the web on "how-to" means someone who already faces the same problem as us. They take the initial step to publishing the solution on the web so that it helps others.

The blog gives us the freedom of speech where anyone can share their thought without fear. It gives other people motivation to do certain things or helps them to find a solution they have been looking for.

2 Objective

Our goal is to develop an open-source blog platform for free blog content publication. Publishing a blog is not easy because of technical difficulties in the blog website.

The majority of blog users are of different ages, particularly young individuals who wish to share their personal experiences. Most people don't know how things operate, which makes publishing material a far more critical problem. We will build an easy-to-use content management system (CMS) to allow the content writer to organize the articles, publish and maintain the blog as they like. We will design the web interface which meets the WCAG 2.1 AA standard.

At the end of the project, we will achieve a platform that is easy to use, publish and maintain the blog.

3 Target Audience

Our primary target audience is young people who want to share their views and experiences with others. It will encourage people to contribute ideas, dreams, experiences. Users may post any topics, including sports, technology, entertainment, money, and many other themes on the internet.

4   Value Proposition

The blog platform is a professional publishing platform built on a modern technology stack designed for general users who need power, flexibility, and performance. Blog platform comes with powerful features built directly into the core software that can be customized and configured based on each user's needs. It has the rich editor that every writer wants, but it delivers far more power than you would expect under the hood. It will come with world-class SEO and everything a writer needs to ensure that the content shows up in the search index quickly and consistently.

5   Feature Specifications

The website allows the writer to publish their article effortlessly. It will enable a seamless reading experience for the general reader. The user can have both roles as reader and writer. Here is the main key feature of the blog platform,

- Guest Users can only read articles.
- To interact with the article, such as like and comment, the user must have an account.
- Signed users can publish an article
- User has a general dashboard to see the activity result of their published articles
- The writer has access to a rich editor inside the dashboard for publishing.
- Build-in SEO and Meta Tags
- Articles can Create, Read, Update, and Delete
- Admin have all access to monitor the published content and comments
- Admin can manage and organize the users.

6   Tools & Resources

To develop the blog platform, we will use various tools and technologies. We divide those tools and technologies into four categories. Those are,

Design

We will design a UI UX and wire frame of the website to understand better and create entity relationships for the database design.

- Figma
- DrawSQL

Front-End Technologies

It is also known as the Client-side rendering happens on the browser. It's everything the user sees and interacts with.

- HTML
- CSS / SCSS
- JavaScript

Back-End Technologies

It, also known as server-side rendering, happens on the server and the database. It works behind the scenes to power the fancy features users interact with on the client-side.

- Laravel PHP Framework
- MySQL
- Apache Webserver

Version Control

It also knows as source control, which is used for tracking and managing changes to software code.

- Git
- GitHub
- Git Kraken

7 Time-Plan

The table 1 is list of the deliverable with specific dates so that we can make a concerted effort to achieve them.

Serial	Week	Description
Task 1	Week 5	Requirements Analysis, Features & Relationships
Task 2	Week 7	Design ER Diagram & Relations
Task 3	Week 8	Front-End Demonstration & Query Processing
Task 4	Week 11	Back-End Development and Improvement
Task 5	Week 12	Final Presentation & Submission

Table 1: Project Time Plan

8 Expected Outcome

At the end of Week 12, we finally show showcase an easy-to-use blog platform for writers. It will have all the built-in features a writer need and easy to organize their articles without any worries.