Project Report

On

BLOGGING PLATFORM

Diploma in Advance Computing(C-DAC)
from

C-DAC, HYDERABAD

Guided by:

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ACKNOWLEDGEMET

This project "**BLOGGING PLATFORM**" was a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC HYDERRABAD).
We are very glad to mention the name of *Mr. Kale Sandip Shivaji* for his valuable guidance to work on this project. His guidance and support helped me to overcome various obstacles and intricacies during the course of project work.

Our heartfelt thanks goes to *Mr. M . Kumar* (Course Coordinator, C-*DAC*) who gave all the required support and kind coordination to provide all the necessities and extra hours to complete theproject and throughout the course up to the last day here in C-DAC Hyderabad.

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1. Introduction of Project:

A blog, a complete weblog or webzine, an online journal in which an individual, group or business submits entries about their actions, thoughts, or beliefs. Blogs primarily act as news filters, collecting various online sources and adding short comments and internet links. Other blogs focus on providing original material. Some blogs focus on providing original material. Blogging is the process of writing blog material. Although content is mostly written, images, audio, and video are important elements of many blogs. The "blogosphere" is the online world of blogs. This report is an overview of how to build a blog website using the MERN stack

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.

2. Product Overview and Summary

2.1 Purpose:

The main purpose of the Project on Online Blogging System is to manage the details of Blogs, Idea, Topic, Entries, Views. It manages all the information about Blogs, Content, Views, Blogs. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the Blogs, Idea, Content, Topic. It tracks all the details about the Topics, Entries, Views.

2.2 Scope:

The primary responsibility of a blogger is to create fresh and authentic content for their target audience. Bloggers usually present their content as a series of stories to make the content more understandable to readers.

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2.3 Feasibility Study

Feasibility is determination of whether a projects worth doing or not. Before actually recommending the new system it is important to investigate if it is feasible to develop the new system.

Before developing and implementing a system we have sure that our system is feasible in the following ways:

1. **Technical Feasibility.**
2. **Operational Feasibility.**

- **Technical Feasibility:**

In the type of feasibility study, the system analyst has to check whether it is possible or not to develop the requested system with availability of manpower, software, hardware, etc. The system which we run in Linux as well as windows platform and hence are suitable for the end-user. The system is technically feasible because it does not require too many resources and runs with the browser. A proof of concept was implemented to verify the technical feasibility to retrieve data from various APIs.

- **Operational Feasibility:**

In this type of feasibility study the operation implementation of the system is considered. Checking is done regarding whether it is feasible for the users to use the application. Thus the proposed system is said to be operationally feasible only of the end users are able to understand the system clearly and correctly and can use the system with ease and with the minimum training.

3. Overall Description:

3.1 Project Features

The project features basic **CURD** operations such as
Create blog posts: Describes how to create a blog post using Native or Fluent API.
Query blog posts: Describes how to query for a blog post based on its Id using Native or Fluent API.
Modify blog posts: Describes how to modify a blog post using Native or Fluent API.
Delete blog posts: Describes how to delete a blog post using Native or Fluent API

3.2 Technology Used

BACK END
MongoDB
Express.js
Node.js

FRONT END
React
Axios
Redux
Material-UI

BACKEND IMPLEMENTATION

Nodejs: an open source, cross-platform runtime environment for JavaScript is Node.js. It is a well-liked tool for practically every project kind! The core of Google Chrome, the V8 JavaScript engine, is run by Node.js outside of the browser. Node.js can be very performant because of this. Without starting a new thread for each request, a Node.js application operates in a single process. Blocking behaviour in Node.js libraries is the exception rather than the rule since libraries in Node.js are typically created using non-blocking paradigms and because Node.js includes a set of asynchronous I/O primitives in its standard library that prevent JavaScript code from blocking.

Express.js: Express.js is a minimal and flexible Node.js web application framework. It simplifies the process of building robust and scalable server-side applications. You can create RESTful APIs and handle routing, middleware, and authentication with Express.

Mongo DB Cloud Services

MongoDB Atlas is a multi-cloud developer data platform. At its core is our fully managed cloud database for modern applications. Atlas is the best way to run MongoDB, the leading non-relational database. MongoDB's document model is the fastest way to innovate because documents map directly to the objects in your code.

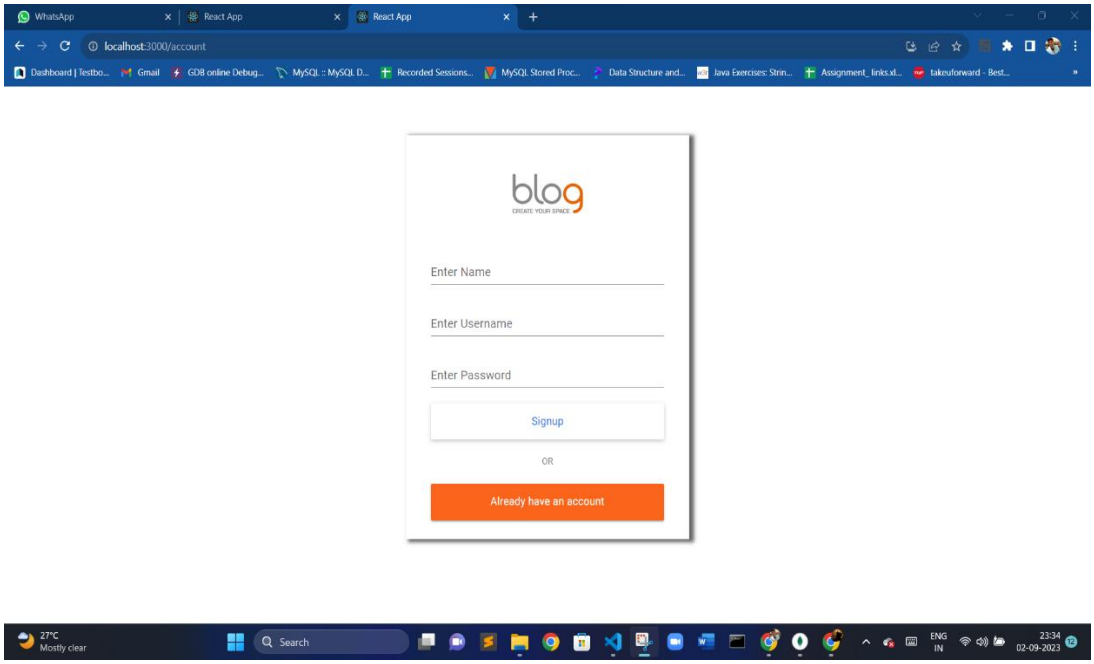
FRONTEND IMPLEMENTATION

React: React is a widely-used JavaScript library for building user interfaces. It's a common choice for the front-end of MERN applications due to its component-based architecture and ecosystem of libraries and tools.

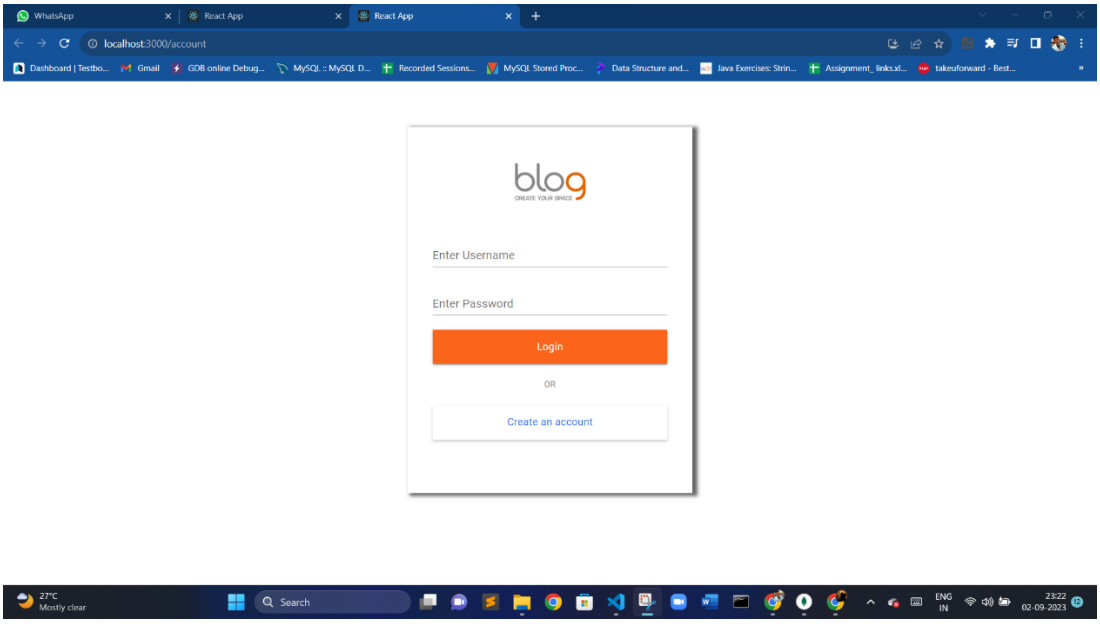
Improved performance: React uses Virtual DOM, thereby creating web applications faster. Virtual DOM compares the components' previous states and updates only the items in the Real DOM that were changed, instead of updating all of the components again, as conventional web applications do.

Axios: A promise-based HTTP Client for the browser and node.js is called Axios. It can run in both a browser and Node.js using the same code because it is isomorphic. The client (browser) uses XMLHttpRequests, whereas the server uses the built-in node.js http module.

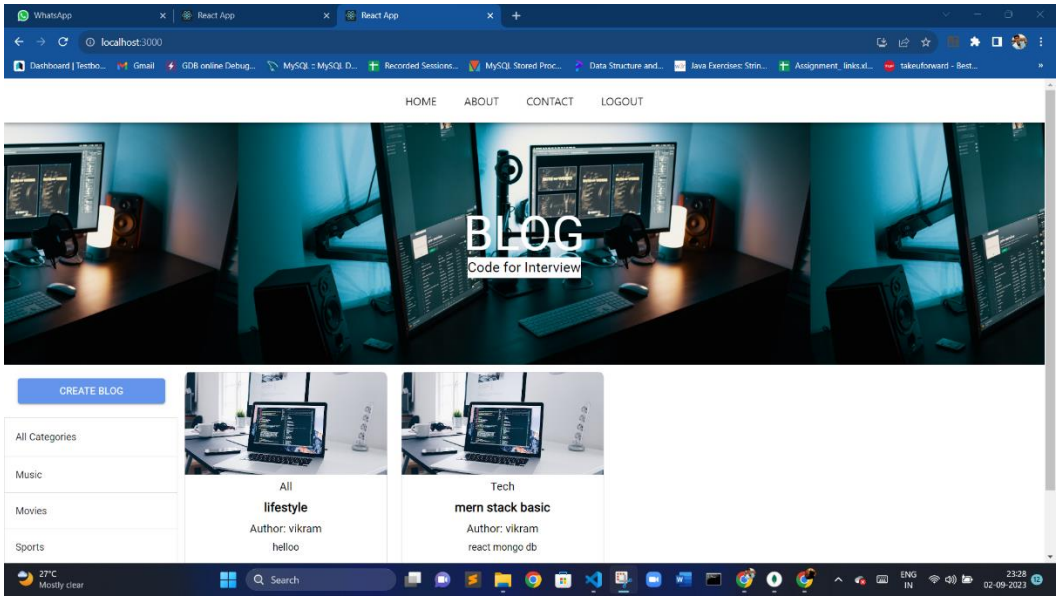
4. INTERFACE UI:



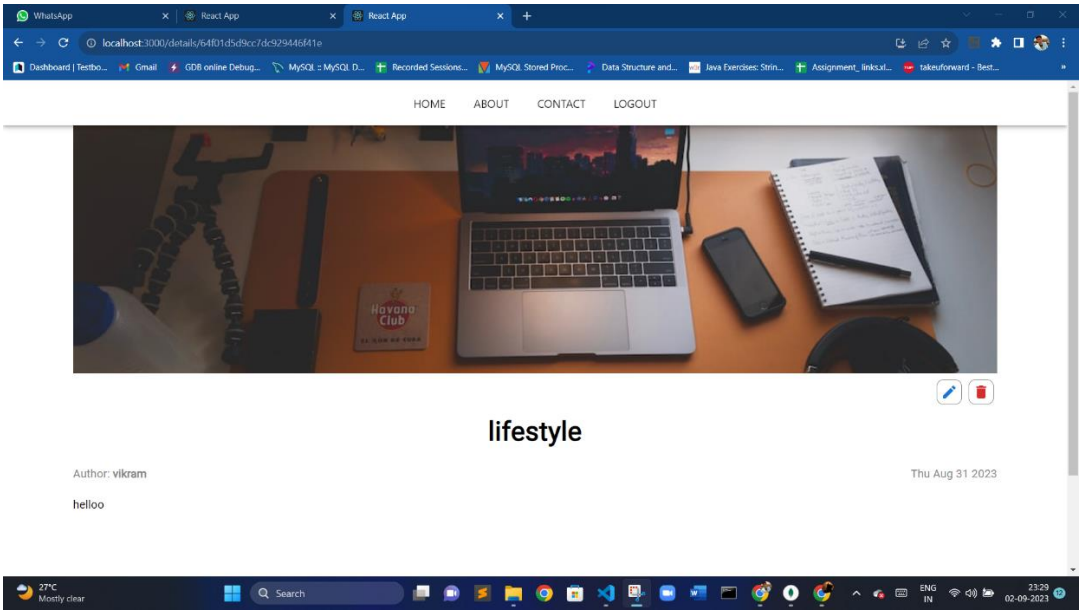
Creating an account



Login an account



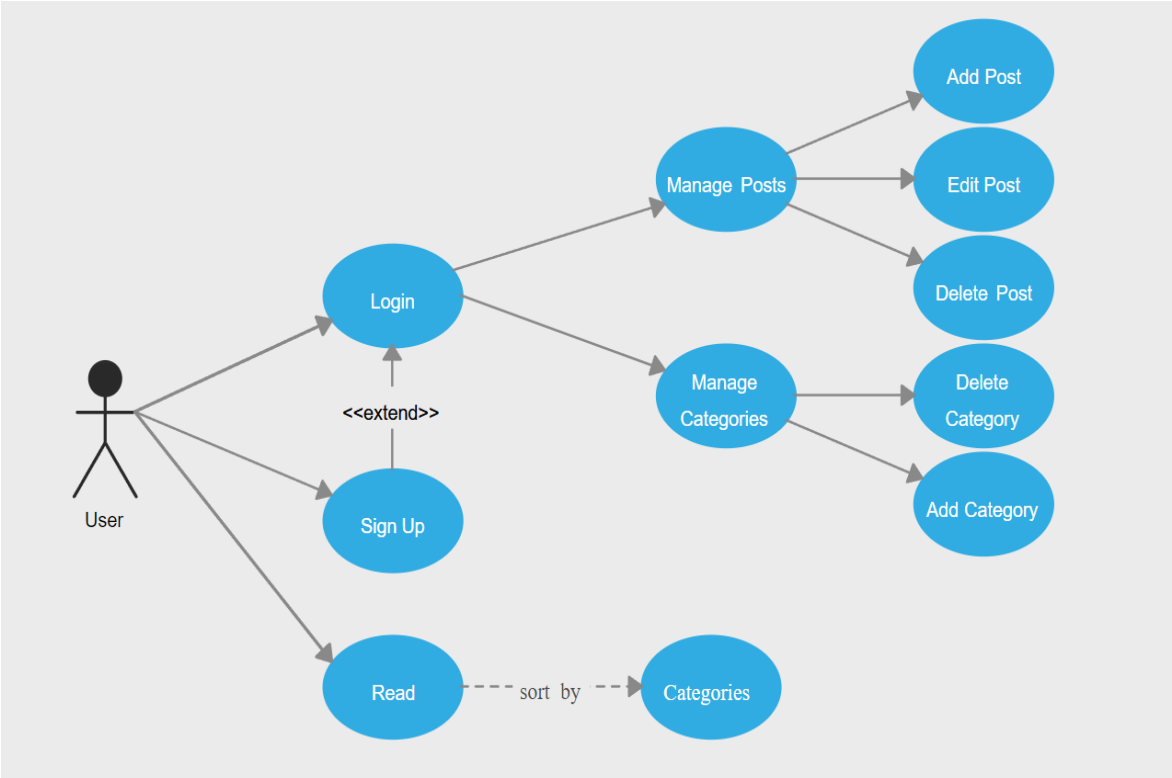
Home page of Blog Website



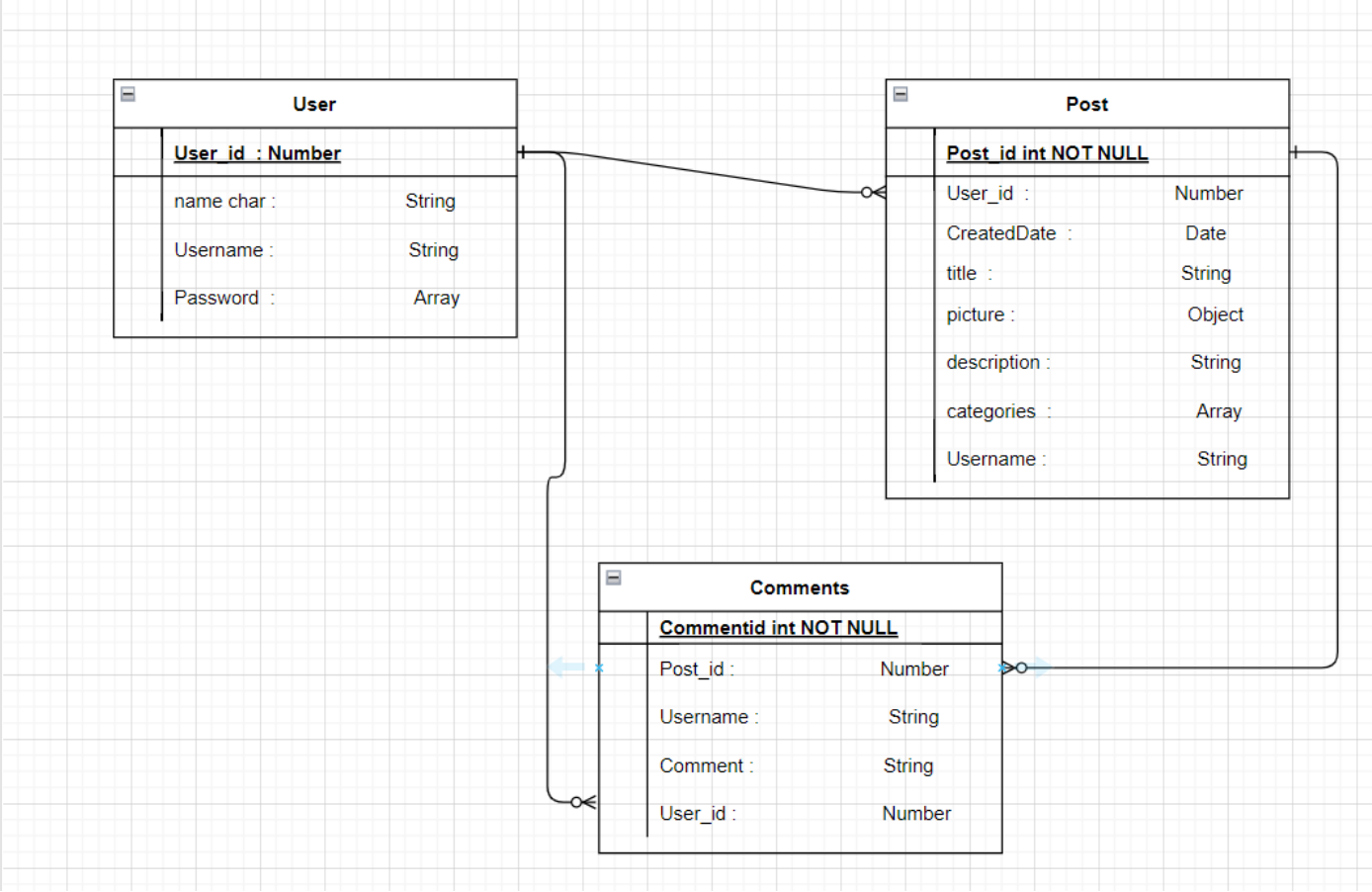
Creating/updating a Blog

5.Project Methodology

The MERN Stack (MongoDB, Express, React, and Node) was used to create a blog website where visitors can write blog entries on their personal, professional, or other interests. If a user account does not already exist, he or she must register one before posting a blog to the website; otherwise, he or she can only browse the postings that are alreadythere. The website also offers the option to sort blog posts by username.



6. Database Diagram



7. Conclusion

In this project the blog website can benefit us as a consumer through valuable information of around the world. We are able to know fundamental concepts and can work on MERN Stack, gain a broad understanding of web, network , server, client, cookies, session, database, front end libraries and back end libraries and are able to create meaningful website. MERN Stack provides developers the huge amount of libraries and made easy to build a website . We can create powerful and professional websites by using latest MERN stack.