GLA University

Department of Computer Science & Application

Institute of Engineering & Technology

TOPIC: FULLSTACK PROJECT ON BLOG WEBSITE

Submitted By

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Submitted To

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(Technical Trainer)

DECLARATION

I hereby declare that the work which is being presented in Project '**Blog Website**', in partial fulfilment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our own work carried under the Mentorship of Mr. Akash Kumar Choudhary, Technical Trainee, Dept. of CEA, GLA University.

The contents of this synopsis, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

Sign: ………………

Name of candidate: Sunishka Sharma

ACKNOWLEDGEMENT

It gives me immense pleasure to present the synopsis of the B.Tech. Full Stack project undertaken during B. Tech III Year. I owe a special debt of gratitude to Mr. Akash Kumar Choudhary, Technical Trainer, for providing me with an encouraging platform to develop this project, which thus helped me in shaping my abilities towards a constructive goal, and for his constant support and guidance to our work.

His sincerity, thoroughness, and perseverance have been a constant source of inspiration for me. I believe that he will enlighten me with all his extensively experienced ideas and insightful comments at different stages of the project & also will teach about the latest industry-oriented technologies. I would like to acknowledge the contribution of all faculty members of the department for their kind guidance and cooperation.

Sunishka Sharma (201500717)

CERTIFICATE

This is to certify that the project entitled '**Write It Up**', carried out in Full Stack Project, is a bona fide work by Sunishka Sharma and is submitted in partial fulfilment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

Mentor: Mr. Akash Kumar Choudhary

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INTRODUCTION

Abstract :-

"Write It Up" is a versatile blogging platform that caters to a wide range of interests and topics. Whether you're a seasoned blogger or just starting out, "Write It Up" offers a user-friendly and engaging platform to share your thoughts and ideas.

The platform covers a broad spectrum of topics, including lifestyle, technology, entertainment, politics, finance, health and wellness, and many more. The blog features articles, opinion pieces, reviews, and how-to guides, providing readers with a wealth of informative and entertaining content.

With a community of diverse bloggers, readers can engage in meaningful discussions, share ideas, and build connections. "Write It Up" is a space for writers to share their perspectives and experiences on various topics, encouraging open and inclusive conversations.

The platform is easy to use, with intuitive features and customizable templates to create a unique and personalized blog. " Write It Up " is an ideal platform for aspiring writers, bloggers, and anyone looking to express themselves through writing.

As a constantly evolving platform, " Write It Up " strives to keep up with the latest trends and topics, providing readers with up-to-date and relevant content. Join our community today and explore the limitless possibilities of blogging.

Introduction :-

It is an internet web application designed to enhance the writing experience and share it with the world. Different users can put in their comments and concerns, in order that it's well informed. This web application provides its user to write, edit and read blogs. The editing permissions are bound to author's side while any other user can comment on it for any appreciation or improvement.

The website offers different genres for writing so that it becomes easy for the user to filter blogs. Each blog can have a cover photo which will make a user feel attractive towards it. Many writers want to show up but hesitate to do so because of the fear of judgements. The website will be inclined to let every user be given a chance write without judging their blogs on any parameters.

SYSTEM REQUIREMENTS

Hardware Requirements :-

The Website will smoothly run or operate on any system with –

- Processors above or equal to Intel core i3.
- Any system with Ram (512 MB or higher).
- System with any operating system.
- A web browser is needed.
- Active Internet Connection (At least 120kbps)

Software Requirements :-

Front End :-

HTML - HTML stands for Hyper Text terminology HTML is that the standard terminology for creating sites HTML describes the structure of an internet page HTML consists of a series of elements HTML elements tell the browser the way to display the content.

CSS - CSS stands for Cascading Style Sheets CSS describes how HTML elements are to be displayed on screen, paper, or in other media CSS saves tons of labour. It can control the layout of multiple sites all directly External stylesheets are stored in CSS files.

Java Script - JavaScript is the world's most popular programming language. JavaScript is that the dominant client-side scripting language of the online. JavaScript is easy to learn. JavaScript, often abbreviated JS, may be a programing language that's one among the core technologies of the planet Wide Web, alongside HTML and CSS.

Back End :-

Node.JS - Node.js is a popular open-source, cross-platform, back-end JavaScript runtime environment. It is built on the Chrome V8 JavaScript engine and enables developers to create highly scalable and fast network applications. Node.js uses an event-driven, non-blocking I/O model that makes it ideal for building real-time applications, such as chat applications and online games. Node.js offers a vast library of pre-built modules, making it easier for developers to add functionality to their applications. Node.js is also highly flexible, as it can run on a variety of platforms, including Linux, macOS, and Windows.

Express.JS - Express.js, or just Express, may be a rear web application framework for Node.js, released as free and open-source software under the MIT License. It can be used for developing web applications and APIs. It has been called the standard server framework for Node.js. The original author, TJ Holowaychuk, described it as a Sinatra-inspired server, meaning that it is relatively minimal with features available as plugins. Express is that the back-end component of popular development.

Passport.JS - Passport is authentication middleware for Node.js. Extremely flexible and modular, Passport are often unpretentiously dropped in to any Express-based web application. A

comprehensive set of strategies support authentication employing a username and password, Facebook, Twitter, and more.

Mongoose - Mongoose is an Object Data Modelling (ODM) library for MongoDB and Node.js and it manages relationships between data, provides schema validation, and is employed to translate between objects in code and therefore the representation of these objects in MongoDB.

DataBase :-

MongoDB - MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with discretionary schemas. MongoDB is originally developed by MongoDB Inc. and licensed under the Server Side Public License.

IDEA

A blog website can help increase visibility and exposure for your blog, making it easier for people to find your content through search engines and social media. Consistently publishing high-quality content on your blog website can help you establish yourself as an authority in your niche or industry, which can increase your credibility and boost your reputation. It can foster a community of like-minded people who share common interests, providing a platform for interaction, discussion, and collaboration. It is a cost-effective way to reach and engage with your target audience, compared to other forms of advertising or marketing.

OBJECTIVE

Overall, the objective of a blog website is to provide a platform for individuals and businesses to create and share valuable content, engage with their audience, and establish themselves as experts in their field. This data is stored as per each user. One of the major aspect of the website is to keep the data of the user private. This website is packed with security features to meet the expectations of privacy and security.

MODULE DESCRIPTION

Here are some of the main modules that make up the '*Write It Up*':

Authentication :- This module allows users to register for an account, log in, and log out. It also provides security features to ensure that only authorized users can access certain features.

Blog Management :- This module allows users to add, edit, and delete blogs. Users can also upload photos and add descriptions to the blog.

Search & Filtering :- This module allows users to search for blogs based on various genre such as technology, travel, food, etc. Users can also filter the search results based on specific requirements.

Author Details :- This module allows users to view the name of the author and data and time of publish which can help to know about different author's blogs and compare them.

Social Features :- This module allows users to follow each other, view each other's profiles, and leave comments on blogs. This helps create a sense of community and encourages users to share their experiences with each other.

AVAILABILITY

The project will be completed over three phases:- planning, design, and development. The expected start date for the project is March 1, 2023, and the estimated completion date is April 5, 2023. The planning phase is expected to take one weeks, from March 1 to March 7, during which we will plan the project cycle & identify the problem statement more precisely. Then design phase will follow, starting on March 8 and lasting for one week until March 15, during which the team will develop wireframes and Figma designs for the website. Finally, the development phase will begin on March 16 and run for about three weeks until April 3, during which the team will code and implement the new website design.
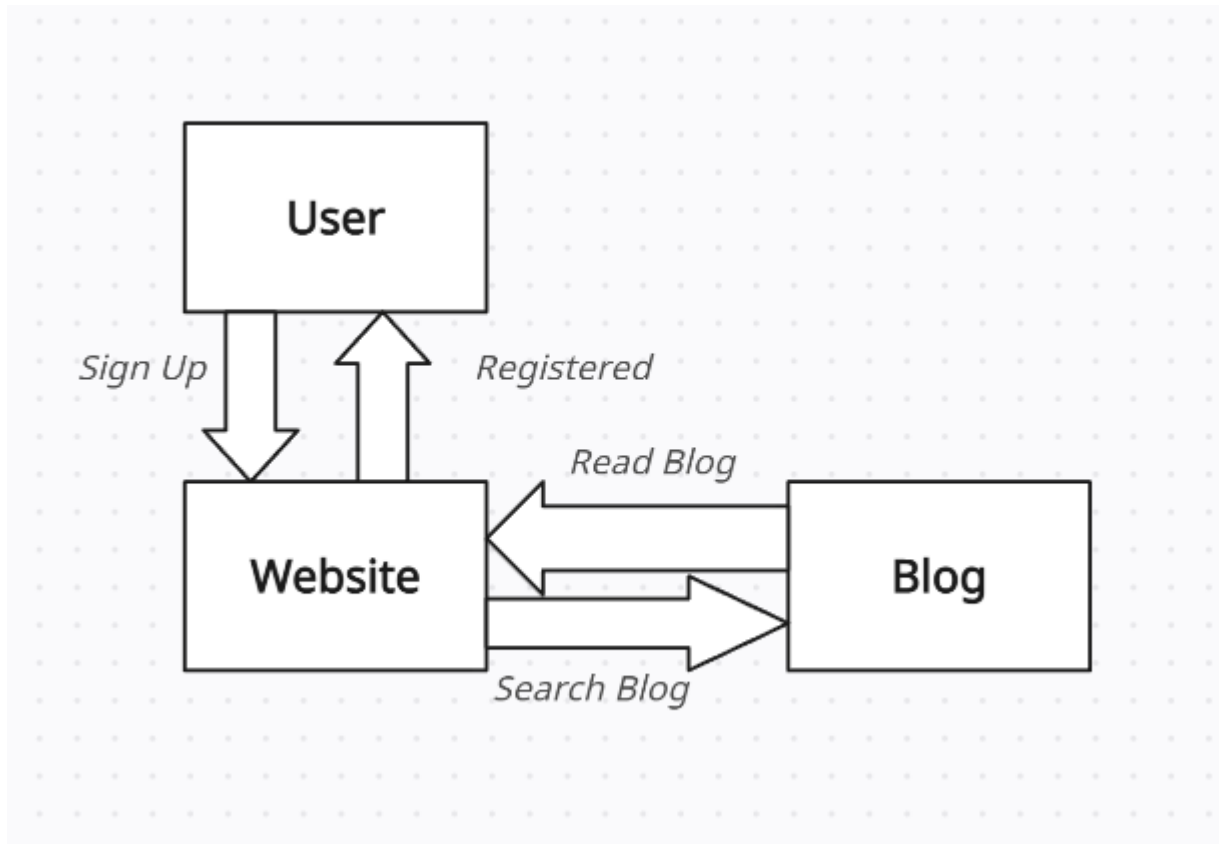
During whole development phase the project will live on GitHub through which the live progress of project can be monitor.
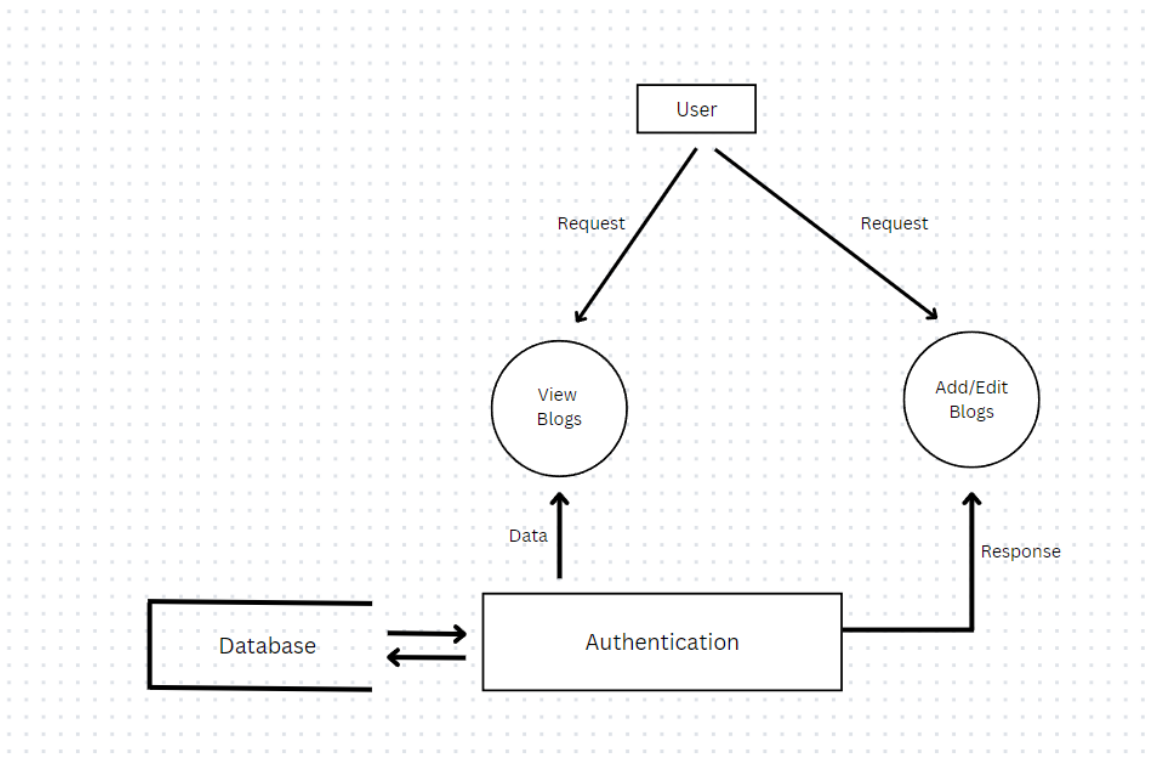
FUTURE SCOPE

This project can be hosted on the internet for public use. The need to improve the User Interface and make it more interactive and hassle free. Keeping the security till date could be a challenge to maintain. Hence, improving the overall security of the system and all users. As social media continues to grow in popularity, blog websites are likely to become even more integrated with social media platforms. This will enable bloggers to share their content and engage with their audiences more effectively. With advancements in technology, blog websites are likely to become even more interactive and engaging, with features such as video content, live streaming, and virtual reality becoming more common. As blog websites continue to grow in popularity, there will be more opportunities for bloggers to monetize their content through advertising, sponsorships, affiliate marketing, and other means.
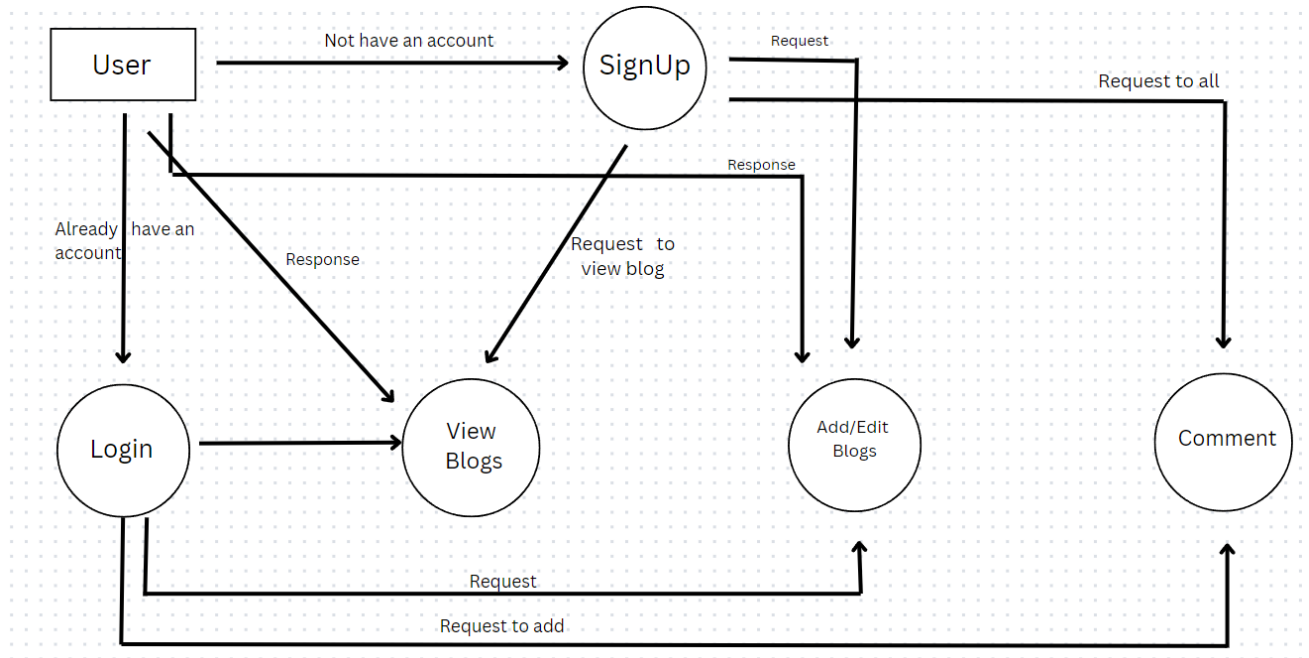
DATA FLOW DIAGRAMS (DFD)

DFD Level - 0

DFD Level -1

DFD Level -2

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