

GLA BLOGSPOT

MINI PROJECT – II

SYNOPSIS



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Acknowledgement

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini project undertaken during B.Tech III Year. This project is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals. We owe special debt of gratitude to ma'am **Ms. Ruchi Talwar**, Technical Trainer, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for her constant support and guidance to our work.

Her sincerity, thoroughness and perseverance has been a constant source of inspiration for us. We believe that she will shower us with all her extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies. We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

ABSTRACT

Welcome to our blog website GLA BLOGSPOT! Here, you'll find a wide range of articles covering a variety of topics, from current events to entertainment to technology and everything in between. Our team of writers and contributors is dedicated to bringing you engaging and informative content that will keep you entertained, informed, and inspired.

Whether you're looking for in-depth analysis of the latest political developments, reviews of the hottest movies and TV shows, or tips and tricks for getting the most out of your technology, our blog has something for everyone. We pride ourselves on providing content that is both entertaining and informative, with a focus on quality writing and thoughtful analysis.

In addition to our regular articles, we also feature guest posts from experts in various fields, providing unique insights and perspectives on the issues that matter most. And our interactive features, such as polls and quizzes, allow readers to engage with our content in new and exciting ways.

So come join our community of readers and writers, and discover the world of ideas and entertainment that awaits you on our blog!

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INTRODUCTION

Welcome to GLA Blogspot, the online destination for engaging and informative content on a wide range of topics. Our team of writers and contributors is dedicated to bringing you the latest news, insights, and opinions on everything from current events to technology to entertainment.

At GLA Blogspot, we believe that everyone has a story to tell, and we're here to help you share yours. Whether you're an expert in your field or a passionate hobbyist, our blog provides a platform for you to share your knowledge and experiences with a wider audience.

Our blog features a variety of content formats, including articles, images, podcasts, and more, allowing us to deliver information and entertainment in the way that works best for you. And with regular updates and new content added daily, there's always something new to discover on GLA Blogspot.

So whether you're looking for news and analysis on the latest events, advice on how to pursue your passions, or simply a good story to read, we invite you to explore GLA Blogspot and join our community of readers and writers.

OBJECTIVE

The objective of GLA Blogspot is to create a dynamic online platform where people from all walks of life can share their knowledge, insights, and experiences on a wide range of topics. By providing a space for writers, researchers, and experts to publish their work, we aim to create a vibrant community of readers and writers who engage with each other in meaningful and productive ways.

Motivation

We believe that there is a wealth of untapped knowledge and expertise out there, waiting to be shared with the world. By providing a platform for people to share their stories, insights, and experiences, we can help to unlock this potential and create a more informed and engaged society. We also believe that everyone has something valuable to contribute, regardless of their background or level of expertise, and we want to create a space where all voices can be heard and respected.

PROBLEM STATEMENT

Despite the abundance of information and entertainment available online, it can be difficult for individuals to find high-quality, trustworthy content that speaks to their interests and concerns. Many websites are driven by profit or political agendas, and it can be hard to know who to trust or where to turn for reliable information. GLA Blogspot seeks to address this problem by providing a platform for individuals to share their knowledge and perspectives in a supportive and collaborative environment, free from the biases and limitations of traditional media.

SOFTWARE REQUIREMENTS

- HTML
- CSS
- JAVASCRIPT
- React JS
- Material UI
- Mongo DB
- Bootstrap
- Node JS
- Express JS
- JSON Web Token (JWT Authentication)

HARDWARE REQUIREMENTS

Processor: A multi-core processor (i5 or) would be recommended to handle the server-side processing requirements of Node.js and MongoDB.

RAM: Depending on the size and complexity of your application, you will need at least 8 GB of RAM.

Storage: You will need a minimum of 500 GB of storage space, with SSD being preferred over HDD for faster read and write speeds.

Graphics Card: If your application requires heavy graphics processing, such as video or image rendering, a dedicated graphics card would be recommended.

Operating System: MERN stack can be used on Windows, macOS, and Linux, so make sure you have a compatible operating system installed.

Network: A stable and reliable internet connection with sufficient bandwidth is necessary for hosting and deploying your application.

PROJECT DESCRIPTION

GLA Blogspot is a web application built using the MERN (MongoDB, Express, React, Node.js) stack. It is a platform for individuals to publish and share their knowledge, insights, and experiences on a wide range of topics.

The application is designed to be user-friendly and intuitive, with a clean and modern interface that allows users to easily navigate through articles, videos, podcasts, and other types of content. The home page features the latest and most popular content, with categories and tags that allow users to quickly find topics of interest.

Users can create an account and become contributors, allowing them to publish their own content and engage with other members of the community. The platform includes social features such as comments, likes, and shares, allowing users to interact with each other and build relationships around shared interests.

GLA Blogspot also includes powerful search and filtering capabilities, making it easy for users to find exactly what they are looking for. The search function allows users to search by keyword, category, author, and other parameters, while the filtering options enable users to narrow down their results by date, popularity, and other factors.

The application is designed to be scalable and secure, with robust backend architecture that can handle large amounts of traffic and user data. It is also built with best practices in data security and privacy, ensuring that user data is protected at all times.

Overall, GLA Blogspot is a comprehensive and powerful platform for content creation and sharing, providing a valuable resource for individuals looking to connect with others and share their knowledge with the world.

WORKING

The website offers the following functionality :-

- a. **User Registration and Authentication:** Users can register on the website using their email address or social media account. Once registered, they can create a profile, upload a profile picture, and manage their account settings.
- b. **Content Creation and Publishing:** Registered users can create and publish different types of content, including articles, videos, podcasts, and more. They can add images, videos, and other multimedia elements to their content to make it more engaging.
- c. **Content Discovery and Navigation:** The website offers a variety of options for users to discover and navigate content, including a home page that displays the latest and most popular content, a search function that allows users to search by keyword, category, author, and other parameters, and filtering options that enable users to narrow down their results by date, popularity, and other factors.

- d. **Social Features:** Users can engage with other members of the community by commenting, liking, and sharing content. They can also follow other users and receive notifications when new content is published.
- e. **Analytics and Insights:** The website provides analytics and insights to registered users, allowing them to track the performance of their content and gain insights into user behavior and preferences.
- f. **Mobile Optimization:** The website is optimized for mobile devices, ensuring that users can access and engage with content on-the-go

IMPLEMENTATION

Frontend

The frontend of GLA Blogspot can be implemented using the following technologies:

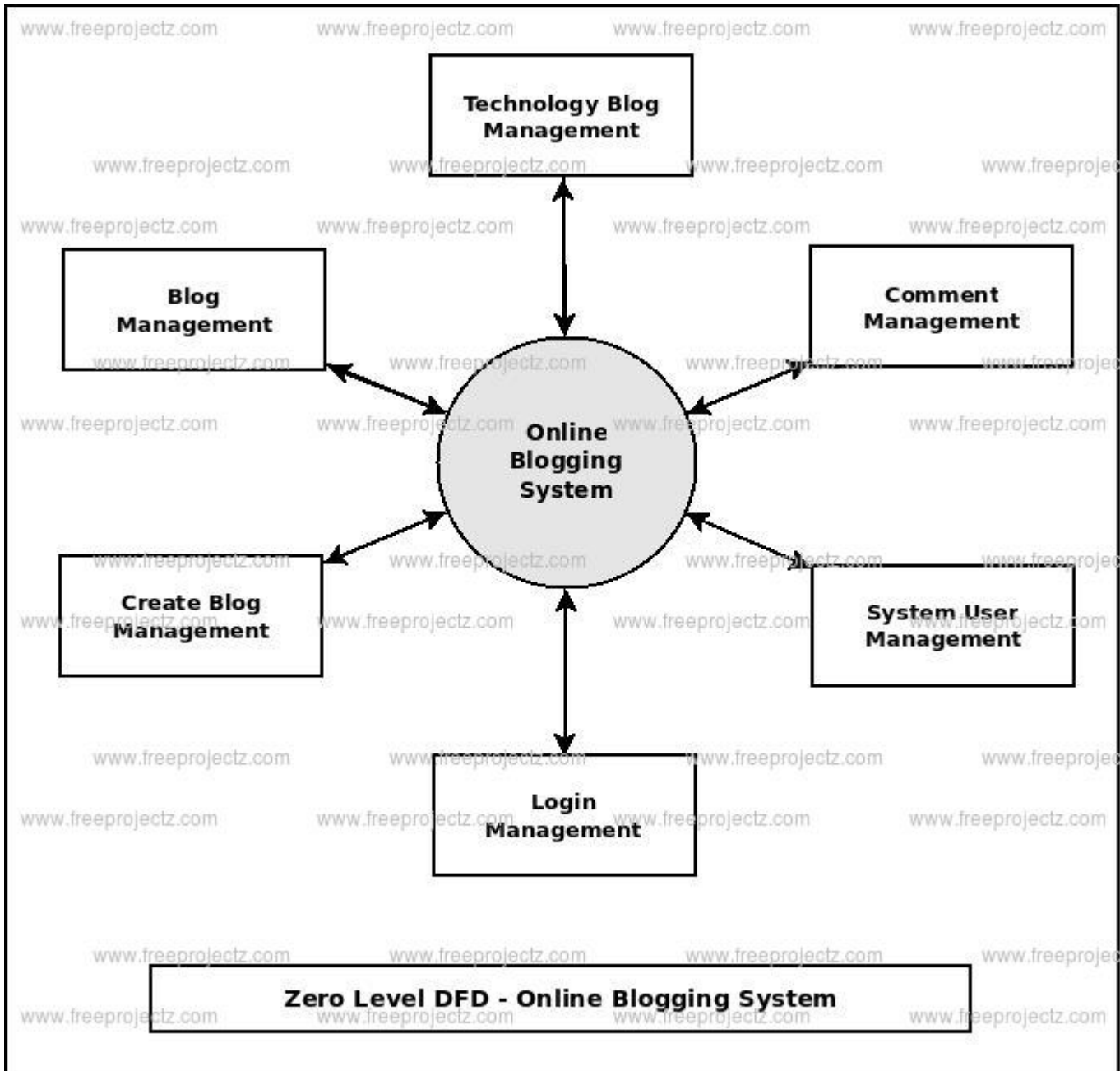
1. React: React is a JavaScript library used for building user interfaces. It allows for the creation of reusable UI components and efficient rendering of dynamic content.
2. Material UI: Material UI is a React-based UI framework that provides a set of pre-designed UI components and styles, making it easier to build responsive and mobile-first websites.
3. Redux: Redux is a predictable state container for JavaScript apps. It helps manage the state of the application in a predictable and efficient manner.
4. HTML and CSS: HTML and CSS are used to structure the web pages and style the UI components respectively.

Backend

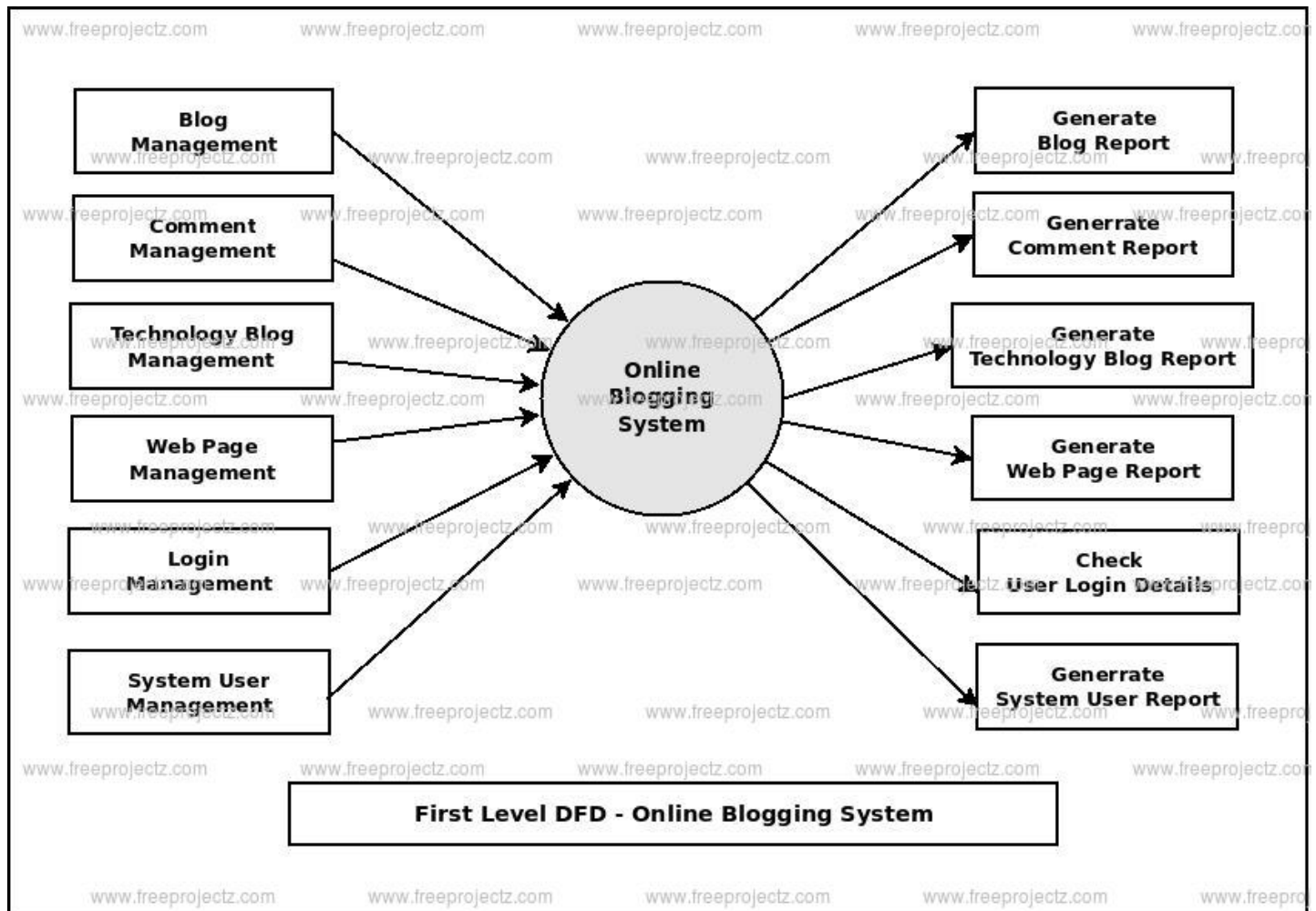
The backend of GLA Blogspot can be implemented using the following technologies:

1. Node.js: Node.js is a JavaScript runtime that allows for the development of scalable, high-performance web applications. It is built on top of the V8 JavaScript engine and allows for non-blocking I/O operations.
2. Express: Express is a popular web framework for Node.js that simplifies the development of web applications by providing a set of features and tools.
3. MongoDB: MongoDB is a NoSQL database that provides a flexible schema design and allows for the storage of large amounts of unstructured data.
4. Mongoose: Mongoose is an Object Data Modeling (ODM) library for MongoDB that provides a simple and efficient way to interact with the database.
5. JSON Web Token (JWT): JWT is used for authentication and authorization purposes in GLA Blogspot. The backend generates and validates JWTs to ensure that only authorized users can access the content.

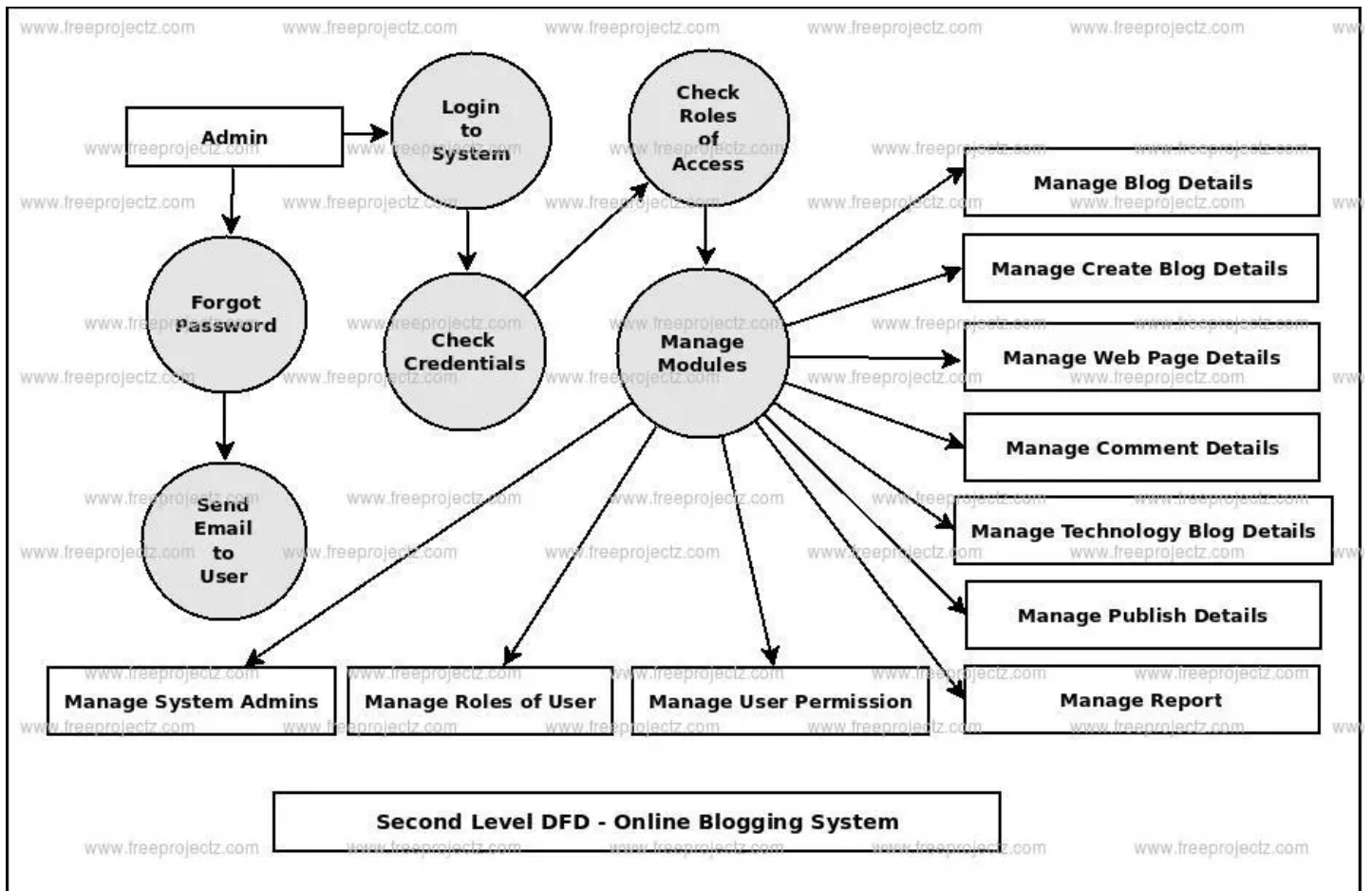
DATA FLOW DIAGRAMS



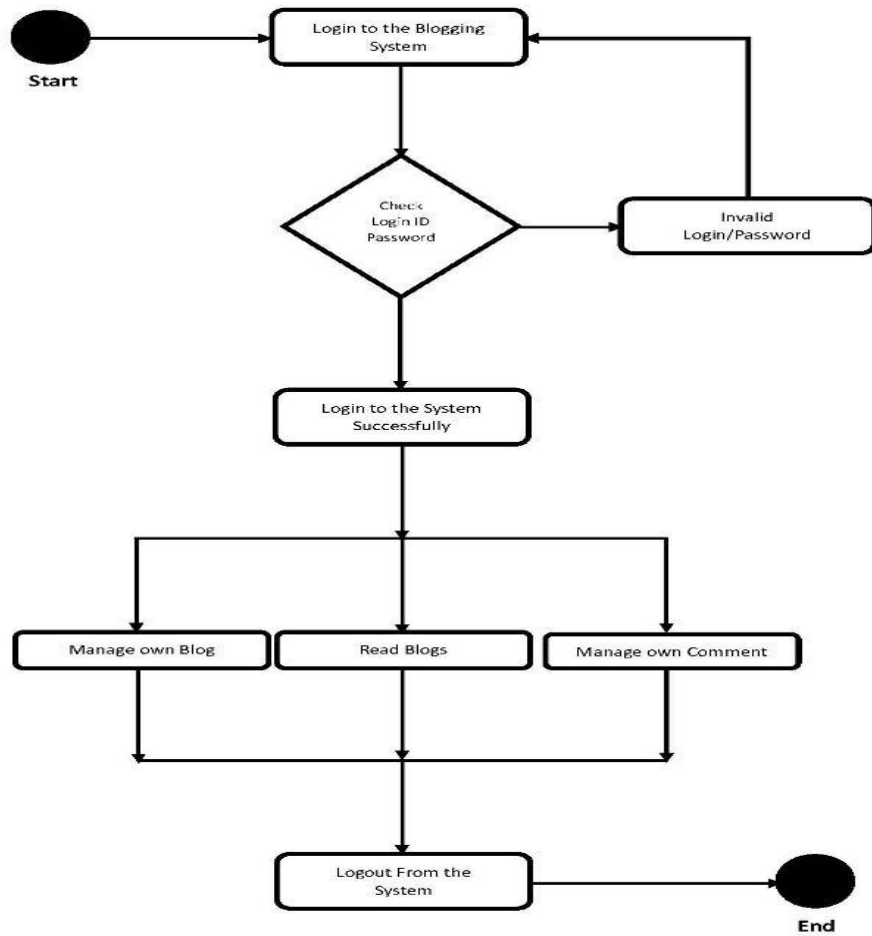
LEVEL 0 DATA FLOW DIAGRAM



LEVEL 1 DATA FLOW DIAGRAM



LEVEL 2 DATA FLOW DIAGRAM



USE CASE DIAGRAM



Enter Username

Enter Password

Login

OR

[Create an account](#)

HOMEPAGE OF THE WEBSITE

REFERENCES :

Books:

- Full stack React projects 2nd Edition
Shama Hoque
- ReactProjects Roy
Derks

Websites:

- <https://developer.mozilla.org/en-US/>
- <https://reactjs.org/docs/getting-started.html>
- <https://expressjs.com/>
- <https://nodejs.org/docs/latest-v18.x/api/>
- <https://mongoosejs.com/docs/guide.html>

Faculty Guidelines:

Ms. Ruchi Talwar (Technical Trainer in GLA University)

GitHub Repository link:

<https://github.com/Rishabh122333/GLA-BLOGSPOT>