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## Blogging Website

*Akshat Sinha<sup>1</sup>, Namish Pratab Chand<sup>2</sup>, Neha Paliwal<sup>3</sup>*

<sup>1,2,3</sup> Computer Science (Data Science) Department, Raj Kumar Goel Institute of Technology APJ Abdul kalam University, UP, India  
2000331540008@rkgit.edu.in 2000331540031@rkgit.edu.in

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### ABSTRACT—

The task at hand involves creating a mobile-centric blogging platform along with a corresponding website for hosting and sharing these blogs online. With the increasing number of mobile users, the objective is to provide an easily accessible medium for individuals to express their opinions, read, write, and comment using their mobile devices. The challenge entails developing, integrating, and deploying various technological components to streamline the blogging experience on mobiles.

*Keywords—* React.js, Node.js, Express.js, MongoDB, AWS.

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### INTRODUCTION

A blog serves as a dynamic website updated regularly with new content, typically comprising short, informal writings that include text, images, videos, and various media. It offers a virtual platform on the internet for individuals to document and share their thoughts, experiences, and interests. While some popular blogs resemble online magazines due to a team consistently updating them, the majority are more personal, often maintained by a single individual who shares their unique interests and personality.[1]

Those who write and manage blogs are known as bloggers. Contrary to popular stereotypes, bloggers come from diverse backgrounds, ages, and professions. Despite the centralization, licensing, and monitoring of most procedures in a regulated legal system, bloggers often share the common trait of using their blogs as a means of personal expression.[1]

A significant portion of bloggers, as indicated by the infographic, view blogging as a hobby. Although it can demand substantial time commitments, with many bloggers dedicating several hours each week to creating content and engaging with their audience, the motivation behind blogging varies. Common reasons include sharing knowledge and experiences, expressing opinions on personal interests, increasing involvement in hobbies, and kickstarting or advancing a writing career. [1][6]

Many bloggers, driven by passion, voluntarily dedicate time to write about topics they love regularly. This enthusiasm provides them with the freedom and flexibility to express their thoughts and share their passions with a wider audience. While some blog purely for personal fulfillment, others aim to make money through their blogs by incorporating advertisements, selling products, or a combination of both.

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### LITERATURE REVIEW

#### *Existing System*

The current software available lacks data protection for confidential information, being freely accessible to anyone. In the past, students primarily wrote for their teachers, leading to a lack of enthusiasm due to limited visibility and relevance beyond the classroom. The existing platform, Blogger, has certain limitations on user capabilities and features. It can only be monetized through Google advertisements, creating a potential conflict of interest. Ownership concerns arise as Google controls the types of ads displayed, risking content loss if the platform is shut down. Additionally, Blogger lacks the diverse plugins offered by its competitor, WordPress, limiting customization options and potentially resulting in similar-looking blog sites.[3]

### New System

The evolved blogging platform has become a robust online organization with continuous engagement through regular publishing, commenting, and promotion. While corporate blogs add variety, personal blogs remain popular. The mainstream media's quest for a cost-effective, real-time news platform has contributed to the credibility and growth of blogs.[3][4] The blogging industry's profitability and benefits attract more individuals, leading to increased competition. Businesses aim to market products through high-traffic blogs, creating earning opportunities. The blogging landscape is poised for significant expansion, presenting an opportune time to start.

Despite the effectiveness of blogs in customer communication, organizations often find support ticket systems more efficient for customer relations. The commitment to regular blog updates, ideally three times a week, can be demanding, making it challenging for casual bloggers.[6] However, there are simpler methods for Internet marketers to promote their products. The straightforward publishing process and customizable themes of the Blogger platform offer ease without requiring technical expertise.

Bloggers often explore various website designs to discover the one that aligns best with their requirements. It's an intriguing journey of experimentation. Lastly, I'd like to extend my thanks to all my colleagues and members of the Computer Science and Engineering department for their support, whether it was direct or indirect.[6][7]

The diagram below (Fig.1) provides a fundamental illustration of how the backend is structured in a private connection, represented in a block-diagram format.

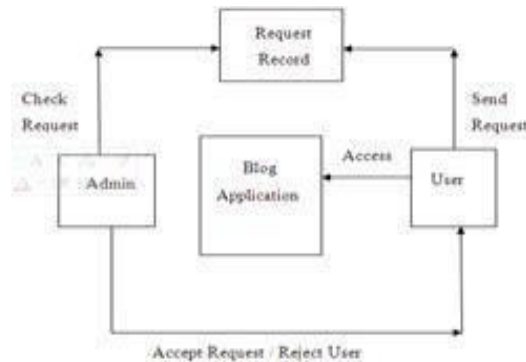


Fig.1 Connectivity System (Decentralized)

## WORK DONE

### System Testing

System testing is a crucial aspect of quality assurance, serving as the final evaluation of analysis, design, and coding. Test case design focuses on creating tests to meet the overall testing aim.[10] The goal is to ensure the system functions correctly, identifying and rectifying any errors. System testing encompasses a thorough examination of programs, manual methods, computer operations, and controls. It aims to determine whether the developed system aligns with

- i. Purpose: This platform serves as a dedicated space for employees to share and upload their expertise throughout the organization. It facilitates comprehensive discussions on users' or students' functional and non-functional requirements, allowing them to easily post topics on their blogs accessible to all organization members [8][9]. The purpose is to foster the formal and secure exchange of information.
- ii. Scope: Both teachers and students can leverage this platform to create their own blogs. Teachers can efficiently communicate crucial organizational updates to their students through this blogging system. Meanwhile, students have the opportunity to provide comments and feedback to the organization. Additionally, for those who may find it challenging to express thoughts in person, the blogging system offers an alternative means of communication.
- iii. (iii) Overview: This approach streamlines communication for teachers and students, even when they transition from one organizational setting to another.

## B. Interface Requirements

GUI 1: The main menu should include options such as Home, Registration, About Us, and Contact Us.

GUI 2: The front page should display blog details along with instructions for blog users.

GUI 3: Registration involves filling out a form for organization members, which requires approval from the admin.

GUI 4: The Login form is accessible on the Home page, serving as the entry point for admin and valid user logins.

GUI 5: About Us provides information about the organization and details about the developers.

GUI 6: Contact Us includes the college's contact details for members utilizing the system.[9]

### A. Application

This platform operates as a daily diary, supporting the authoring, editing, and posting of blog entries and comments. It functions as a specialized content management system with features like image management, online syndication, and post/comment moderation. The system facilitates communication among organization members. Admins can send approval emails to members, and members can recover their passwords via email.

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Administrators have the authority to permit members to create blogs. Each member needs a unique username and password to view their blog, with the flexibility to change their password at any time by entering the current one.

Other technologies also implemented which is asfollow:

- Recaptcha for character identification.
- E-mail linking.
- Admin approval.
- Http protocol for access.

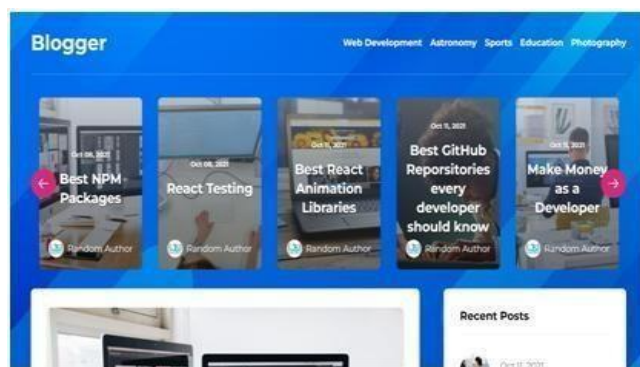


Fig.2



Fig.3

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## 4.TOOLS

The prototype application underwent development and testing within a controlled test network, employing various tools:

**JavaScript:** A dynamic, loosely typed programming language with first-class functions, JavaScript operates on prototypes and supports multiple programming paradigms such as object-oriented, imperative, or functional programming. It is primarily used as client-side JavaScript, formalized by the ECMA Script language standard.[12][13] JavaScript is widely utilized not only for web pages but also in applications like PDF documents, site-specific browsers, and desktop widgets. The introduction of newer and faster JavaScript virtual machines and frameworks, notably Node.js, has increased its popularity for server-side web applications. Its syntax is influenced by that of C.

**Netlify:** Offering a range of products, Netlify provides effective deployment solutions for modern web apps. Features like Continuous Deployment, Custom Domains, Managed DNS, and Netlify Forms for contact pages and file uploads enhance deployment capabilities. The platform also supports serverless functions, and its diverse documentation and resources cater to various learning preferences.

**Node.js:** Functioning as a server-side platform built on Google Chrome's V8 engine, Node.js was developed by Ryan Dahl in 2009. Its asynchronous APIs mean a Node.js-based server doesn't wait for API responses, enhancing efficiency.

**GraphQL:** Serving as both an API query language and a runtime for executing queries, GraphQL allows clients to request specific data, making API evolution easier and enabling powerful developer tools. GraphQL queries enable access to multiple resources in a single request, offering efficiency compared to traditional REST APIs that require loading from multiple URLs.

**Next.js:** Described as the Production React Framework, Next.js provides an optimal development experience with features like hybrid static and server rendering, TypeScript support, smart bundling, route pre-fetching, and more, without the need for extensive configuration.[14]

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## CONCLUSION

In the course of creating the system, deliberate efforts were made to develop a software package capable of generating an effective case system using available tools, methodologies, and resources.[20] The system was crafted with the primary aim of maximizing user-friendliness. Consequently, it is reasonable to anticipate broad user acceptance and the fulfillment of their requirements. Like any system development process, there have been certain imperfections in the development of this system.

This paper aims to delve into the significance of advanced blogging, characterized by a website allowing numerous entries from organization members. Advanced blogging is an excellent means to learn the art of creating one's own blog. Blogger stands out as a widely recognized and popular platform for blogging, especially in a business context. The appeal of this advanced blogging lies in its free accessibility, enabling individuals to manage their own blogs without grappling with the technical intricacies of hosting.

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