A Project Report on

BLOGS : GUIDING THE WAY FOR THE FUTURE

A Dissertation submitted to JNTU Hyderabad in partial fulfillment of the academic requirements for the award of the degree.

Bachelor of Technology

In

Computer Science and Engineering

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY

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CERTIFICATE

This is to certify that the Major Project report entitled **"BLOGS : GUIDING THE WAY FOR THE FUTURE"** being submitted by T.SAI VENKAT (20H51A0523), K.RAJA SIMHA REDDY (20H51A05C6), B.GANESH (20H51A05D6) in partial fulfillment for the award of **Bachelor of Technology in** Computer Science and Engineering is a record of bonafide work carried out under my guidance and supervision.

The results embodies in this project report have not been submitted to any other University or Institute for the award of any Degree.

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ABSTRACT

Blogs are a popular medium for sharing personal thoughts, opinions, experiences, and knowledge on various topics. Blogging has become a powerful means of self-expression and information-sharing in the digital age. It has democratized publishing, allowing anyone with internet access to create and distribute content globally. Blogs continue to be a significant part of the online landscape, complementing traditional media and fostering diverse voices and opinions. For beginners, blogs serve as a vast treasure trove of knowledge, guidance, and inspiration. They are like virtual mentors, providing valuable insights and experiences on a wide range of topics.

In summary, blogs provide a supportive and enriching environment for beginners. They offer knowledge, encouragement, and a sense of belonging, transforming the daunting task of starting something new into an exciting adventure of exploration and growth.

CHAPTER 1
INTRODUCTION

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1.1.Problem Statement

The Blogs addresses a significant issue in the realm of internships and placements by providing a dedicated web-based platform for facilitating feedback exchange between juniors and seniors. [5].This platform is specifically designed to streamline the process of sharing feedback about performance, skills, and potential among individuals who have participated in such programs. By offering a structured and organized framework, The Blogs aims to overcome the challenges associated with traditional feedback methods and create a more efficient and effective feedback mechanism for both juniors and seniors.[6]

Within The Blogs platform, seniors play a crucial role in providing constructive feedback to juniors based on their experiences working together during placements or internships[6]. This feedback is intended to help juniors gain a deeper understanding of their strengths and areas for improvement, ultimately contributing to their career development. By leveraging the insights and expertise of seniors, juniors can identify areas where they can enhance their skills and increase their chances of securing future employment opportunities. Thus, The Blogs serves as a valuable resource for fostering professional growth and development among participants.

The central objective of The Blogs is to create a collaborative environment where feedback exchange is encouraged and valued. Through the platform, seniors have the opportunity to act as mentors to juniors[6], offering guidance, advice, and support based on their own experiences in the industry. In turn, juniors can benefit from the mentorship of seniors, gaining valuable insights and perspectives that can help shape their career trajectories. This mutual exchange of feedback and mentorship not only benefits individuals involved but also contributes to the overall development of the professional community.

In summary, The Blogs represents a solution to the challenges associated with feedback exchange in placement and internship programs. By providing a structured platform for seniors to share feedback with juniors, the platform facilitates career development and professional growth for all participants. Through collaborative mentorship and constructive feedback, The Blogs aims to empower individuals to make informed decisions about their career paths and enhance their prospects in the job market.

1.2.Research Objective

1. Explore the Effectiveness of Feedback: The project can aim to investigate the impact of feedback from seniors on the interview skills and career development of juniors. This objective involves assessing whether the feedback provided by seniors leads to measurable improvements in juniors' interview performance and overall professional growth.[6]

2. Understand the Needs and Expectations of Juniors: Conduct research to gain insights into the specific needs, expectations, and challenges faced by juniors during the job interview process. This objective involves gathering data through surveys, interviews, or focus groups to understand the areas where juniors require guidance and support.

3. Assess the Value of Knowledge Transfer: Examine the extent to which knowledge transfer occurs through the feedback loop between seniors and juniors. This objective involves evaluating whether juniors perceive the feedback received as valuable and relevant to their career aspirations, and if they apply the shared knowledge effectively.

1.3.Project scope and Limitations

Interview Scope: The interviews will focus on developers and professionals in the tech industry, including those working with new and emerging technologies.

Learning Solutions: While the project may offer coding solutions, it will not provide extensive one-on-one tutoring or personalized assistance to learners.

Languages and Platforms: The project will cover popular programming languages, widely-used development tools, and new/emerging technologies, with a focus on technologies of broad interest to the tech community.

Project Deliverables:

The project aims to deliver several key components to meet its objectives:

- Comprehensive research reports detailing the findings from interviews conducted with developers and professionals in the tech industry.
- Educational resources and materials, including coding solutions, tutorials, and guides focused on popular programming languages and widely-used development tools.
- Documentation outlining the scope and limitations of the project, providing transparency and clarity to stakeholders and participants.
- Recommendations for enhancing learning experiences and optimizing feedback mechanisms within placement and internship programs.

Target Audience:

The primary audience for the project includes:

- Junior developers and individuals seeking to enhance their skills and knowledge in the tech industry.
- Seniors and professionals willing to share their expertise and provide feedback to support the career development of juniors.
- Educational institutions, placement coordinators, and internship program managers interested in improving the effectiveness of feedback mechanisms and learning solutions within their programs

Project Timeline:

The project will be executed in several phases over a specified timeline:

Phase 1: Research Planning and Preparation (Month 1-2)

Phase 2: Data Collection and Analysis (Month 3-5)

Phase 3: Development of Educational Resources and Materials (Month 6-8)

Phase 4: Documentation and Reporting (Month 9-10)

Phase 5: Presentation of Findings and Recommendations (Month 11-12)

Project Management Approach:

The project will adopt an agile project management approach, allowing for flexibility and adaptability to evolving requirements and priorities. Regular meetings, progress updates, and feedback sessions will be conducted to ensure effective communication and collaboration among team members and stakeholders. Additionally, project milestones and deliverables will be tracked using project management tools to monitor progress and ensure timely completion of objectives.[6]

Ethical Considerations:

The project will adhere to ethical guidelines and principles, ensuring the confidentiality and privacy of participants involved in interviews and data collection. Informed consent will be obtained from all participants, and measures will be implemented to protect sensitive information. Additionally, efforts will be made to promote diversity and inclusion in participant selection and representation, ensuring a comprehensive and representative sample for research purposes.

CHAPTER 2
BACKGROUND WORK

CHAPTER 2

BACKGROUND WORK

2.1 Interview Bit

2.1.1 Introduction

Interview Bit is a dynamic online coding platform tailored to assist individuals in preparing for technical interviews. Serving as a comprehensive resource hub, it offers a myriad of features including interview preparation materials, coding challenges, and practice questions. Unlike conventional platforms, Interview Bit stands out for its community-driven approach, fostering collaboration and knowledge-sharing among users. Through this collaborative environment, individuals can glean insights from the experiences, tips, and resources shared by peers, thereby enhancing their readiness for coding interviews.

Features and Offerings:

Interview Bit prides itself on offering a diverse array of features and resources designed to cater to the multifaceted needs of interview candidates. Users can access an extensive library of interview preparation materials spanning various topics and domains, ensuring comprehensive coverage of essential concepts and techniques. Additionally, the platform offers a plethora of coding challenges and practice questions meticulously curated to simulate real-world interview scenarios. These interactive exercises serve as invaluable tools for honing problem-solving skills and mastering algorithmic thinking.

Community-Driven Platform:

At the heart of Interview Bit lies its vibrant and collaborative community, comprising aspiring developers, seasoned professionals, and industry experts. Through user-generated content and contributions, the platform fosters a culture of knowledge exchange and mutual support. Users have the opportunity to share their interview experiences, insights, and strategies, providing invaluable guidance and mentorship to fellow members. This collaborative ethos not only enriches the learning experience but also cultivates a sense of camaraderie and solidarity among participants.

Impact and Significance:

Interview Bit's innovative approach to interview preparation has garnered widespread acclaim within the tech community. Its user-centric design and emphasis on community engagement have democratized access to high-quality interview resources and support. By empowering individuals to harness the collective wisdom and experience of their peers, Interview Bit has revolutionized the landscape of technical interview preparation. Through its inclusive and collaborative platform, Interview Bit continues to empower aspiring developers to realize their full potential and succeed in their career aspirations.

Fig-2.1 - Interview Bit

2.1.2. Merits and Demerits :

Demerits:

1.InterviewBit primarily focuses on coding interview preparation. While it is beneficial for technical interviews, it may not cover other aspects of the interview process, such as behavioral or case-based interviews, which are important for many job positions.

2.It does not any categorical search of the interviews.

Merits

1.It mainly focuses on coding questions

2.It used for enhancing the coding skills of students

2.1.3. Implementation of Interview Bit

1. Sign up and create an InterviewBit account.
2. Set up your user profile with skills and goals.
3. Choose a relevant learning path or role.
4. Select problems by topic and difficulty.
5. Solve problems independently and review solutions.
6. Test your code against provided test cases.
7. Participate in mock interviews for practice.
8. Track your progress and areas for improvement.
9. Consider joining coding competitions.
10. Stay consistent with your interview preparation efforts.

2.2 Stack Overflow

2.2.1 Introduction

Stack Overflow stands as a cornerstone within the online programming community, revered as a go-to destination for programmers and developers seeking assistance, guidance, and expertise. Founded in 2008 by Jeff Atwood and Joel Spolsky, Stack Overflow emerged as a pioneering platform designed to facilitate knowledge sharing, collaborative problem-solving, and peer-to-peer learning within the realm of programming and software development. With its inception, Stack Overflow revolutionized the way developers interact and engage with one another, fostering a vibrant ecosystem of knowledge exchange and community-driven support.

Platform Features and Functionality:

At the core of Stack Overflow's appeal lies its rich array of features and functionalities tailored to meet the diverse needs of programmers and developers worldwide. Central to its offering is the question-and-answer format, which serves as the foundation for the platform's collaborative knowledge-sharing model. Users can pose questions on a myriad of programming topics, ranging from syntax queries to complex algorithmic challenges, and receive responses and insights from a vast network of fellow developers. Additionally, Stack Overflow features a robust system of user-generated content, including code snippets, tutorials, and best practices, providing a wealth of resources for individuals at all skill levels.

Community Engagement and Collaboration:

Stack Overflow's success is intricately tied to its vibrant and engaged community of users, comprising developers, software engineers, and technology enthusiasts from across the globe. Through active participation in discussions, voting, and contributions to the platform's repository of knowledge, users play an integral role in shaping the content and direction of Stack Overflow. The platform's emphasis on collaboration and peer review fosters a culture of collective problem-solving and continuous learning, empowering individuals to both seek assistance and share their expertise with others camaraderie and mutual support has cemented Stack Overflow's status as a trusted resource within the programming community.

Impact and Legacy:

Over the years, Stack Overflow has left an indelible mark on the landscape of software development and programming education. Its democratized approach to knowledge sharing has democratized access to expertise and guidance, leveling the playing field for developers of all backgrounds and experience levels. By providing a platform where knowledge knows no boundaries and where individuals can freely exchange ideas and insights, Stack Overflow has become an invaluable asset to the global programming community. As it continues to evolve and adapt to the changing needs of developers, Stack Overflow remains committed to its mission of empowering individuals to learn, grow, and excel in their programming endeavors.

Fig-2.2 – Stack Overflow

2.2.2. Merits and Demerits :

Demerits:

1.Stack Overflow allows users to include links to external resources in their answers. However, if those external links become broken or the linked content changes, the answers may lose their value over time.

Merits:

1.Stack Overflow has a code of conduct that outlines guidelines for respectful and constructive communication within the community.

2. Stack Overflow Jobs is a section of the platform where companies can post job openings, and developers can search for job opportunities.

2.2.3. Implementation of Stack Overflow:

1. HTML & CSS: Develop a simple web interface with HTML for structure and CSS for styling.
2. Backend Language: Use a backend language like Python with a web framework (e.g., Flask or Django).
3. Database: Set up a database system (e.g., SQLite) for storing questions, answers, and user data.
4. User Authentication: Implement user registration, login, and basic authentication.
5. Questions & Answers: Create forms to post questions and answers, storing them in the database.
6. Voting: add upvoting and downvoting functionality for both questions and answers.
7. Tagging: Allow users to add tags or categories to questions.
8. Search: Implement a rudimentary search feature to find questions.
9. User Profiles: Display user profiles with their asked and answered questions.
10. Deployment: Host the platform on a web server or a cloud platform for public access.

2.3 GeeksForGeeks

2.3.1 Introduction

GeeksforGeeks stands as a prominent platform in the realm of computer science education, renowned for its comprehensive array of resources and coding challenges tailored for programmers and technology enthusiasts. Established with the mission of fostering learning and skill development, GeeksforGeeks serves as a one-stop destination for individuals seeking to enhance their coding proficiency and deepen their understanding of computer science concepts. With a steadfast commitment to excellence, GeeksforGeeks has emerged as a trusted resource for students, professionals, and aspiring technologists alike, offering a diverse range of educational materials and preparation resources.

Platform Features and Functionality:

At the core of GeeksforGeeks' appeal lies its extensive suite of features and functionalities designed to cater to the diverse needs of its user base. Central to its offering are the vast repositories of coding challenges, algorithms, and data structures, meticulously curated to provide hands-on learning opportunities and foster problem-solving skills. Additionally, GeeksforGeeks offers a wealth of educational content spanning various topics in computer science, including tutorials, articles, and video lectures, catering to learners at all levels of expertise. The platform's intuitive interface and user-friendly design make it accessible and navigable, ensuring a seamless learning experience for its users.

Interview and Exam Preparations:

Recognizing the importance of interview and exam preparations in career advancement, GeeksforGeeks offers specialized resources and guidance to aid aspirants in their journey towards success. Whether preparing for technical interviews at top tech companies or tackling competitive exams in the field of computer science, GeeksforGeeks equips individuals with the knowledge, skills, and strategies needed to excel. From comprehensive study materials and mock tests to expert tips and interview experiences shared by industry professionals, GeeksforGeeks provides invaluable support and guidance to individuals striving to achieve their academic and career goals.

Community Engagement and Support:

A cornerstone of GeeksforGeeks' success lies in its vibrant and engaged community of learners, educators, and industry experts. Through active participation in forums, discussions, and collaborative projects, users have the opportunity to engage with like-minded individuals, seek assistance, and share their insights and experiences. This spirit of collaboration and peer support fosters a culture of continuous learning and growth, enabling individuals to expand their knowledge horizons and stay abreast of the latest developments in the field of computer science. As a result, GeeksforGeeks serves not only as a repository of knowledge but also as a dynamic community hub for intellectual exchange and camaraderie.

Fig-2.3 - GeeksforGeeks

2.3.2. Merits and Demerits :

Demerits:

1.The quality of content can vary, with some articles being more comprehensive and accurate than others. Users should verify information from multiple sources, especially when dealing with critical concepts.

Merits:

1.GeeksforGeeks has an active community of users, including contributors, learners, and mentors. This community engagement can foster collaborative learning and support.

2. The articles and tutorials are generally well-structured and provide easy-to-understand explanations with code examples, making complex topics more accessible to learners

2.3.3. Implementation of GeeksforGeeks:

1. Set up a basic website structure with HTML and CSS.
2. Develop a few static pages with coding tutorials and articles.
3. Create a search bar for finding content.

CHAPTER 3
PROPOSED SYSTEM

CHAPTER 3

PROPOSED SYSTEM

3.1 Objective of Proposed System

The project addresses a significant problem faced by juniors, who often lack access to reliable and personalized feedback on their interview experiences. This hinders their ability to improve their interview skills and make informed decisions about their careers. Additionally, there is a lack of structured knowledge transfer between seniors and juniors in placement and internship programs. The project aims to develop a web-based platform that serves as a bridge between seniors and juniors[5], facilitating the collection of feedback from seniors regarding their interview experiences. This platform will provide a structured and organized system for juniors to receive valuable insights, advice, and guidance from seniors who have already gone through the interview process.

By leveraging the experiences and knowledge of seniors, juniors can enhance their interview skills, gain a better understanding of industry expectations, and improve their overall employability. The platform will promote transparency, encourage a culture of learning and growth, and contribute to the improvement of placement and internship programs by providing a reliable and accessible feedback mechanism.

3.2 Languages used for Proposed System

1.HTML:

HTML (stands for Hypertext Markup Language) is a computer language that makes up most web pages and online applications. A hypertext is a text that is used to reference other pieces of text, while a markup language is a series of markings that tells web servers the style and structure of a document.[2]

The average website includes several different HTML pages. For instance, a home page, an about page, and a contact page would all have separate HTML files. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages .

2.CSS:

CSS stands for Cascading Style Sheets. It is the language for describing the presentation of Web pages, including colours, layout, and fonts, thus making our web pages presentable to the users. CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.[3] This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, [2]which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting. Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or screen reader), and on Braille-based.

3.Java Script:

JavaScript is a high-level, interpreted programming language that is primarily used for creating dynamic and interactive elements on websites. It is a versatile language that can be executed on the client-side (in the user's web browser) or the server-side (using technologies like Node.js). [3]

4.MERN:

MERN stands for MongoDB, Express, React, Node, after the four key technologies that make up the stack.[5]

- MongoDB — document database.
- Express(.js) — Node.js web framework.
- React(.js) — a client-side JavaScript framework.
- Node(.js) — the premier JavaScript web server.
- Express and Node make up the middle (application) tier. Express.js is a server-side.

web framework, and Node.js is the popular and powerful JavaScript server platform.
Regardless of which variant you choose, ME(RVA)N is the ideal approach to working with JavaScript and JSON, all the way through.

3.3 Designing

3.3.1 UML DIAGRAM:

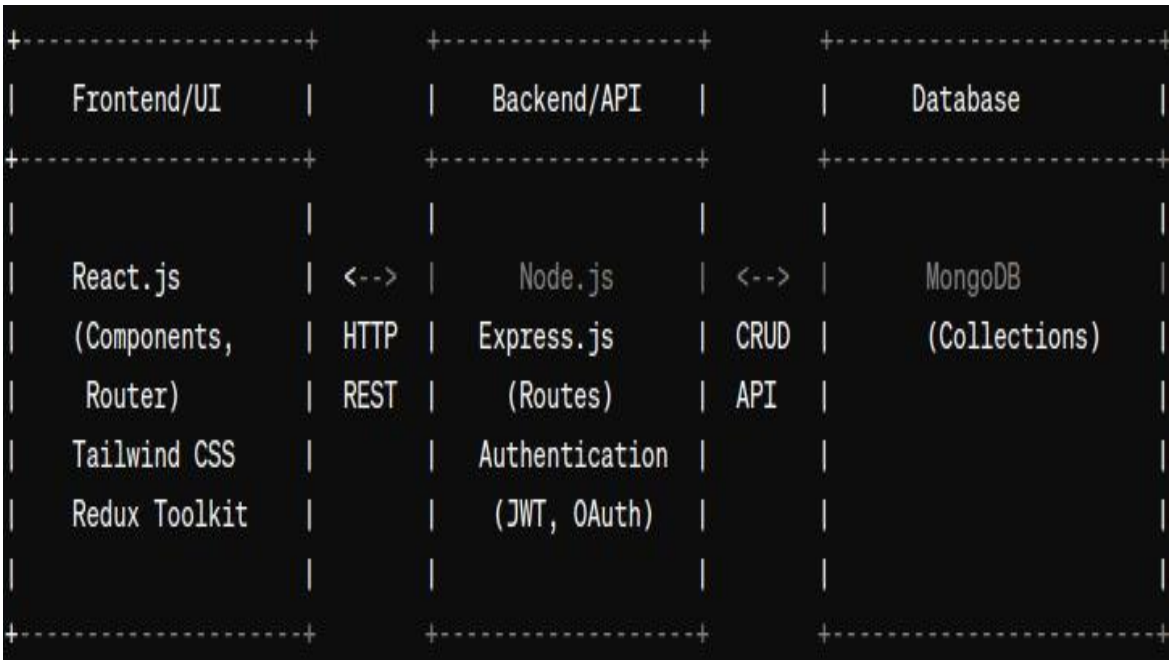

Figure-3.1

3.3 Stepwise Implementation:

1.Project Setup

- Node.js and npm Installation
- Initialize a New Node.js Project
- Install Dependencies
- Project Structure

2. Frontend Implementation

- React.js Components
- Styling with Tailwind CSS
- Routing with React Router
- State Management with Redux Toolkit
- Authentication Components

3.Backend Implementation:

- Express.js Server Initialization
- Middleware Functions
- Authentication Middleware
- MongoDB Setup with Mongoose
- CRUD Operations

Project Setup:

1.Node.js and npm Installation:

Install Node.js and npm on your system. These tools are essential for managing packages and dependencies in your project.

2.Initialize a New Node.js Project:

Use the following command to create a package.json file, which tracks project metadata and lists dependencies:

Command: *npm init*

3.Install Dependencies:

Install the necessary libraries and frameworks:

React.js: A JavaScript library for building user interfaces.

Tailwind CSS: A utility-first CSS framework for styling components.

Redux Toolkit: Simplifies state management.

Express.js: A backend framework for creating an API server.

Mongoose: An Object Data Modeling (ODM) library for MongoDB.

react-router-dom: For managing navigation.

Project Structure:

Organize your project by creating separate directories for frontend and backend code. This separation helps maintain a clean structure and separates client-side and server-side concerns.

Frontend Implementation:

1.React.js Components:

Create UI components using React.js. These components will form the building blocks of your frontend.

2.Styling with Tailwind CSS:

Use Tailwind CSS to style your components. It provides utility classes for rapid styling.

3.Routing with React Router:

Implement React Router to manage navigation between different pages or components within your application.

4.State Management with Redux Toolkit:

Set up Redux Toolkit to manage application state. It allows you to handle global state and local component state efficiently.

5.Authentication Components:

Create login and signup forms for user authentication. Integrate Google OAuth for users to sign in using their Google accounts.

Backend Implementation:

1.Express.js Server Initialization:

Create an Express.js server instance. Define routes to handle HTTP requests.

2.Middleware Functions:

Use middleware functions for common tasks:

a)Parse request bodies:

When a client (usually a web browser) sends data to the server (e.g., submitting a form), the request body contains that data.

Middleware for parsing request bodies extracts this data and makes it accessible to your server code.

Common use cases:

1. Form Data: Parse form data submitted via HTML forms.[1]
2. JSON Data: Extract JSON data from requests (often used in APIs).
3. File Uploads: Handle file uploads (e.g., images, documents).

b) Handle CORS (Cross-Origin Resource Sharing):

CORS is a security feature that restricts web pages from making requests to a different domain (origin) than the one that served the web page.

Middleware for handling CORS headers ensures that your server allows or restricts cross-origin requests.

Common use cases:

1. APIs: Allow specific origins (e.g., your frontend app's domain) to access your API.
2. Cookies: Set appropriate CORS headers for cookie-based authent

c) Serve Static Files:

Middleware for serving static files (e.g., HTML, CSS, JavaScript, images) ensures that clients can access these files directly.

Common use cases:

1. Frontend Assets: Serve CSS, JavaScript, and image files to the client.
2. Single-Page Applications (SPAs): Serve the main HTML file and let the client-side router handle other routes.

Authentication Middleware:

Implement middleware to protect routes that require authentication. Verify JWT tokens or Google OAuth tokens before allowing access to protected resources.

MongoDB Setup with Mongoose:

Set up MongoDB using Mongoose. Define schemas and models to structure documents stored in the database.

CRUD Operations:

Implement CRUD (Create, Read, Update, Delete) operations using Mongoose methods to interact with MongoDB.

CODE:

Front-End:

Index.html:

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>CMR Blog</title>
  </head>
  <body>
    <div id="root"></div>
    <script type="module" src="/src/main.jsx"></script>
  </body>
</html>
```

vite.config.js:

```
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react-swc';
// https://vitejs.dev/config/
export default defineConfig({
  server: {
    proxy: {
      '/api': {
        target: 'http://localhost:3000',},},}
        secure: false,  plugins: [react()
            }
    }
}
```

main.jsx:

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App.jsx';
import './index.css';
import { store, persistor } from './redux/store.js';
import { Provider } from 'react-redux';
import { PersistGate } from 'redux-persist/integration/react';
import ThemeProvider from './components/ThemeProvider.jsx';

ReactDOM.createRoot(document.getElementById('root')).render(
  <PersistGate persistor={persistor}>
    <Provider store={store}>
      <ThemeProvider>
        <App />
      </ThemeProvider>
    </Provider>
  </PersistGate>
);
```

firebase.js:

```
// Import the functions you need from the SDKs you need
import { initializeApp } from 'firebase/app';
// TODO: Add SDKs for Firebase products that you want to use
// https://firebase.google.com/docs/web/setup#available-libraries

// Your web app's Firebase configuration

// Initialize Firebase
export const app = initializeApp(firebaseConfig);
```

```
const firebaseConfig = {
  apiKey: import.meta.env.VITE_FIREBASE_API_KEY,
  authDomain: 'mern-blog-b327f.firebaseapp.com',
  projectId: 'mern-blog-b327f',
  storageBucket: 'mern-blog-b327f.appspot.com',
  messagingSenderId: '699397991367',
  appId: '1:699397991367:web:88ff565ef72a182d6b87e2',
};

// Initialize Firebase
export const app = initializeApp(firebaseConfig);
```

app.jsx:

```
import { BrowserRouter, Routes, Route } from 'react-router-dom';
import Home from './pages/Home';
import About from './pages/About';
import SignIn from './pages/SignIn';
import Dashboard from './pages/Dashboard';
import Projects from './pages/Projects';
import SignUp from './pages/SignUp';
import Header from './components/Header';
import Footer from './components/Footer';
import PrivateRoute from './components/PrivateRoute';
import OnlyAdminPrivateRoute from './components/OnlyAdminPrivateRoute';
import CreatePost from './pages/CreatePost';
import UpdatePost from './pages/UpdatePost';
import PostPage from './pages/PostPage';
```

```
import ScrollToTop from './components/ScrollToTop';
import Search from './pages/Search';
export default function App() {
  return (
    <BrowserRouter>
      <ScrollToTop />
      <Header />
      <Routes>
        <Route path='/' element={<Home />} />
        <Route path='/about' element={<About />} />
        <Route path='/sign-in' element={<SignIn />} />
        <Route path='/sign-up' element={<SignUp />} />
        <Route path='/search' element={<Search />} />
        <Route element={<PrivateRoute />}>
          <Route path='/dashboard' element={<Dashboard />} />
        </Route>
        <Route element={<OnlyAdminPrivateRoute />}>
          <Route path='/create-post' element={<CreatePost />} />
          <Route path='/update-post/:postId' element={<UpdatePost />} />
        </Route>

        <Route path='/projects' element={<Projects />} />
        <Route path='/post/:postSlug' element={<PostPage />} />
      </Routes>
      <Footer />
    </BrowserRouter>
  );
}
}
```

backend(api):

index.js:

```
import express from 'express';
import mongoose from 'mongoose';
import dotenv from 'dotenv';
import userRoutes from './routes/user.route.js';
import authRoutes from './routes/auth.route.js';
import postRoutes from './routes/post.route.js';
import commentRoutes from './routes/comment.route.js';
import cookieParser from 'cookie-parser';
import path from 'path';
dotenv.config();
mongoose.connect(process.env.MONGO)
  .then(() => {
    console.log('MongoDb is connected');
  })
  .catch((err) => {
    Console.lor(er);
}

app.use('/api/user', userRoutes);
app.use('/api/auth', authRoutes);
app.use('/api/post', postRoutes);
app.use('/api/comment', commentRoutes);

app.get('*', (req, res) => {
  res.sendFile(path.join(__dirname, 'client', 'dist', 'index.html'));
});
```

```
const __dirname = path.resolve();
const app = express();
app.use(express.json());
app.use(cookieParser());

app.listen(3000, () => {
  console.log('Server is running on port 3000!');
});

app.use('/api/user', userRoutes);
app.use('/api/auth', authRoutes);
app.use('/api/post', postRoutes);
app.use('/api/comment', commentRoutes);

app.use(express.static(path.join(__dirname, '/client/dist')));

app.get('*', (req, res) => {
  res.sendFile(path.join(__dirname, 'client', 'dist', 'index.html'));
});

app.use((err, req, res, next) => {
  const statusCode = err.statusCode || 500;
  const message = err.message || 'Internal Server Error';
  res.status(statusCode).json({
    success: false,
    statusCode,
    message,
  });
});
```

post.model.js:

```
import mongoose from 'mongoose';
const postSchema = new mongoose.Schema(
 {
  userId: {
   type: String,
   required: true,
  },
  content: {
   type: String,
   required: true,
  },
  title: {
   type: String,
   required: true,
   unique: true,
  },
  image: {
   type: String,
   default:
    'https://www.hostinger.com/tutorials/wp-content/uploads/sites/2/2021/09/how-to-write-a-blog-post.png',
  },
  category: {
   type: String,
   default: 'uncategorized',
  },
  slug: {
   type: String,
   required: true,
```

```
      unique: true,
    },
  },
  { timestamps: true }
);

const Post = mongoose.model('Post', postSchema);

export default Post;
```

user.model.js:

```
import mongoose from 'mongoose';

const userSchema = new mongoose.Schema(
  {
    username: {
      type: String,
      required: true,
      unique: true,
    },
    email: {
      type: String,
      required: true,
      unique: true,
    },
    password: {
      type: String,
      required: true,
```

```
},
    profilePicture: {
      type: String,
      default:
        'https://cdn.pixabay.com/photo/2015/10/05/22/37/blank-profile-picture-
973460_960_720.png',
    },
    isAdmin: {
      type: Boolean,
      default: false,
    },
  },
  { timestamps: true }
);

const User = mongoose.model('User', userSchema);

export default User;
```

CHAPTER 4
RESULTS AND DISCUSSION

CHAPTER 4

RESULTS AND DISCUSSION

PERFOMANCE METRICS

When it comes to measuring the performance of blogs, there are several key performance metrics you can track to gauge their success and effectiveness. These metrics can help you understand how well your blog is performing and identify areas for improvement. Here are some essential performance metrics for blogs:

Traffic Metrics:

a. Pageviews: The total number of times your blog pages have been viewed. This metric helps you understand the overall popularity of your content.

b. Unique Visitors: The number of distinct individuals who have visited your blog during a specific time. This metric gives you insights into your reach.

SEO Metrics:

a. Organic Traffic: The number of visitors who find your blog through search engines. Monitoring organic traffic can help you assess the success of your SEO efforts.

Conversion Metrics:

a. Conversion Rate: The percentage of visitors who take a desired action, such as signing up for your newsletter, making a purchase, or filling out a contact form. This is a crucial metric for measuring the effectiveness of your blog in achieving its goals.

DISCUSSION

However, it is essential to approach the information on these portals with a critical mindset. Reviews and feedback may vary in terms of bias, subjectivity, and sample size. One should consider multiple sources and cross-reference the information to get a more comprehensive and balanced view.

These portals can serve as valuable supplements to traditional research methods, such as networking, informational interviews, and company websites. They provide a broader perspective on company culture, interview experiences, and technical preparation.

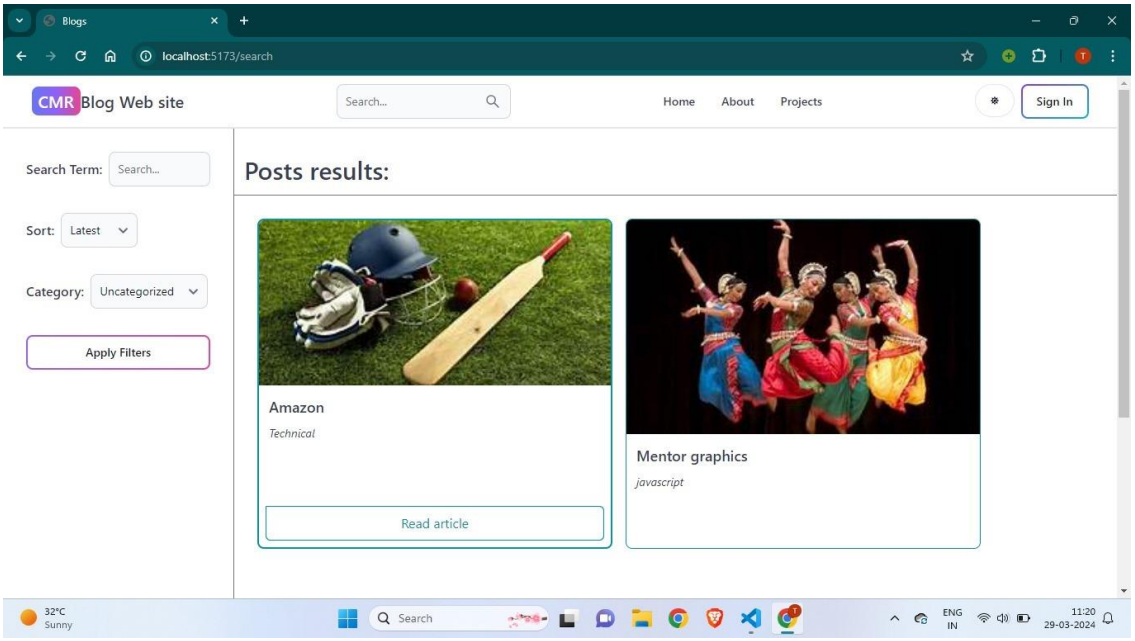

Figure-4.1 Blogs landing page

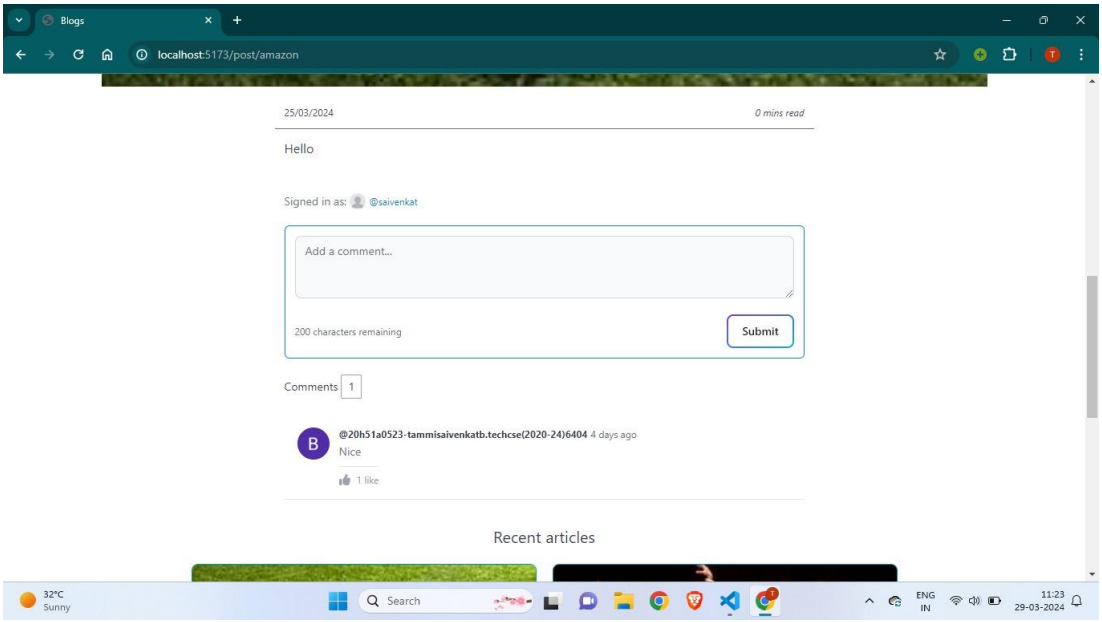

Figure-4.2 Reactions and comments on blogs

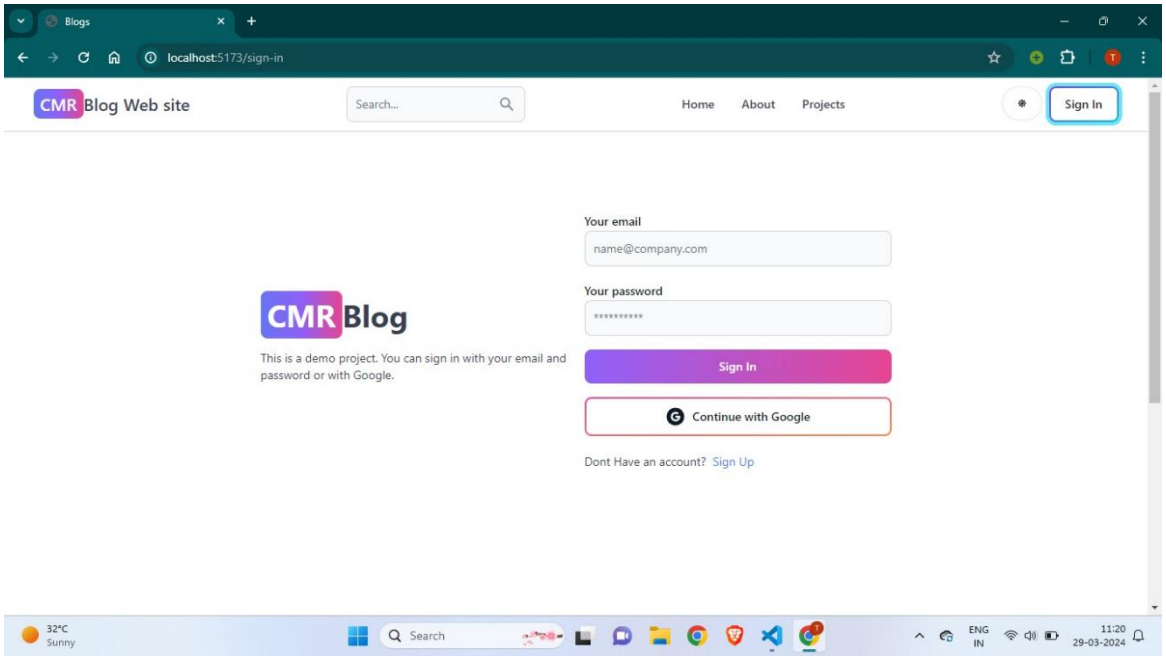

Figure-4.3 Blogs login page

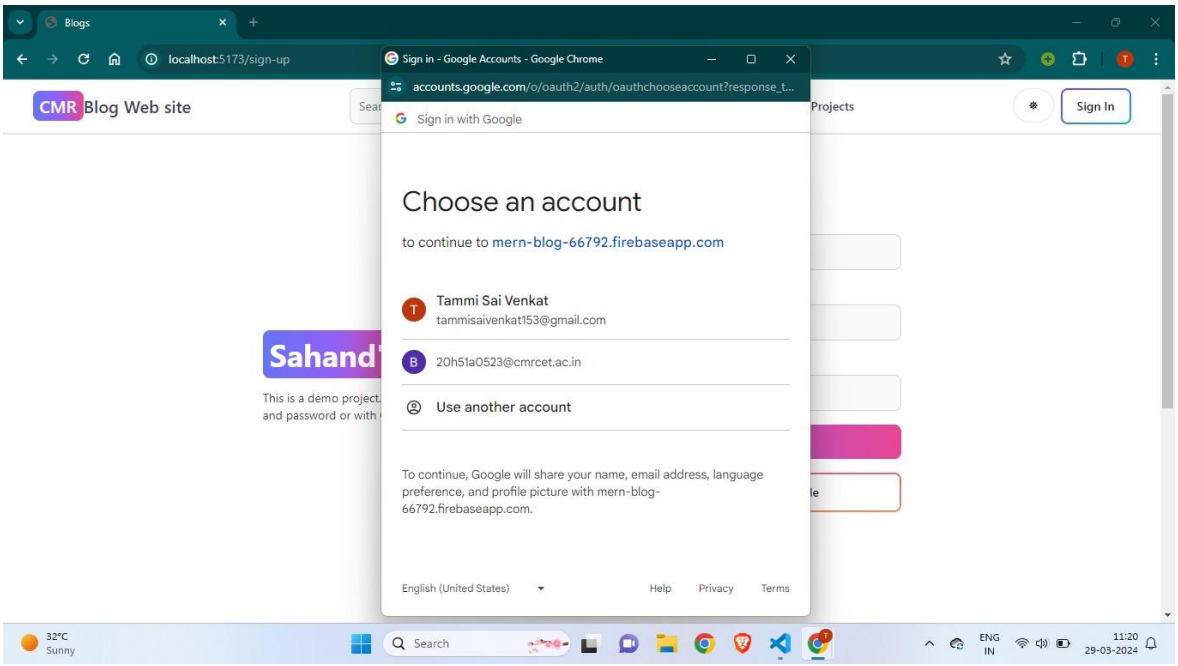

Figure-4.4 Integration with Oauth on blogs

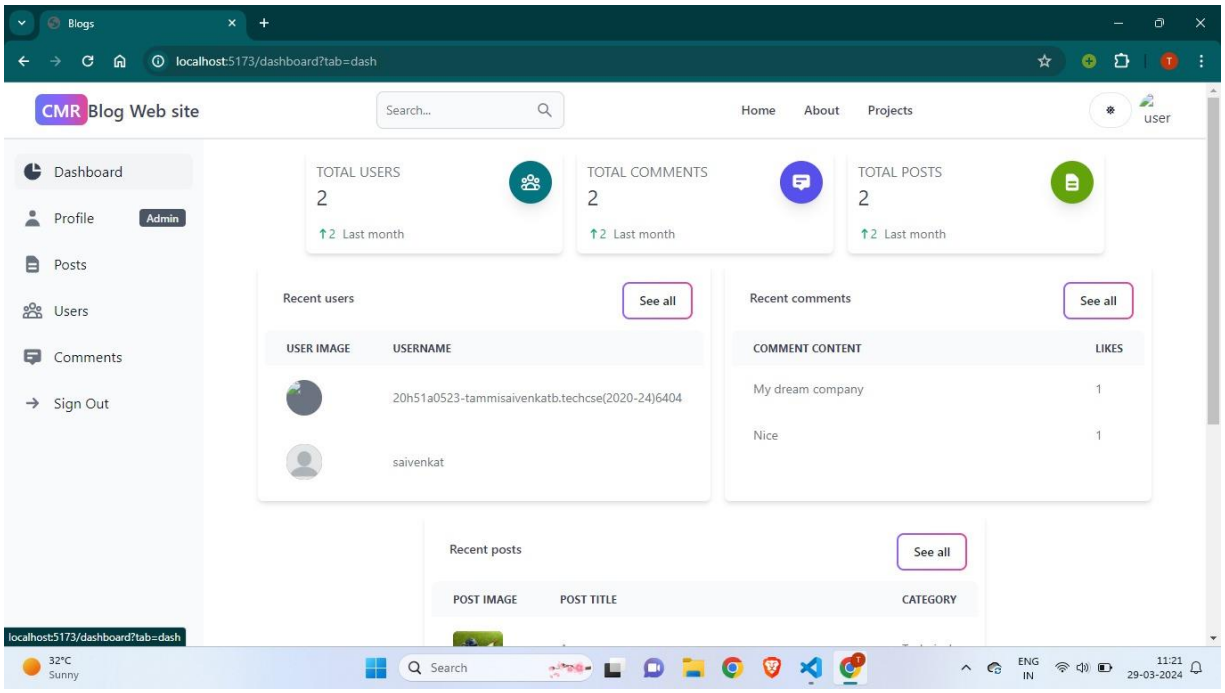

Figure-4.5 Admin dashboard page

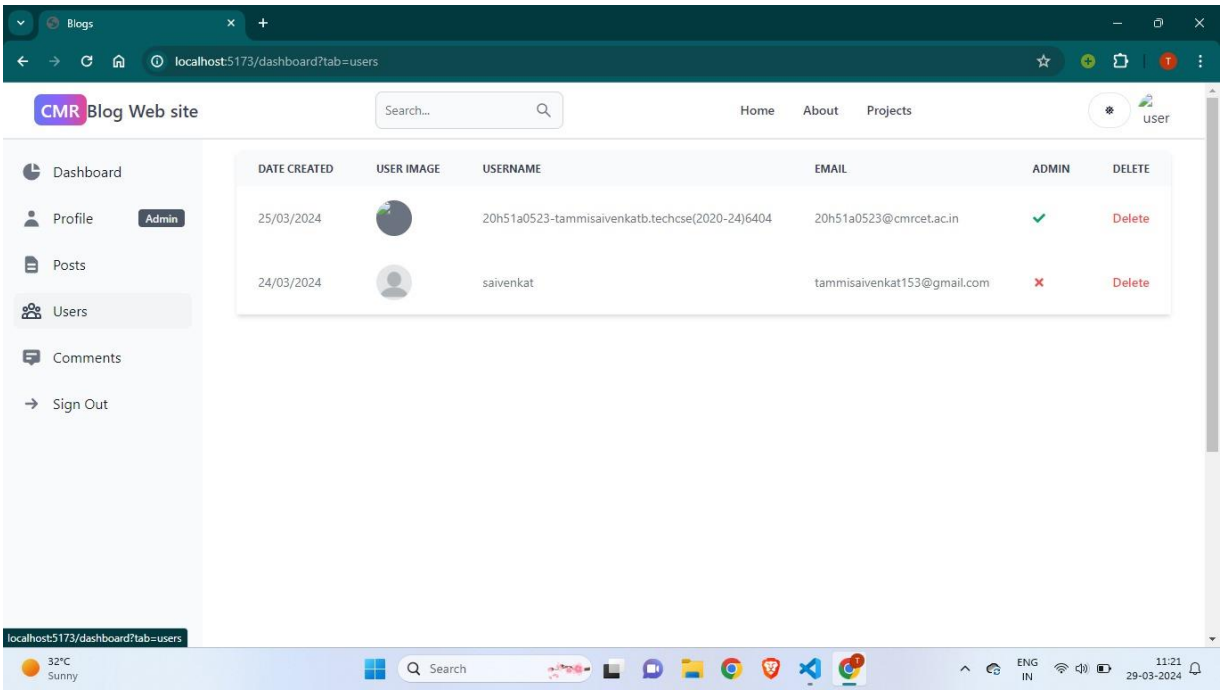

Figure-4.6 List of users page

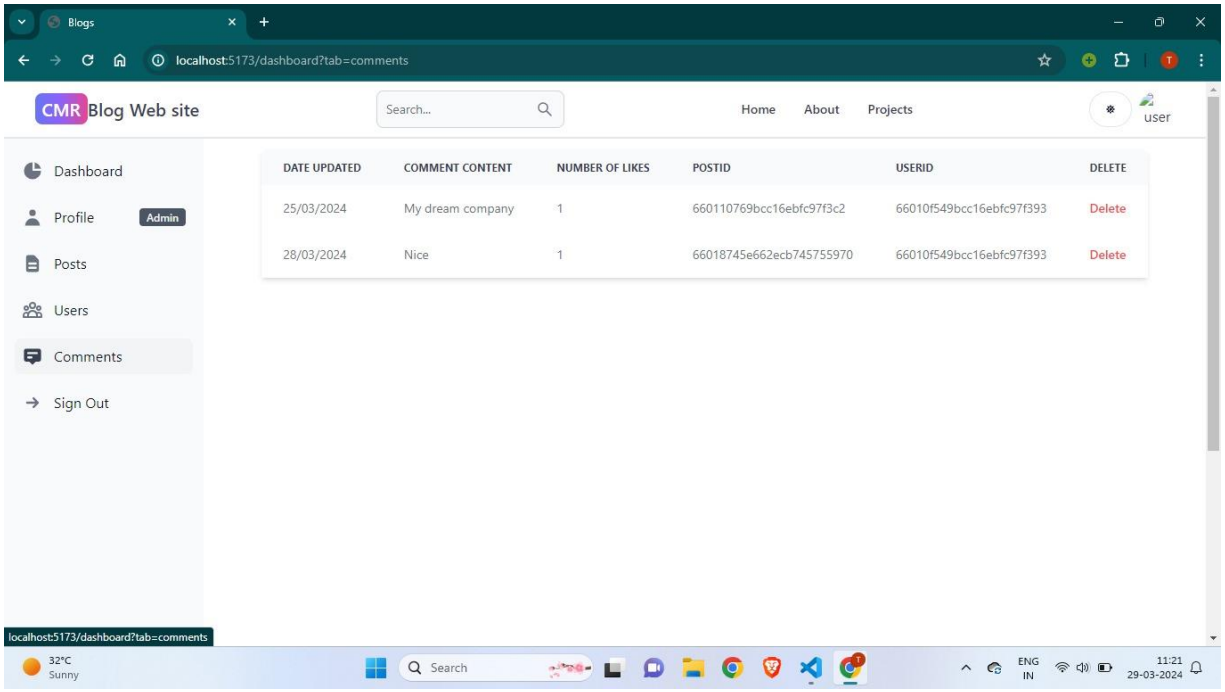

Figure-4.7 List of all comments and reactions on blogs

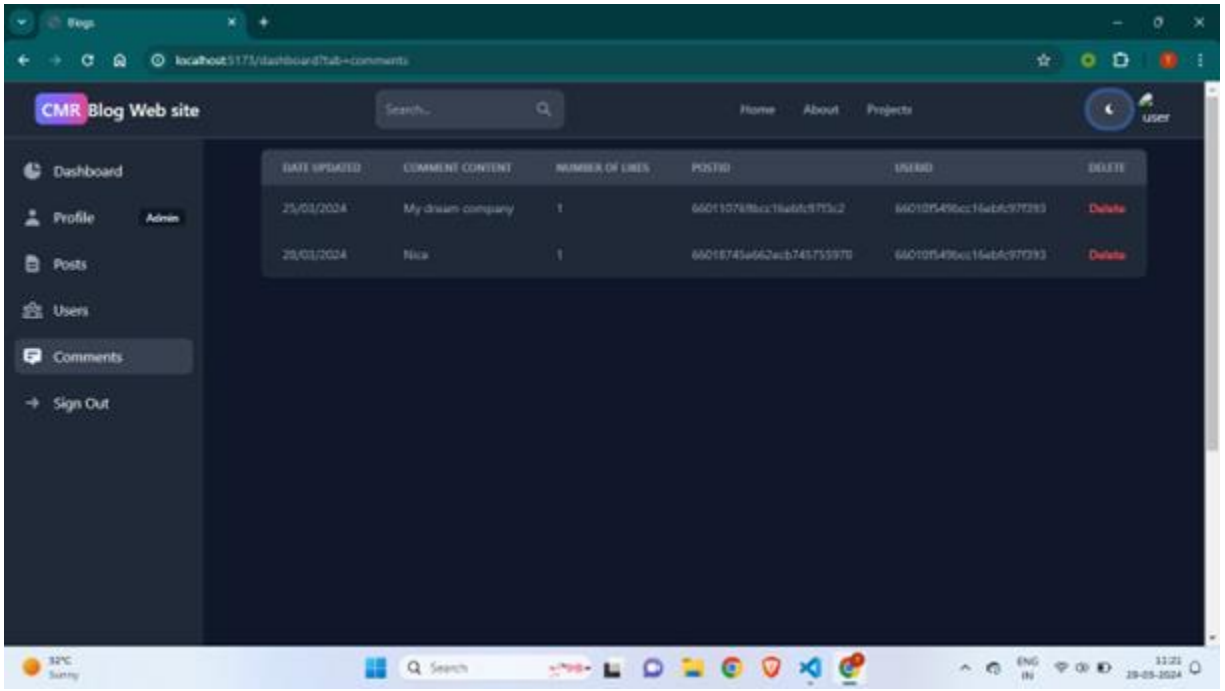

Figure-4.8 Theme switching (Black & White)

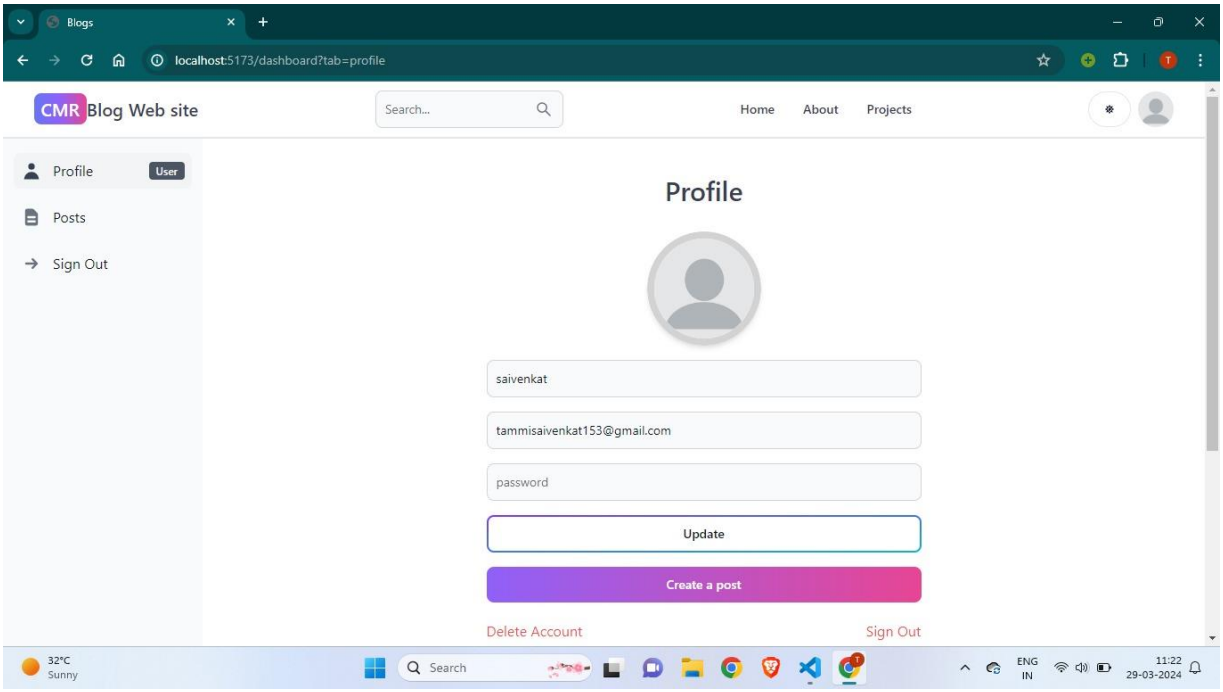

Figure-4.9 User profile page

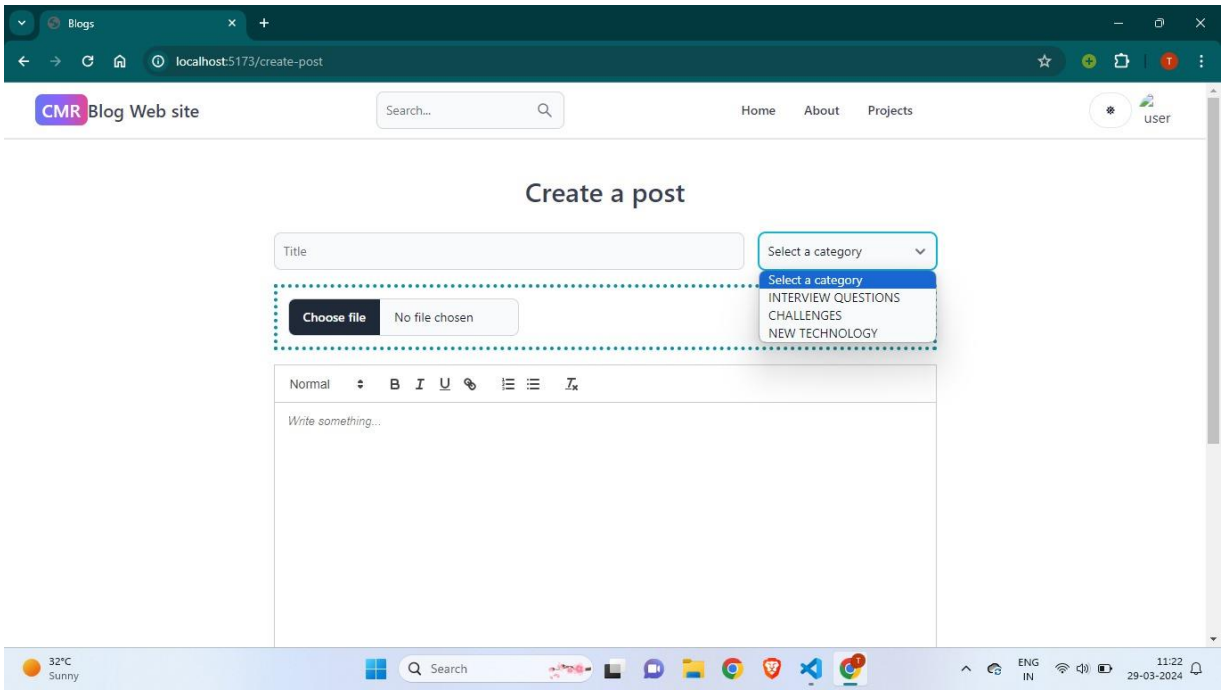

Figure-4.10 Blog creation

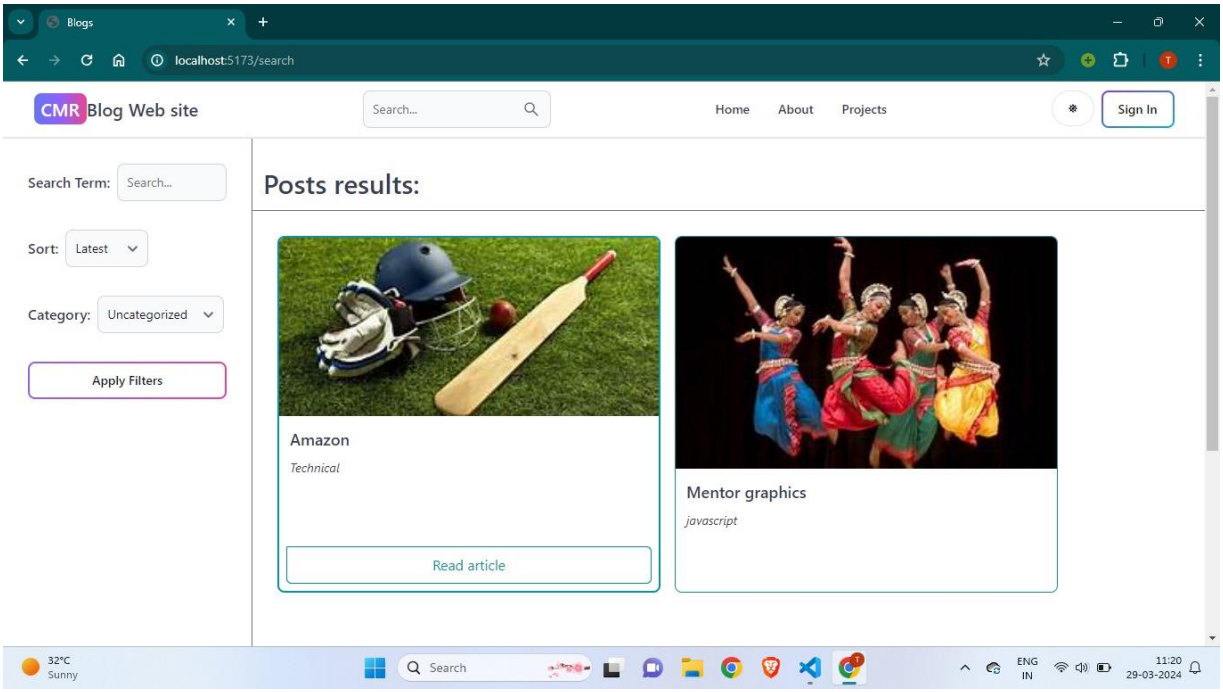

Figure-4.11 Filters on blogs

CHAPTER 5
CONCLUSION

CHAPTER 5

CONCLUSION

The development of the Blogs has addressed the problem of juniors lacking access to reliable and personalized feedback on their interview experiences. The platform has provided a structured and organized system for collecting feedback from seniors, enabling juniors to gain valuable insights and guidance for their career development.

Through surveys, interviews, and feedback analysis, it has been determined that the feedback provided by seniors has a significant impact on juniors' interview skills and overall employability. Juniors have reported using the feedback to make informed career decisions, improve their interview performance, and enhance their skills.

The project's system architecture, leveraging front-end technologies like HTML, CSS, and JavaScript, and utilizing Mongodb and firebase as the backend framework, has successfully facilitated efficient communication, and promoted transparency between seniors and juniors. The user experience of the web-based platform has been evaluated positively, with users finding it intuitive and user-friendly.

Furthermore, the project's research objectives have been achieved by exploring the effectiveness of feedback, understanding the needs of juniors, evaluating knowledge transfer, and assessing the impact on placement and internship programs. Ethical considerations and data privacy have also been given due importance throughout the project.

In conclusion, the Blogs has provided a valuable resource for juniors, enabling them to learn from the experiences of seniors, enhance their interview skills, and make informed career decisions. The project has fostered a culture of learning, growth, and knowledge sharing within the community, ultimately contributing to the professional development and success of the users.

FUTURE ENHANCEMENT

The future work of this project can focus on further enhancing and expanding the capabilities of the Blog. Here are some potential areas for future development:

1. Personalized Recommendations: Implement a recommendation system that provides personalized suggestions and recommendations to juniors based on their feedback and specific areas for improvement. This could involve leveraging machine learning algorithms to offer tailored guidance and resources.

2. Alumni Network Integration: Integrate the platform with an alumni network or professional networking platform to provide juniors with broader access to experienced professionals in their respective industries. This could facilitate mentorship opportunities and expand the knowledge-sharing network beyond just seniors from the same institution.

3. Industry Partnerships: Collaborate with industry partners to gather feedback and insights directly from employers and recruiters. This could provide juniors with a comprehensive perspective on industry expectations and trends, helping them align their skills and experiences accordingly.

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REFERENCES

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[6] Feedback Collection and Analysis: "Qualitative Inquiry and Research Design: Choosing Among Five Approaches" by John W. Creswell offers guidance on collecting and analyzing qualitative feedback.

Github link:

https://github.com/kraja1234/Major

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on March 11th & 12th 2024.

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BLOGS : GUIDING THE WAY FOR THE FUTURE.

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ABSTRACT- In the digital age, blogging has emerged as a powerful medium for individuals to share personal thoughts, opinions, experiences, and knowledge ondiverse topics. This democratization of publishing allows anyone with internet access to create and distribute content globally, making blogs a significant part of the online landscape. Serving as virtual mentors, blogs provide a vast treasure trove of knowledge, guidance, and inspiration for beginners, transforming the journey of starting something new into an exciting adventure of exploration and growth. In this supportive and enriching environment, blogs complement traditional media, fostering diverse voices and opinions, and continue to play a crucial role in shaping the online discourse. In summary, blogs provide a supportive and enriching environment for beginners. They offer knowledge, encouragement, and a sense of belonging, transforming the daunting task of starting something new into an exciting adventure of exploration and growth.

Keywords: *Blogs, Blogging, Personal thoughts, Opinions, Experiences, Knowledge sharing Digital age, Democratization of publishing, Onlinel and scape, Virtual mentors, Exploration Growth, Supportive environment, Traditional media, Diverse voices and opinions, challenges.*

Blogs :Guiding the way for the Future.

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ABSTRACT

In the digital age, blogging has emerged as a powerful medium for individuals to share personal thoughts, opinions, experiences, and knowledge on diverse topics. This democratization of publishing allows anyone with internet access to create and distribute content globally, making blogs a significant part of the online landscape. Serving as virtual mentors, blogs provide a vast treasure trove of knowledge, guidance, and inspiration for beginners, transforming the journey of starting something new into an exciting adventure of exploration and growth. In this supportive and enriching environment, blogs complement traditional media, fostering diverse voices and opinions, and continue to play a crucial role in shaping the online discourse. In summary, blogs provide a supportive and enriching environment for beginners. They offer knowledge, encouragement, and a sense of belonging, transforming the daunting task of starting something new into an exciting adventure of exploration and growth.

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INTRODUCTION

In the dynamic landscape of the digital age, blogging has emerged as a formidable medium, providing individuals with a platform to express personal thoughts, share opinions, narrate experiences, and disseminate knowledge on a myriad of topics. This phenomenon has not only democratized the process of publishing but has also transformed the way information is created, consumed, and shared globally. Blogs, as virtual canvases for self-expression, play a pivotal role in complementing traditional media by offering diverse voices and opinions. For beginners, these online spaces serve as invaluable resources, akin to virtual mentors, offering a rich tapestry of insights, guidance, and inspiration. This paper explores the profound impact of blogs on the digital landscape, emphasizing their role in fostering a supportive and enriching environment for individuals venturing into new realms of exploration and growth. In the ever-evolving digital landscape, blogging stands as a testament to the power of individual voices in shaping online discourse. As the internet continues to connect people across the globe, blogs have become more than just personal diaries; they are vibrant platforms for sharing perspectives, disseminating information, and fostering a sense of community. The democratization of publishing through blogs has allowed anyone with internet access to contribute to the vast repository of online content, challenging traditional hierarchies in information dissemination.

RELATED WORK

In [1] Investigating the historical evolution of blogging provides insights into the development of this medium. Early forms of blogging were often personal diaries, gradually evolving into diverse platforms covering a wide array of topics. Understanding this evolution is crucial for contextualizing the current role of blogs in the digital age.

In [2] Scholarly works exploring the democratization of publishing through blogs shed light on how this medium has empowered individuals to share their thoughts and perspectives on a global scale. Examining the impact of this democratization helps in understanding the shift in information dissemination dynamics

In [3] Research on the role of blogs in shaping online discourse provides valuable insights into how these platforms contribute to public conversations. Analyzing how blogs complement or challenge traditional media helps in understanding their significance in the broader media landscape.

In [4] Investigating the educational value of blogs, especially for beginners, involves exploring how these platforms act as virtual mentors. This involves assessing the quality of information, the diversity of topics covered, and the potential for skill development and knowledge acquisition for newcomers.

In [5] Works focusing on the community-building aspect of blogs and how they contribute to a sense of belonging are essential. Understanding how blogs create online communities, facilitate interactions, and provide emotional support helps in comprehending their social impact.

In [6] To present a comprehensive view, it is important to include literature discussing the challenges and critiques associated with blogging. This may include issues related to misinformation, the echo chamber effect, and concerns about the reliability of content on blogs.

In [7] Exploring how blogs interact with and complement traditional media provides a holistic view of the media landscape. Understanding the synergy or tension between these two forms of information dissemination contributes to a nuanced perspective on the role of blogs.

In [8] Investigating the influence of technological advances on blogging platforms is crucial. The evolution of platforms, user interfaces, and the integration of multimedia elements contribute to the overall user experience and accessibility of blogs.

In [9] Research exploring how blogs influence and shape social and cultural narratives is essential. This involves examining the role of blogs in promoting diversity, challenging stereotypes, and contributing to cultural conversations.

By systematically reviewing and synthesizing literature in these areas, one can construct a comprehensive understanding of the multifaceted role of blogs in the digital age. This foundation sets the stage for further exploration and analysis in the context of the current study.

PROPOSED SYSTEM

The envisioned blog platform is strategically crafted to serve as a comprehensive and dynamic resource, specifically tailored to cater to the needs of students navigating the realms of hackathons and job interviews within the technology sector. The primary goal is to equip students with the necessary insights, skills, and knowledge to thrive in the competitive landscape of technology-driven industries.

Platform Features:

User Authentication:

The platform ensures secure access through individualized login credentials, providing a personalized experience for each user. This authentication process safeguards user data and allows for a tailored interaction with the platform.

Categorical Search:

The platform offers a structured approach to information retrieval through categorical search functionalities. Users can explore content based on specific categories, enhancing efficiency and relevance in their quest for information.

a. Search via Companies:

Users can explore content related to specific companies, including company-specific interview experiences, hackathon participation, and insights into the company culture.

b. Interview Questions:

A curated collection of interview questions categorized by technical domains and industries, aiding students in targeted preparation for job interviews.

c. Competitive Coding Discussions:

Dedicated sections for discussions on competitive coding challenges, algorithmic problem-solving, and programming paradigms to foster a collaborative learning environment.

d. Feedbacks and Suggestions:

Users can access and provide feedback on various technologies, interview processes, and organizational experiences, fostering a community-driven knowledge-sharing platform.

e. Experiences and Job Insights:

Personal narratives and insights shared by individuals about their job experiences, challenges faced, and lessons learned, providing valuable real-world perspectives.

f. Challenges and Overcoming Obstacles:

A platform feature dedicated to sharing stories of overcoming challenges, be it in hackathons, interviews, or workplace scenarios, inspiring and guiding fellow users.

g. Hackathons Section:

A structured format for information related to hackathons, including announcements, participation guidelines, success stories, and post-event reflections.

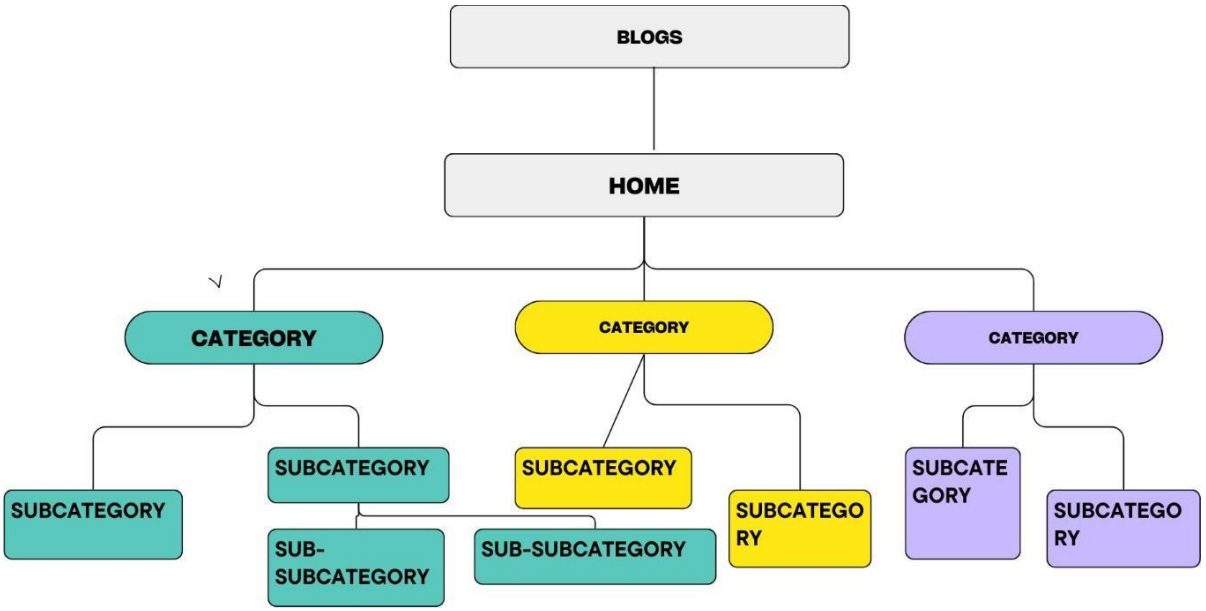

Fig 1: Proposed Model.

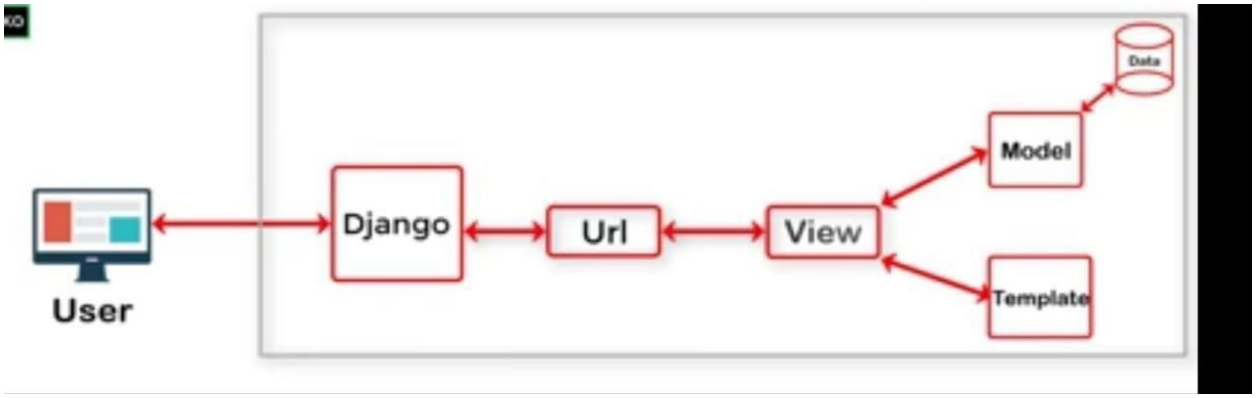

Fig 2:Block Diagram.

RESULTS & DISCUSSIONS

The effectiveness of the proposed blog platform can be assessed through a combination of user engagement metrics, feedback, and observed outcomes. The following details the key aspects of results and discussions:

User Engagement Metrics:

User Activity:

Track the number of active users, their frequency of visits, and the duration of their interactions with the platform. This provides insights into the overall engagement levels.

Content Interaction:

Monitor the popularity of different content categories (companies, interview questions, coding discussions, etc.) to understand user preferences and the relevance of provided information.

Comment and Discussion Participation:

Evaluate the level of user interaction through comments, discussions, and user-generated content. Higher engagement in discussions indicates an active and collaborative community.

Search Queries:

Analyze the search queries to identify popular topics and areas of interest. This helps in refining content and ensuring that the platform addresses the specific needs of users.

Feedback Collection:

User Surveys:

Conduct surveys to gather direct feedback from users regarding the platform's usability, content quality, and overall satisfaction. Identify areas for improvement based on user **s**uggestions**.**

Feedback Section:

Monitor the feedback and suggestions section of the platform to assess user-generated comments on specific technologies, companies, and experiences. This serves as a valuable source of qualitative feedback**.**

Observed Outcomes:

Skill Enhancement:

Assess whether users report improvements in their skills, particularly in areas such as competitive coding, interview preparation, and hackathon participation.

Community Building:

Evaluate the growth and vibrancy of the platform's community. A thriving community indicates successful networking and knowledge-sharing among users.

Success Stories:

Highlight success stories shared on the platform, showcasing instances where users applied insights gained from the blog in real-world scenarios, such as securing a job or excelling in a hackathon.

Diversity of Perspectives:

Examine the diversity of perspectives presented on the platform, ensuring that it accommodates experiences from individuals with varied backgrounds, skills, and career paths.

Discussion Points:

Platform Improvements:

Based on user feedback and observed outcomes, discuss potential improvements or enhancements to the platform, addressing any identified issues or areas for refinement.

Future Content Strategy:
Discuss the relevance and effectiveness of the current content strategy. Explore potential additions or modifications to cater to emerging trends, technologies, and user needs.
Community Engagement Strategies:
Propose strategies to further enhance community engagement, such as organizing virtual events, webinars, or collaborative projects within the platform.
Accessibility and Inclusivity:
Discuss measures taken to ensure the platform's accessibility across diverse devices and user demographics, emphasizing inclusivity in content representation.

By combining quantitative metrics, qualitative feedback, and observed outcomes, the results and discussions section provides a comprehensive evaluation of the proposed blog platform's impact on students' skills, knowledge, and overall experience in the technology and job interview domain.

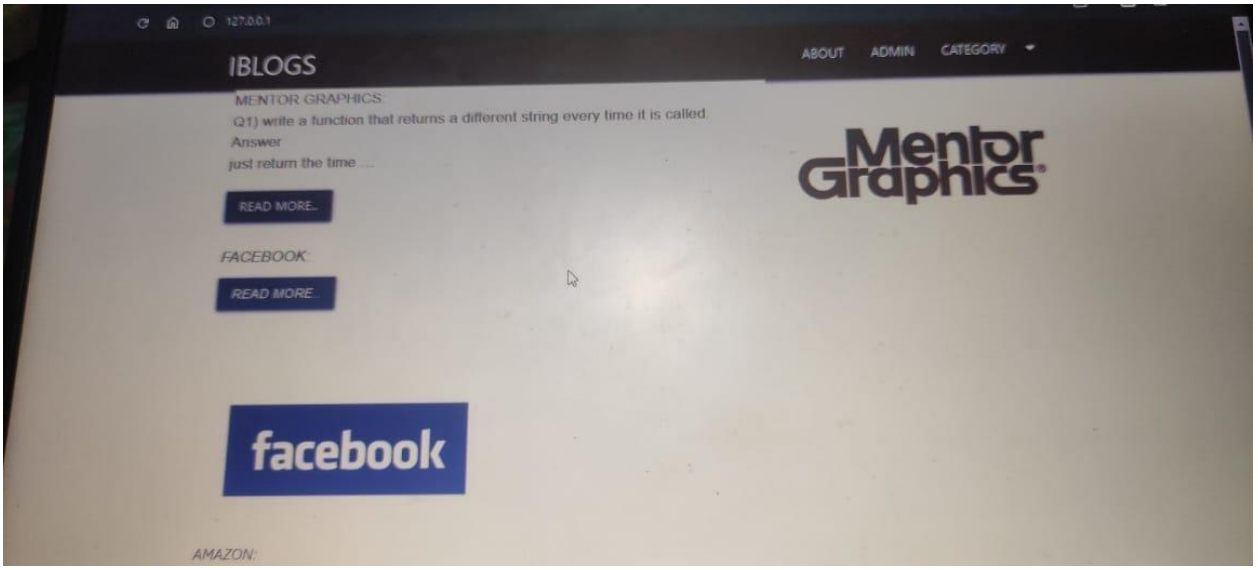

Fig 3: Result of Proposed System(blogs).

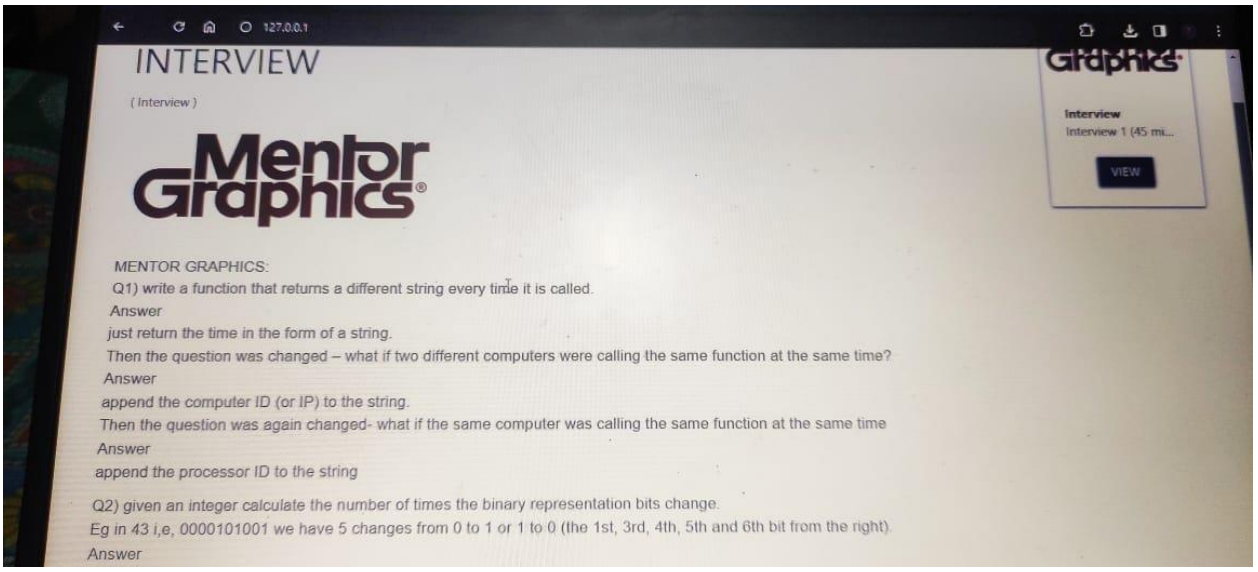

Fig 4: Interview Blog.

CONCLUSION

The development and implementation of the proposed blog platform aimed at providing comprehensive insights into hackathons and interviews for students have shown promising results and positive contributions to the educational landscape. The amalgamation of various features and functionalities has created a dynamic space that caters to the specific needs of students navigating the competitive world of technology and job interviews. Key Findings.

In conclusion, the proposed blog platform stands as a valuable asset in the educational landscape, providing students with a tailored and informative resource to navigate the complexities of hackathons and job interviews. The positive feedback, user engagement metrics, and observed outcomes affirm the platform's success in fulfilling its intended purpose. As the platform continues to evolve, it has the potential to make a lasting impact on the educational journey of students in the ever-evolving field of technology.

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has participated in the International Conference on Recent Trends in Engineering and Management Science (ICRTEM-2024) organised by Sai Spurthi Institute of Technology on March 11th & 12th 20224.

He / She has participated & presented the paper titled BLOGS: Guiding the way for the future.

Dr. Kishor Kumar .G
Organising Secretary

Dr. K. Bhakar Mutyalu
Programme Co-Convenor

Dr. V.S.R. Kumari
Programme Chair & Convenor

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Certificate of Participation

This is to certify that Prof./Dr./Mr./Ms. B. Ganesh, UG Student

has participated in the International Conference on Recent Trends in Engineering and Management Science (ICRTEM-2024) organised by Sai Spurthi Institute of Technology on March 11th & 12th 20224.

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