

**PERSONAL BLOG**  
**A MINI PROJECT REPORT**

*Submitted by*

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*in partial fulfillment for the course*

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**RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR**

**THANDALAM**

**CHENNAI – 602 105**

**MAY 2024**

# **RAJALAKSHMI ENGINEERING COLLEGE**

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## **BONAFIDE CERTIFICATE**

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## **ABSTRACT**

In the age of digital technology, the Personal Blog continues to be a lively platform where individuals can freely exchange ideas, discuss their experiences, and showcase their skills on a wide range of subjects. The objective of our project is to create a blog website that is interactive, stimulates active participation from the community, facilitates meaningful conversations, and facilitates the sharing of knowledge. Our platform aims to empower creators and readers by utilizing easy design, tailored user experiences, and comprehensive content management features. Our goal is to create a vibrant online community where people from many backgrounds can interact and feel included by focusing on accessibility, diversity, and user-driven content curation. Join us as we create a virtual environment where ideas bloom, conversations thrive, and viewpoints come together. Genuine connections and meaningful conversation are more vital than they have ever been. Creating a digital sanctuary where a variety of perspectives may be heard and ideas can grow is the goal of the blog website project that we are working on. Our platform aspires to transcend geographical and cultural boundaries by incorporating unique features such as interactive comment sections, collaborative content production tools, and curated subject channels. This will allow us to cultivate a worldwide community that is bonded by mutual respect and curiosity. We envision a platform where individuals can both learn from and inspire one another, thereby creating good change and collective progress. This will be accomplished by harnessing the power of storytelling, sharing expertise, and engaging in open discourse. This platform is dedicated to recollect blogs for years and reminisce the ideas for a longer time. These blogs intend to change the perspectives of people and make them look at things in new angles.

## ACKNOWLEDGEMENT

Initially we thank the Almighty for being with us through every walk of our life and showering his blessings through the endeavor to put forth this report. Our sincere thanks to our Chairman **Mr. S.Meganathan, B.E, F.I.E.,** our Vice Chairman **Mr. Abhay Shankar Meganathan, B.E., M.S.,** and our respected Chairperson **Dr. (Mrs.) Thangam Meganathan, Ph.D.,** for providing us with the requisite infrastructure and sincere endeavoring in educating us in their premier institution.

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## LIST OF ABBREVIATIONS

ABBREVIATION	ACRONYM
JS	Java Script
DOM	Document Object Model
VSC	Visual Studio Code
HTML	Hyper Text Markup Language
CSS	Cascading Style Sheet
UI	User Interface
HCI	Human Computer Interaction



# CHAPTER 1

## 1.1 INTRODUCTION

There is a domain that exists within the wide expanse of the internet, where every click leads to a multitude of voices and ideas, and that area is the Personal Blog. This realm is a tribute to the power of individual expression, community participation, and the unrelenting search of information. If you are interested in embarking on a journey of discovery, connection, and inspiration, we would like to extend a warm welcome to you on our blog website project. At the core of our activity is the conviction that every individual's voice carries significance, that every narrative is worthy of being told, and that every concept possesses the power to spark transformation. blogs function as digital sanctuaries in a world that is flooded with transient social media updates and algorithmic feeds. In these sanctuaries, authenticity is king, and interactions take place at a more leisurely pace.

By means of this initiative, we intend to carve out a space that honors the vastness of the human experience, the variety of points of view, and the limitless creativity that resides within each and every one of us. No matter if you are an aspiring writer, an experienced expert, or simply an inquisitive person looking for enlightenment, our blog website strives to be a guiding light in the midst of the huge digital world. However, our ambition goes beyond the simple act of publishing material; it covers the nurturing of a thriving community in which conversations thrive, connections are strengthened, and ideas transcend geographical bounds. We hope to cultivate an ecosystem in which every encounter inspires creativity, every discussion sparks insight, and every connection stimulates collaboration. This will be accomplished through the implementation of features such as interactive comment sections, topic-based forums, and collaborative content production tools.

## **1.2 OBJECTIVE**

The aim of this project is to create a blog website that is fully operational and adaptable using Visual Studio Code (VS Code). The main focus will be on designing a user-friendly interface, implementing a strong backend system, and prioritizing security and performance. We strive to utilize contemporary web development technologies and industry standards to construct a platform that offers an exceptional user experience while facilitating scalability and customization. Our goal is to enhance user experience by incorporating user identification, content management, and commenting functionality, enabling users to interact with the platform effortlessly. Our goal is to promote collaboration among team members and assure the maintainability of code by utilizing modular code design and integrating with version control systems. In addition, we give priority to security measures such as data encryption and authentication systems to protect user data. The website's responsiveness and load speeds will be improved by the implementation of performance optimization techniques, such as code minification and picture compression. In essence, our objective is to provide a thorough solution that not only fulfills the requirements of its consumers but also acts as a good educational tool for developers who are interested in web development utilizing VS Code and modern technologies.

## **1.3 EXISTING SYSTEM**

Before beginning the process of developing our blog website, it is vital to have a thorough understanding of the constraints and deficiencies that are inherent to the systems that are now in place within the area of blogging platforms. There are a multitude of platforms that are currently dominating the market. These platforms range from more conventional Content Management Systems (CMS) like WordPress to more contemporary alternatives like Medium and Substack. These platforms typically come with their own set of limitations and drawbacks, despite the fact that they offer a variety of capabilities for the development of content, publishing of content, and engagement opportunities with audiences. A large amount of technical experience is required for the configuration and modification

of many traditional content management system (CMS) systems, which restricts accessibility for novice users and artists working on a smaller scale. In addition, the sheer complexity of these systems can lead to bloated codebases and slow performance, particularly when significant amounts of traffic or content are being processed.

On the other hand, although more recent platforms such as Medium and Substack offer a more simplified user experience, they frequently place constraints on the ability to customize material and manage who owns it. Additionally, relying on platforms provided by third parties creates concerns regarding the protection of data, the various alternatives for monetization, and the long-term viability of the business. Furthermore, there are similar concerns that are associated with security risks, scalability issues, and a lack of compatibility with other tools and services that are present in all of the existing systems. Because of these inadequacies, there is a pressing need for a blogging platform that is more adaptable and user-focused, with an emphasis on simplicity, flexibility, and user empowerment. Our project intends to solve these gaps and create a solution that combines the finest parts of modern blogging platforms while limiting their limits. This will be accomplished by recognizing these weaknesses in the existing environment and ensuring that they are acknowledged. We want to create a blogging platform that allows artists from all walks of life to share their voices and connect with audiences all over the world. We want to do this by incorporating smart design, sturdy architecture, and features that are centered on the user. This will allow us to bridge the gap between expression and engagement in the digital age

## 1.4 PROPOSED SYSTEM

Our suggested blog website project introduces a complete and user-centric platform that tackles the inadequacies of existing systems and uses the newest web development technologies to revolutionize blogging. Our technology aims to make publishing, engaging, and building communities easy and powerful for creators. We prioritize simplicity and accessibility in our suggested solution. We know not all consumers have significant technical skills, therefore our platform will prioritize intuitive user interfaces and fast workflows to let artists focus on creating interesting content. Our platform will be user-friendly for all levels of skill, whether producing articles, sharing multimedia, or engaging in conversations.

Our proposed solution emphasizes flexibility and control along with usability. Our platform will offer many branding, layout, and design customization choices since we believe creators should be able to express themselves. From adjustable themes and templates to versatile content management capabilities, our platform lets creators personalize their online presence. To give people confidence, our system will prioritize security and privacy. We secure user data from hackers and data breaches by using strong authentication, data encryption, and proactive security measures. We will also give users extensive privacy settings to manage their data and content access.

Community building and engagement are also important to our suggested approach. We know blogging is about connecting with readers and other producers as well as publishing material. To that aim, our platform will have interactive comments, social network integration, and community forums for conversations, feedback, and project collaboration.

## **CHAPTER 2**

### **LITERATURE REVIEW**

The literature review done for this research explores the complex and diverse field of blogging technology, with the goal of identifying the crucial elements that enhance its efficacy as a platform for online information sharing. By incorporating findings from other researchers, our objective was to acquire a thorough comprehension of the distinctive characteristics that contribute to blogging being a favored method of communication in the modern era. By combining carefully selected information, we have discovered many main themes that highlight the importance of blogging in promoting the spread of information and the sharing of knowledge. The core of this discussion revolves around acknowledging the multifunctionality and ease of access of blogging, which enables people from various backgrounds to engage in both producing and consuming material. Researchers have emphasized the ability of blogging to overcome geographical limitations, allowing individuals to globally disseminate their viewpoints, personal encounters, and specialized knowledge.

Furthermore, our investigation emphasized the crucial significance of recent technology breakthroughs in influencing the current state of blogging activities. Researchers have highlighted the significant impact of technology on improving the functionality and user experience of blogging platforms. This includes the adoption of user-friendly content management systems and the incorporation of advanced data analytics tools. Furthermore, the discussion regarding privacy rules and data control has become essential in comprehending the ethical consequences of blogging technology. This emphasizes the requirement for strong measures to secure user privacy and ensure data security. In addition to its function as a means of sharing knowledge, our analysis uncovered the wide range of uses that blogging technology includes. Researchers have clarified how blogging goes beyond its conventional domain, demonstrating its usefulness in areas such as

marketing, education, community building, and data analysis. Scholars have provided empirical evidence and case studies to show that blogging may be a powerful instrument for promoting involvement, creating communities, and facilitating beneficial social change in different areas. Nevertheless, while blogging technology offers numerous advantages, our examination also revealed its inherent limitations and disadvantages. Challenges such as excessive amounts of information, exhaustion from digital activities, and the widespread dissemination of false information have been recognized as important issues that need to be carefully addressed when using blogging platforms. Furthermore, the importance of ongoing attention and ethical examination in the development and use of blogging technology is emphasized by problems related to data privacy, online harassment, and algorithmic biases. Our literature study offers a thorough examination of the complex characteristics of blogging technology, highlighting its effectiveness as a means of sharing information and analyzing its consequences and limitations. Our objective is to analyze information from many sources in order to gain a comprehensive picture of how blogging influences the digital world. This analysis will provide significant insights for practitioners, scholars, and policymakers.

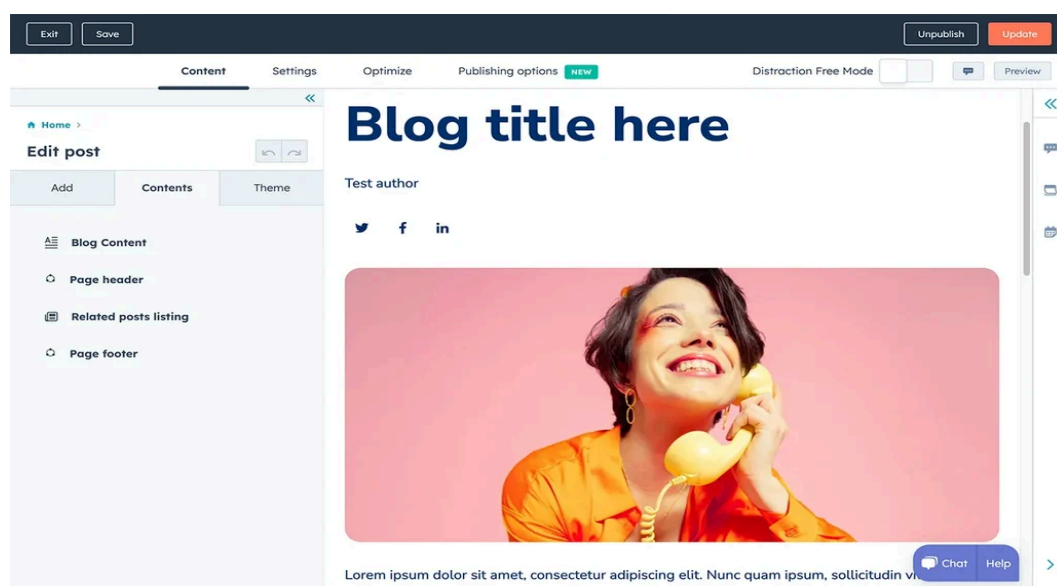


Fig.2.1 A Sample blog site

Asynchronous computer-mediated communication (ACMC) in classrooms is a growing topic of interest in education, although it needs more research. This study addresses this gap by analyzing how ACMC deployment improves students' writing skills and motivation in school. Student participation and interaction via professional blogs is central to this study. Students collaborate to comment on blog posts and interact with peers from other groups. ACMC tools allow students to discuss, exchange, and get feedback in a virtual environment outside the classroom.

This study shows that ACMC integration greatly motivates students. Students become more engaged and enthusiastic about writing by participating in professional blog discussions. Writing for a genuine audience gives pupils a sense of ownership and importance, encouraging them to work harder at their language output. Results show significant gains in pupils' writing skill and fluency. Students improve their written communication skills by blogging regularly. ACMC's collaborative environment helps students to improve their language abilities and pay more attention to grammar and precision. These data strongly suggest that blogs can help educators build linguistic skills. ACMC creates an immersive and engaging learning experience that goes beyond standard pedagogy by enabling true conversation and collaboration. This study concludes that ACMC, particularly professional blogs, can transform writing abilities and classroom participation. Further study is needed to determine ACMC's entire impact on educational results and inform digital pedagogy.

## **CHAPTER 3**

### **SYSTEM DESIGN**

#### **3.1 SYSTEM DESIGN**

The system flow of our blog project unfolds without any interruptions, providing users with an experience that is both rich and engaging from the very beginning to the very end. It all starts with user registration and authentication, which allows individuals to simply register accounts and authenticate their identities in order to obtain access to the entire range of capabilities that our platform provides. By virtue of the user-friendly content creation and management system, users are granted the ability to unleash their creative potential once they have successfully logged in. In this location, they are able to instantly create blog articles that are compelling, submit multimedia content, and easily arrange their contributions.

However, the purpose of our platform is not limited to the publication of content; rather, it includes the promotion of meaningful relationships and conversations. Users are able to communicate with one another, offer comments, and participate in active debates about issues that they are passionate about thanks to our robust commenting and engagement tools. Tools for moderation ensure that these interactions continue to be courteous and constructive, thereby contributing to the development of a community environment that is positive and welcoming to all. In order to give each user with a profile page that can be customized, we recognize that personalization is an essential component in improving the overall user experience. In this section, customers are able to exhibit their personality, view their own contributions, and control the settings of their account in order to personalize their experience according to their preferences. As a result of the seamless social sharing and integration capabilities, users are able to extend the reach of their content beyond the confines of our platform, thereby amplifying their voice and interacting with audiences across a variety of channels.



### 3.1.1 SYSTEM FLOW DIAGRAM

A flowchart is a type of diagram that represents an algorithm, workflow or process. The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. This diagrammatic representation illustrates a solution model to a given problem.

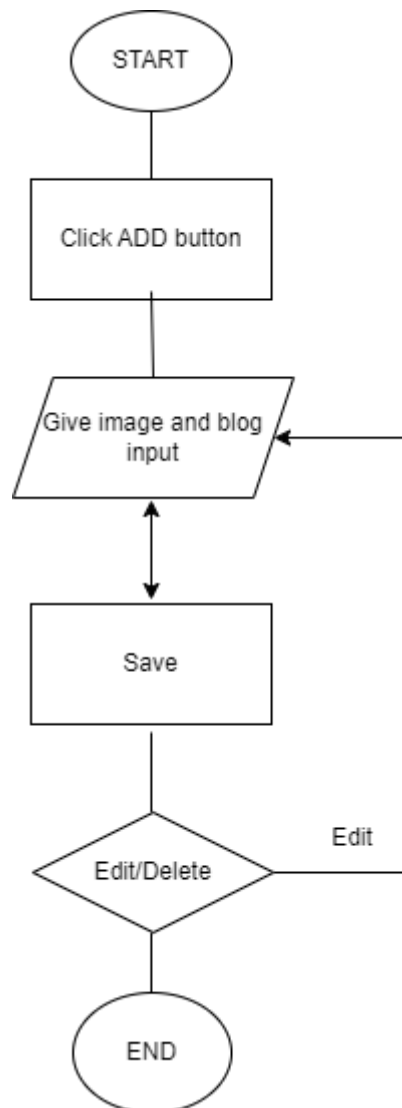


Figure 3.1.1 System Flow Diagram

### 3.1.2 ARCHITECTURE DIAGRAM

An architecture diagram is a graphical representation of a set of concepts that are part of an architecture, including their principles, elements and components. The architecture of the personal blog site depicts the flow of prototyping and user navigation flow.

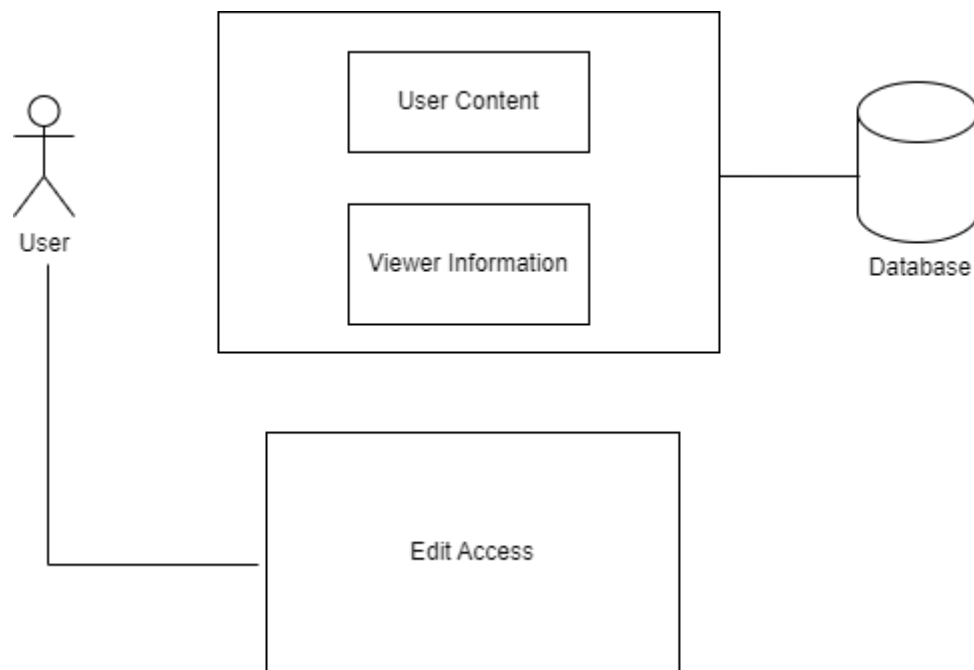


Fig 3.1.2 Architecture Diagram

The architecture of the system workflow includes the stages from the database reference to compare and it further analyzes the process of saving the dynamic blog articles created by each us

### 3.1.3 SEQUENCE DIAGRAM

A sequence diagram is a type of interaction diagram because it describes how—and in what order—a group of objects works together. The sequence of the app flow goes by the choosing of the product then selecting it for the cart and exiting the application after purchasing.

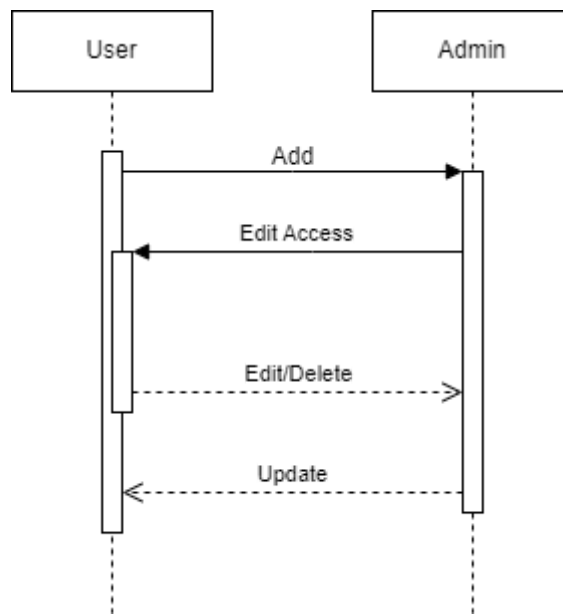


Fig 3.3.1 Sequence Diagram

## **CHAPTER 4**

### **PROJECT DESCRIPTION**

#### **4.1 MODULES**

The Blog project consists of a number of fundamental components that, when taken as a whole, constitute the main basis of our blog website. The Content Management Module gives users the ability to create, update, and organize their blog entries in a smooth manner, while the User Authentication Module gives users the ability to verify that the processes of user registration and login are secure. While the Backend Development Module is responsible for handling server-side functionality and database interactions, the User Interface Design Module is primarily concerned with the creation of an interface that is both user-friendly and aesthetically pleasing.

At the same time that the Security and Privacy Module protects user data and reduces potential security threats, the Commenting System Module makes it possible for users to engage in engaging conversations about blog entries. The Testing and Quality Assurance Module is responsible for ensuring the dependability and performance of our website, while the Deployment and DevOps Module is responsible for facilitating the deployment and maintenance of our website efficiently in production environments. A strong and user-friendly blogging experience is provided by these modules, which operate together in perfect harmony to perform their functions.

### **4.1.1 Software Discussion**

We want to construct a dynamic, user-friendly blog website that blends aesthetics and functionality using Visual Studio Code (VS Code). Our software solution will enable developers to create an immersive blogging experience for creators and readers using VS Code's flexible features. Our software solution relies on an intuitive user interface (UI) design tool in VS Code to help developers see and design blog page layouts. Developers can employ configurable themes, interactive widgets, and responsive design features to build a great blog page that engages visitors. The robust backend programming tools in VS Code allow developers to add crucial features like content management, user authentication, and comments. Developers may smoothly integrate these functionalities into the blog page using modern web development frameworks and tools, assuring easy navigation and optimal performance.

Our software also promotes scalability and flexibility, allowing developers to grow the blog page as needs change. Our software also prioritizes security and privacy with strong authentication, data encryption, and privacy settings to secure user data and prevent threats. Our software solution meets data privacy rules and boosts blog page credibility by following industry best practices. In conclusion, our software solution uses Visual Studio Code to produce a dynamic, feature-rich blog page with aesthetic appeal, functionality, and security. Our software solution helps developers create an immersive blogging experience for creators and readers with straightforward design tools, robust backend development capabilities, and an emphasis on scalability and privacy.

## CHAPTER 5

### OUTPUT SCREENSHOTS

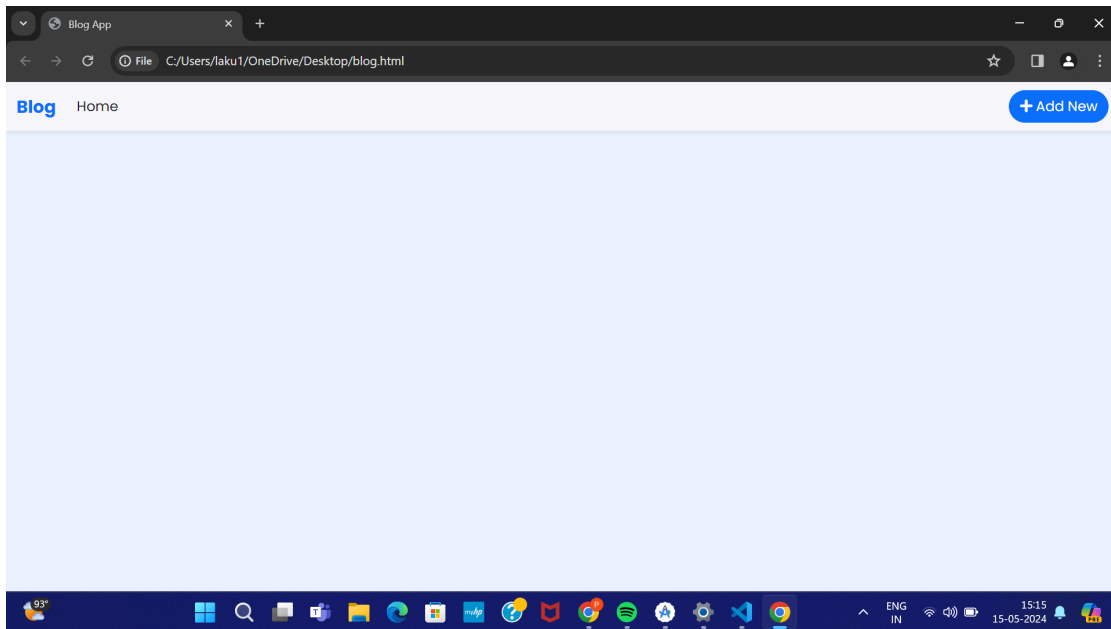


Fig.5.1 The Personal Blog's Home page

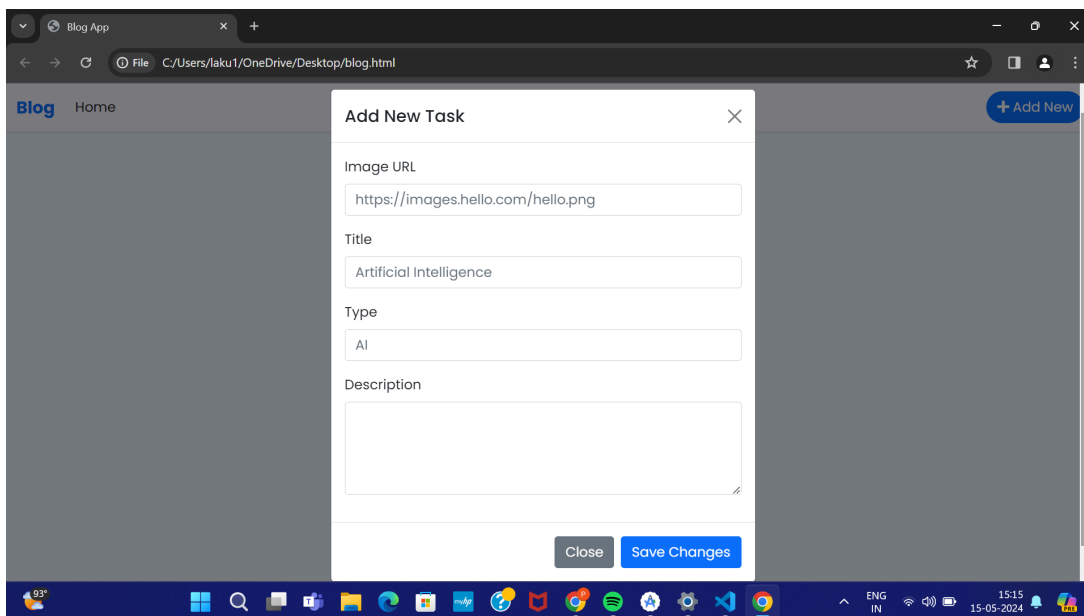


Fig.5.2 Creating a new personal blog

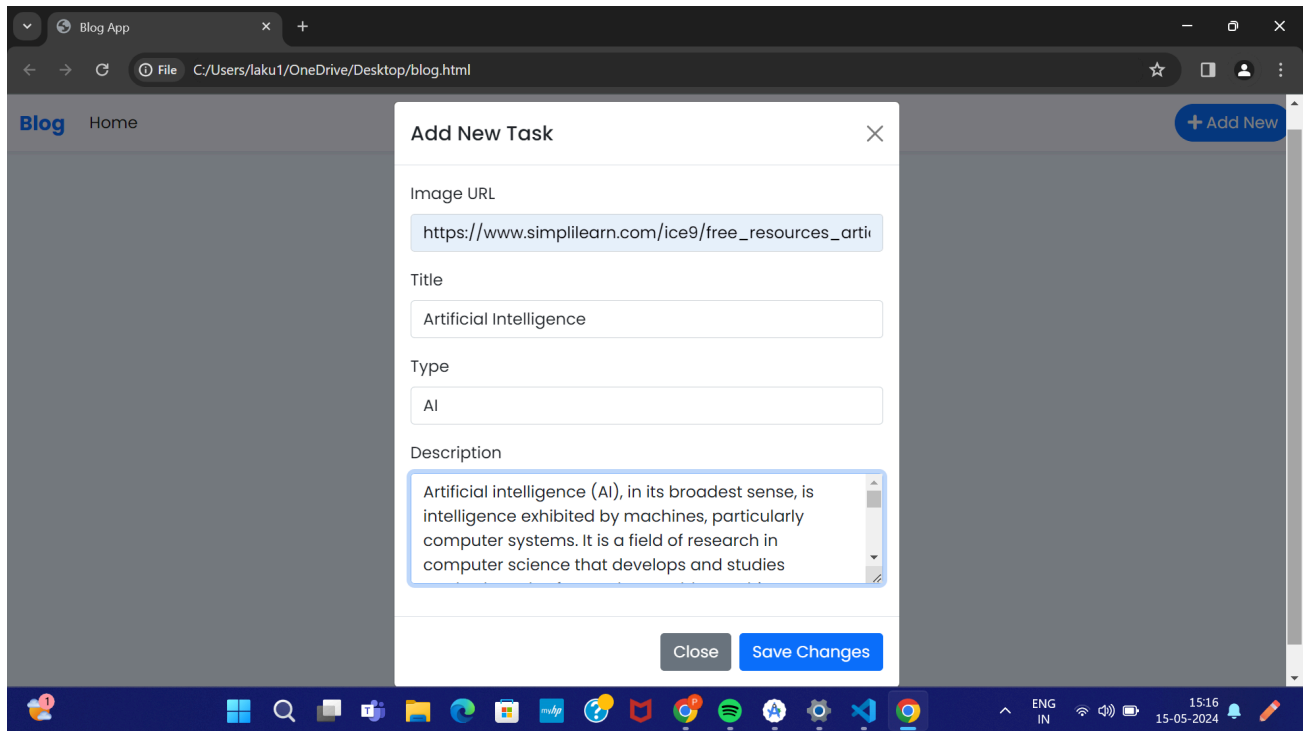


Fig.5.3 Editing the Blog

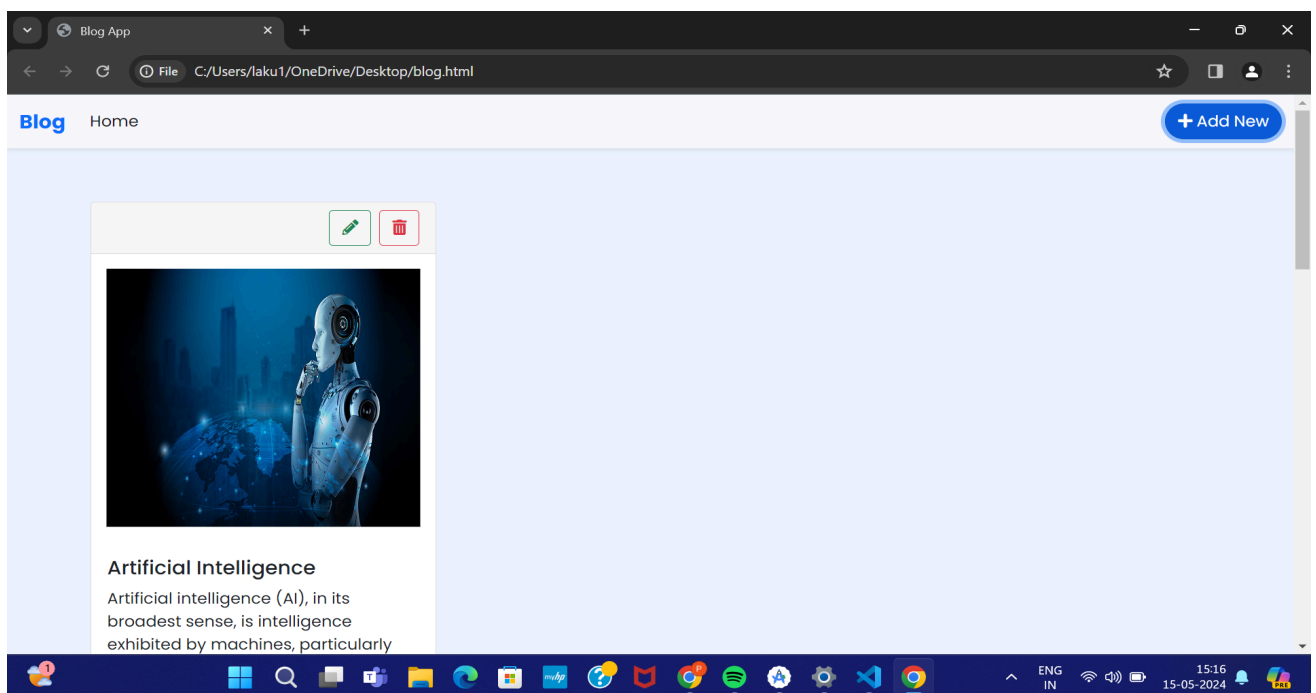


Fig.5.4 Saving the Blog

## **CHAPTER 6**

### **CONCLUSION**

Finally, developing a blog website with Visual Studio Code (VS Code) has been innovative, creative, and empowering. Using VS Code, we created a dynamic, user-friendly blogging platform that embodies modern web development. This project has shown how VS Code helps developers create immersive and engaging user experiences. VS Code has given us the tools to build a dynamic blog website, from intuitive UI design tools to strong backend development. Our investigation of VS Code's capabilities and functionalities has shown its importance as a fundamental tool for web development projects of all sizes and complexity. Its comprehensive debugging tools, seamless interaction with modern web technologies, and vast extension ecosystem have improved our development process and increased productivity. Our project also showed the value of teamwork, adaptability, and detail in blog website design. Teamwork, regular iteration, and careful user feedback have helped us adapt our platform to our audience's changing needs.

Our accomplishments and lessons learnt over this project remind us of VS Code's boundless potential to inspire web development innovation and creativity. VS Code has always been our trusted partner for building beautiful UI designs, implementing complex backend functions, and securing and scaling our platform. The modern web development landscape values cooperation, innovation, and constant progress, which our blog web basics project utilizing VS Code reflects. We are enthusiastic to investigate VS Code's possibilities and push web development's limits in the future. VS Code opens up unlimited options, and the experience is just beginning.



### HTML CODE:

The screenshot shows a VS Code editor window with a file named 'blog.html' open. The code is as follows:

```

1 <html lang="en">
2 <body onload="loadData()">
3   <!-- navbar -->
4   <nav class="navbar navbar-expand-md navbar-light bg-light shadow-sm">
5     <div class="container-fluid"> <a class="navbar-brand fw-bold text-primary" href="#">Blog</a>
6     <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="
7     </button>
8     <div class="collapse navbar-collapse" id="navbarSupportedContent">
9       <ul class="navbar-nav me-auto mb-2 mb-lg-0">
10        <li class="nav-item"> <a class="nav-link active" aria-current="page" href="#">Home</a>
11        </li>
12      </ul>
13      <button type="button" class="btn btn-primary rounded-pill" data-bs-toggle="modal" data-bs-target="#staticBackdrop"><i class
14    </div>
15  </nav>
16  <div class="container">
17    <section>
18      <div class="row blog_container mt-5 mb-3 ">
19      </div>
20    </section>
21  </div>
22  <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js" integrity="sha384-IQsoLX15PILFhosVNUbq5LC7Qb9DXg
23  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.min.js" integrity="sha384-Atwg2Pkwv9vp0ytgn1JAoJH8nYbWJNLPh
24  <script src="script.js"></script>
25 </body>
26 </html>

```

The status bar at the bottom shows 'Restricted Mode' and various icons. The file explorer on the left shows the file 'blog.html'.

## CSS CODE:

```
File Edit Selection View Go Run ... Search
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

# blogstyle.css x
C:\Users\laku1> OneDrive > Desktop > # blogstyle.css > *
1 {
2   margin: 0;
3   padding: 0;
4   box-sizing: border-box;
5 }
6
7 body {
8   font-family: "Poppins", sans-serif;
9   background-color: #ebf2ff;
10 }
11
12 .card-img-top {
13   padding: 15px;
14   height: 300px;
15   width: auto;
16 }
17
18 .place_holder_image {
19   width: 100%;
20 }
```

## JS CODE:

```
File Edit Selection View Go Run ... Search
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

JS scriptjs x
C:\Users\laku1> OneDrive > Desktop > JS scriptjs > ...
1 // targeting the parent element
2 const blogContainer = document.querySelector('.blog_container');
3 const blogModal = document.querySelector(".blog_modal_body");
4 // global
5 let globalStore = [];
6
7 // -----
8 // a function for creating a new card
9 const newCard = ({
10   id,
11   imageUrl,
12   blogTitle,
13   blogType,
14   blogDescription
15 }) => `<div class="col-lg-4 col-md-6" id=${id}>
16 <div class="card m-2">
17   <div class="card-header d-flex justify-content-end gap-2">
18     <button type="button" class="btn btn-outline-success" id=${id} onclick="editCard.apply(this, arguments)"><i class="fas fa-pencil-alt"
19     <button type="button" class="btn btn-outline-danger" id=${id} onclick="deleteCard.apply(this, arguments)"><i class="fas fa-trash-alt"
20   </div>
21   <img
22     src=${imageUrl}
23     class="card-img-top" alt="..."
24   <div class="card-body">
25     <h5 class="card-title">${blogTitle}</h5>
26     <p class="card-text">${blogDescription}</p>
27     <span class="badge bg-primary">${blogType}</span>
28   </div>
```

```
File Edit Selection View Go Run ... Search
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

JS scriptjs x
C: > Users > laku1 > OneDrive > Desktop > JS scriptjs > ...

36 // -----
37 const loadData = () => {
38
39   // access localStorage
40   // localStorage.getItem("blog") === localStorage.blog
41   const getInitialData = localStorage.blog; // if null, then
42   if (!getInitialData) return;
43
44   // convert stringified-object to object
45   const {
46     cards
47   } = JSON.parse(getInitialData);
48
49   // map around the array to generate HTML card and inject it to DOM
50   cards.map((blogObject) => {
51     const createNewBlog = newCard(blogObject);
52     blogContainer.insertAdjacentHTML("beforeend", createNewBlog);
53     globalStore.push(blogObject);
54   });
55 };
56
57 const updateLocalStorage = () => {
58   localStorage.setItem("blog", JSON.stringify({
59     cards: globalStore
60   }));
61 }
62
63 // function for save changes-----
Ln 1, Col 1 Tab Size: 4 UTF-8 CRLF {} JavaScript
```

```
File Edit Selection View Go Run ... Search
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

JS scriptjs x
C: > Users > laku1 > OneDrive > Desktop > JS scriptjs > ...

211 const htmlModalContent = ({
212   const date = new Date(parseInt(id));
213   return `<div id=${id}>
214     <img
215       src=${imageUrl}
216       alt="bg image"
217       class="img-fluid place_holder_image mb-3 p-4"
218     />
219     <div class="text-sm text-muted ">Created on ${date.toDateString()}</div>
220     <h2 class="my-5 mt-5" style="display:inline;">${blogTitle}</h2>
221     <span class="badge bg-primary">${blogType}</span>
222     <p class="lead mt-2">
223       ${blogDescription}
224     </p></div>`;
225   });
226
227 const openBlog = (event) => {
228   event = window.event;
229   const targetID = event.target.id;
230
231   const getBlog = globalStore.filter(({
232     id
233   }) => id === targetID);
234   // console.log(getBlog[0]);
235   blogModal.innerHTML = htmlModalContent(getBlog[0]);
236 };
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```

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