



## Scribble Pad

The blog writing WebApp

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A documentation for the application of  
Scribble Pad

CSIS  
Northwest Missouri State University  
USA  
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# 1 Abstract

Certainly! Scribble Pad functions as an online platform tailored to facilitate users in sharing their blogs and writings, accessible to a broad audience via our webpage. It offers an array of robust functionalities, including the ability to create, edit, delete, view, and comment on posts. Moreover, it incorporates access controls, enabling specific users to manage and interact with content based on assigned permissions.

The development of Scribble Pad relied on a Spring Boot application, leveraging a technology stack that comprises Java, HTML, CSS, Bootstrap, and employing SQL for efficient data storage. The core objectives center around disseminating information about the diverse facets existing within Northwest Missouri. These facets encompass a wide spectrum, ranging from updates on sports events to cultural happenings and various miscellaneous activities.

The primary goal is to establish a centralized platform serving as an information hub for the multifaceted occurrences and events within Northwest Missouri. By providing a space for individuals to share their insights and information across different sectors, Scribble Pad aims to be a comprehensive resource offering a comprehensive overview of the vibrant landscape in Northwest Missouri.

## 2 Introduction

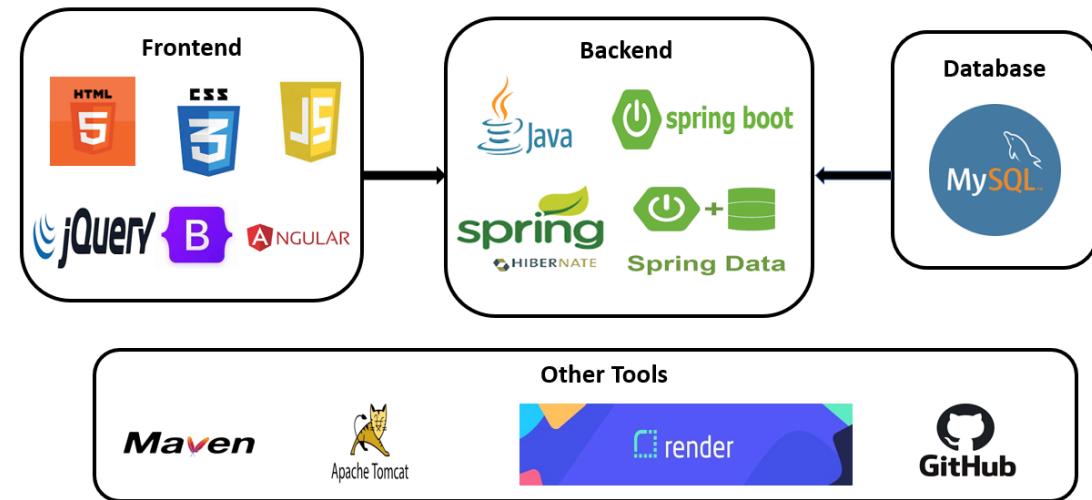
ScribblePad is more than just a blog writing tool; it's an innovative web application meticulously designed to cater to the needs of writers. At the heart of our platform lies a fundamental mission: to empower and support creators in sharing their thoughts, insights, and stories.

Our commitment centers on creating an environment that prioritizes writers' needs, providing them with the necessary tools and features to effortlessly craft and publish their content. We strive to offer a user-friendly interface, intuitive writing tools, and a range of customization options to ensure that expressing ideas remains a seamless and enjoyable process.

Moreover, ScribblePad aims to facilitate meaningful connections between writers and their audience. We understand the importance of building a community around shared interests and passions. Hence, our platform fosters interaction, allowing readers to engage with writers, share feedback, and participate in discussions, thereby creating a dynamic and lively online community.

By nurturing this symbiotic relationship between writers and readers, ScribblePad aims to be more than just a blogging platform. We aspire to be a hub where ideas flourish, conversations thrive, and connections are forged, contributing to the growth and enrichment of an inclusive and vibrant online community.

## 3 Tools and Technologies



### **3.1 Html**

HTML, or HyperText Markup Language, is the standard language used to create web pages, defining their structure and content using tags and elements.

### **3.2 Css**

CSS (Cascading Style Sheets) is a language used to style the appearance of web pages, enabling the design and layout of elements for enhanced visual presentation and user experience.

### **3.3 JavaScript**

JavaScript is a versatile programming language commonly used to create dynamic and interactive elements on web pages, enabling functionalities like animations, form validations, and responsive interfaces.

### **3.4 JQuery**

jQuery is a fast, concise, and widely-used JavaScript library that simplifies interaction between JavaScript and HTML, streamlining tasks like DOM manipulation, event handling, and AJAX requests, making web development more efficient and straightforward.

### **3.5 Bootstrap**

Bootstrap is a popular front-end framework that simplifies web development by providing pre-designed templates, CSS and JavaScript components, allowing for the creation of responsive and visually appealing websites or web applications.

### **3.6 Angular**

Angular is a TypeScript-based open-source framework developed by Google for building client-side web applications. It allows developers to create dynamic and robust applications using a structured architecture, data binding, modularization, and a range of tools and libraries.

### **3.7 Java**

Java is a widely-used, high-level, object-oriented programming language known for its portability, reliability, and security. It's commonly used for developing various applications, including web, mobile, enterprise, and desktop software. Java supports features like platform independence, strong memory management, and a vast ecosystem of libraries and frameworks.

### **3.8 SpringBoot**

Spring Boot is an open-source Java-based framework that simplifies and accelerates the process of creating stand-alone, production-grade, and Spring-based applications. It provides a comprehensive platform with pre-configured settings and conventions, allowing developers to quickly set up and deploy applications while focusing on building features rather than configuring the infrastructure.

### **3.9 Spring+Data**

Spring Data is a part of the larger Spring ecosystem that simplifies the development of data access layers in applications. It offers a unified and consistent API for working with various data storage technologies such as relational databases, NoSQL databases, and more. Spring Data provides abstraction layers and common interfaces to streamline database interactions, reducing boilerplate code and allowing developers to focus on application logic rather than intricate data access operations.

### **3.10 Spring Hibernate**

Spring Hibernate is an integration that combines the Spring framework and Hibernate ORM (Object-Relational Mapping). It allows developers to leverage the functionalities of both frameworks: Spring provides comprehensive support for building enterprise applications, while Hibernate simplifies database interactions by mapping Java objects to database tables. This integration facilitates the development of robust, scalable, and maintainable applications by combining the strengths of both technologies.

### **3.11 MySQL**

MySQL is an open-source relational database management system (RDBMS) that uses Structured Query Language (SQL). It enables users to store, manage, and retrieve data efficiently. MySQL is widely used for various applications, from small-scale websites to large-scale enterprise systems, offering robust features, reliability, and scalability for handling diverse data storage and retrieval needs.

### **3.12 Maven**

Maven is a powerful build automation tool primarily used for Java projects to manage the project's build lifecycle, dependencies, and deployment. It simplifies the development process by providing a standardized way to manage project builds, dependencies, and configurations. Maven employs a project object model (POM) to define project structures, dependencies, and plugins, streamlining the software build process and facilitating project management.

### **3.13 Apache Tomcat**

Apache Tomcat, often referred to simply as Tomcat, is an open-source web server and servlet container developed by the Apache Software Foundation. It provides an environment for running Java-based web applications by implementing the Java Servlet, JavaServer Pages (JSP), and related technologies. Tomcat functions as a lightweight and efficient server, handling HTTP requests, managing web applications, and serving web pages to users' web browsers. It's widely used due to its simplicity, ease of configuration, and compatibility with various Java-based web applications.

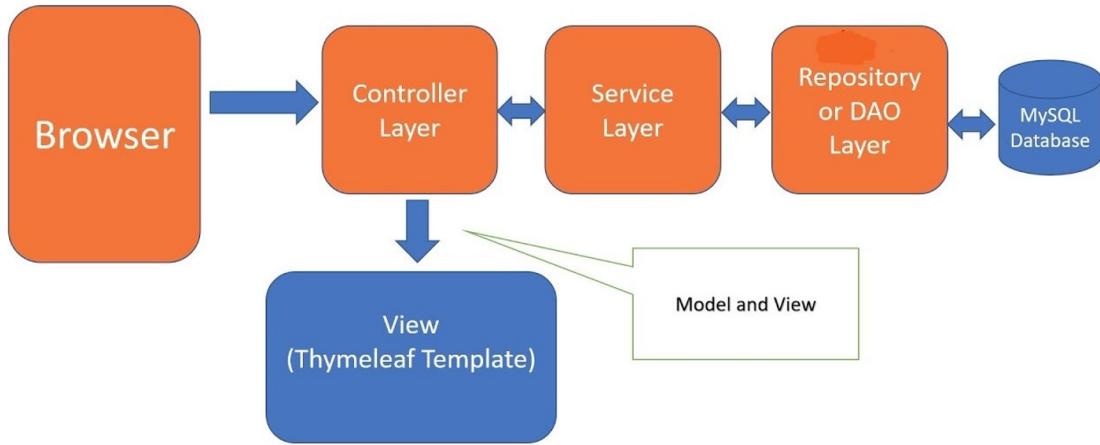
### **3.14 Render**

"Render" generally refers to the process of generating or displaying something, particularly in the context of computer graphics, web development, or visual representation. In computer graphics, it involves creating an image or a visual output from a model or data. In web development, rendering typically refers to the generation of HTML, CSS, and JavaScript to display a web page in a browser based on the provided code and instructions.

### **3.15 Github**

GitHub is a widely-used web-based platform for version control using Git. It allows developers and teams to collaborate on software development projects by providing tools for managing code repositories, tracking changes, and facilitating collaboration among contributors. Developers use GitHub to host their Git repositories, manage code branches, track issues, propose changes via pull requests, and collaborate on software projects, making it a popular choice for open-source contributions and team-based development.

## 4 Architecture Diagram



### 4.1 Browser:

A user initiates an action by making a request from the browser. This request is sent to the Controller layer.

### 4.2 Controller Layer:

The Controller receives the request and handles it. It is responsible for processing the user's input, interacting with the appropriate services, and determining the right response. In Spring MVC, this layer is represented by the @Controller annotated classes.

### 4.3 Service Layer:

After receiving the request, the Controller delegates tasks to the Service layer. Here, the business logic is executed. The Service layer (@Service annotated classes) contains methods that perform various operations required by the application.

### 4.4 Repository/DAO Layer:

The Service layer interacts with the Repository or DAO (Data Access Object) layer. This layer is responsible for handling data access and manipulation. It communicates with the database (in this case, MySQL) to perform CRUD (Create, Read, Update, Delete) operations on the data. It typically consists of @Repository annotated classes.

### 4.5 MySQL Database:

Finally, the Repository or DAO layer communicates with the MySQL database to fetch or store data according to the requests received from the Service layer.

## 5 UsernamesPasswords:

### 5.1 Credentials For MySQL Workbench:

Username: demo

Password: Demos123@

In our project, a database has been established using specific credentials. These credentials are adjustable to suit the user's requirements or preferences.

## 5.2 Credentials For Admin:

The access to the admin page can be gained by using the \admin route.

## 6 Results

ScribblePad

Address:  
800 University Dr,  
Maryville, MO 64468

Contact Information:  
(660) 562-1212

NORTHWEST  
MISSOURI STATE UNIVERSITY

SIGN UP

Register Here!!

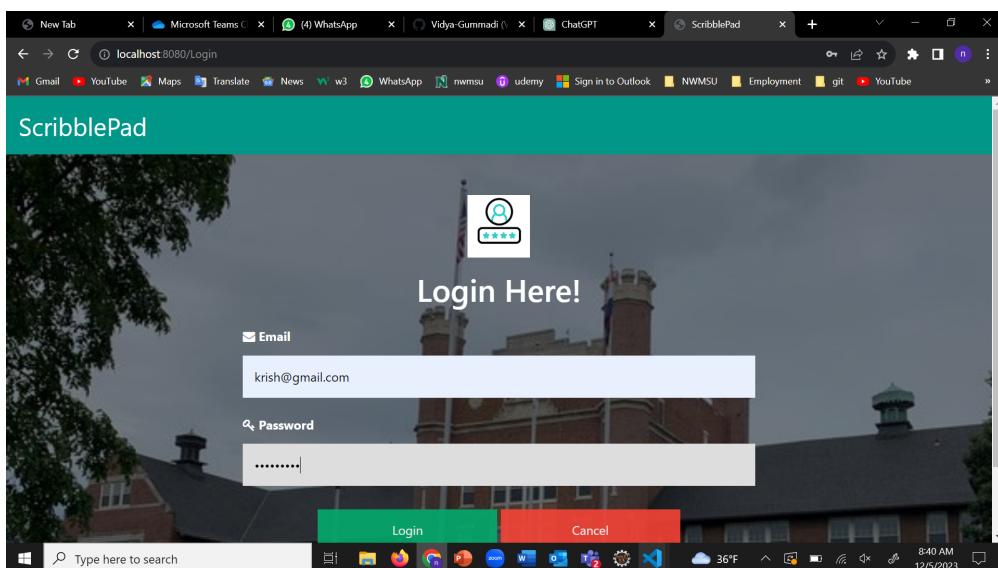
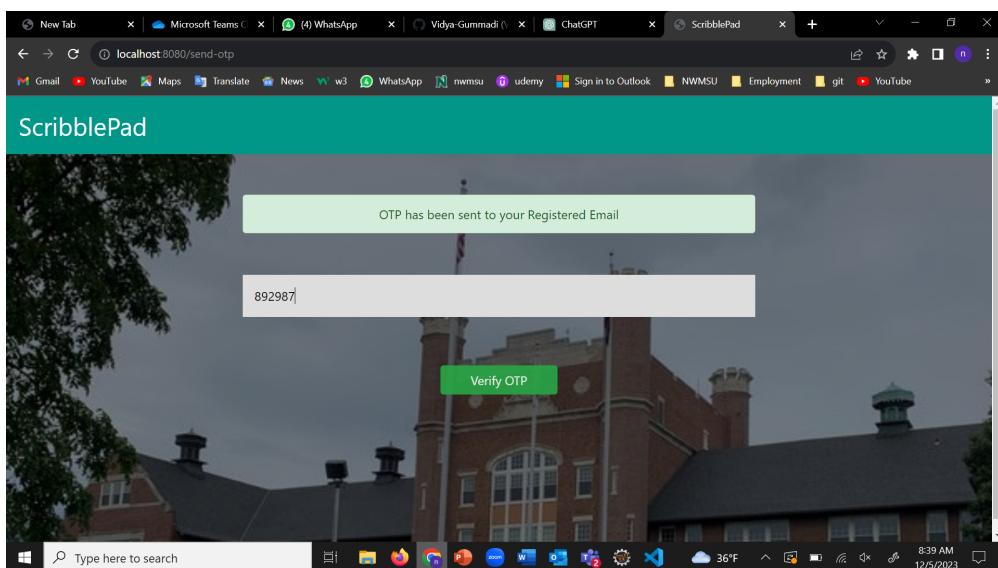
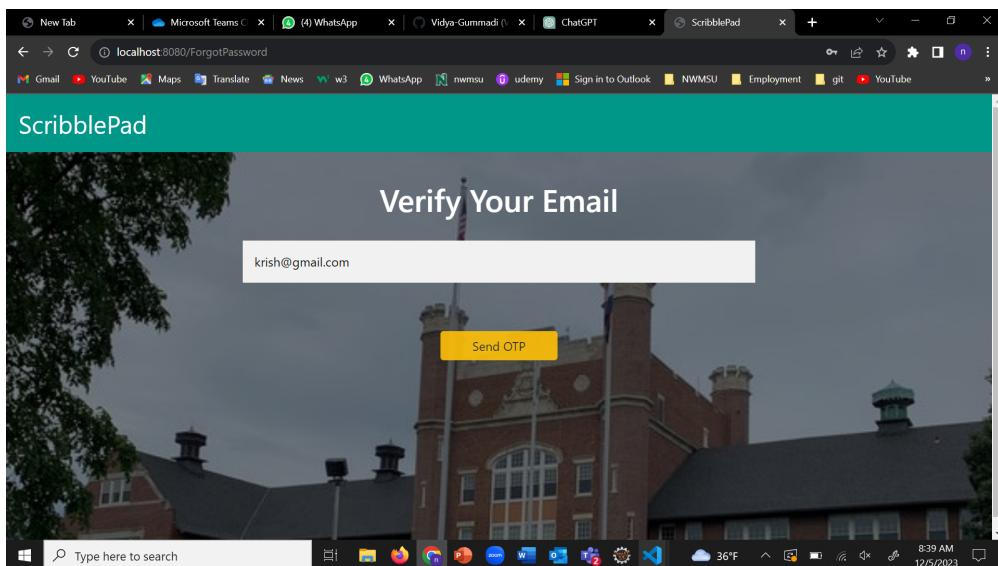
First Name

Last Name

Email

Password

SIGN UP



ScribblePad

Welcome, Krish K

## Northwest Missouri State University Blogs

MARYVILLE, MO, US

The ScribblePad is a blogging website for the Northwest community. Anyone with an email address at nwmissouri.edu can start writing.

[Library](#)

[Sports](#)

[Culture](#)

[Miscellaneous](#)

localhost:8080/library/0

CHOOSE A CATEGORY: Library

Title here.....

Content here.....

UPLOAD ATTACHMENT Publish

S New Tab x (4) WhatsApp x Vidya-Gummi x ChatGPT x My Posts x Library - Wiki x EBSCOhost Lo x +

localhost:8080/mylibraryposts/0?year=2023&month=12

Gmail YouTube Maps Translate News w3 WhatsApp nwmsu udemy Sign in to Outlook NWMSU Employment git YouTube

SELECT YEAR: 2024 ▾

SELECT MONTH: January ▾

Filter Posts

## My Posts

Back

### Library Post 1

STATUS : PENDING View

A library is a collection of books, and possibly other materials and media, that is accessible for use by its members and members of allied institutio...



0 comments

New Tab x (4) WhatsApp x Vidya-Gummi x ChatGPT x Home x Library - Wiki x EBSCOhost Lo x +

localhost:8080/admin

Gmail YouTube Maps Translate News w3 WhatsApp nwmsu udemy Sign in to Outlook NWMSU Employment git YouTube

## ScribblePad

POSTS TO REVIEW DECLINED POSTS

Posts to review

ID	Date	Category	Title	Post Author	Action
26	2023-12-05	library	Library Post 1	Krish K	<a href="#">View</a>

New Tab x (4) WhatsApp x Vidya-Gummi x ChatGPT x View-Post x Library - Wiki x EBSCOhost Lo x +

localhost:8080/adminView/26

Gmail YouTube Maps Translate News w3 WhatsApp nwmsu udemy Sign in to Outlook NWMSU Employment git YouTube

### Library Post 1

Back Approve Reject

A library is a collection of books, and possibly other materials and media, that is accessible for use by its members and members of allied institutions. Libraries provide physical (hard copies) or digital (soft copies) materials, and may be a physical location, a virtual space, or both. A library's collection normally includes printed materials which may be borrowed, and usually also includes a reference section of publications which may only be utilized inside the premises. Resources such as commercial releases of films, television programmes, other video recordings, radio, music and audio recordings may be available in many formats. These include DVDs, Blu-rays, CDs, cassettes, or other applicable formats such as microform. They may also provide access to information, music or other content held on bibliographic databases.



New Tab x Type here to search

8:46 AM 12/5/2023

ScribblePad

HOME LIBRARY POSTS MY POSTS

SELECT YEAR: 2024 ▾

SELECT MONTH: January ▾

Filter Posts

## Library Post 1

View

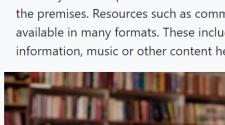
A library is a collection of books, and possibly other materials and media, that is accessible for use by its members and members of allied institutio....



8:46 AM  
12/5/2023

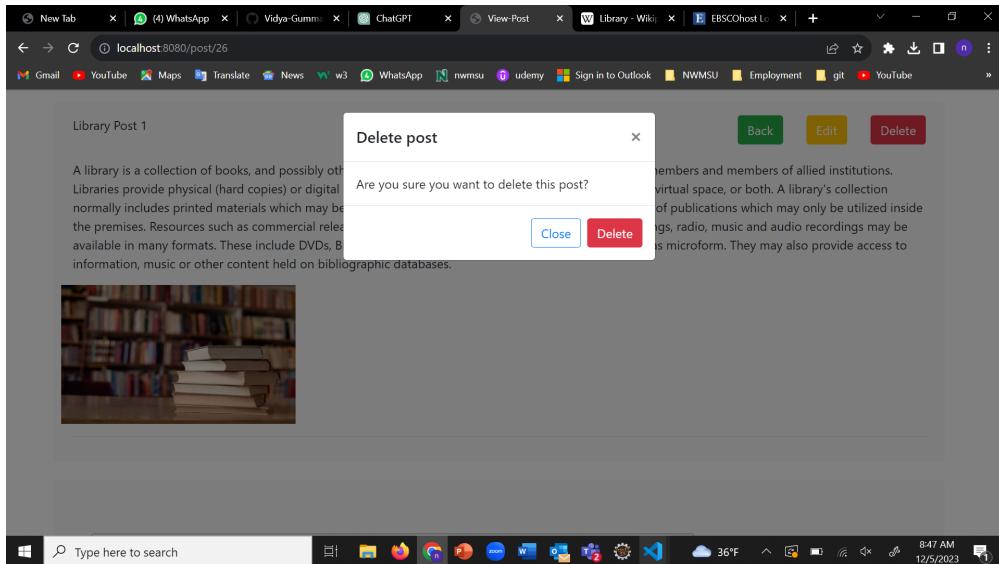
Library Post 1

A library is a collection of books, and possibly other materials and media, that is accessible for use by its members and members of allied institutions. Libraries provide physical (hard copies) or digital (soft copies) materials, and may be a physical location, a virtual space, or both. A library's collection normally includes printed materials which may be borrowed, and usually also includes a reference section of publications which may only be utilized inside the premises. Resources such as commercial releases of films, television programmes, other video recordings, radio, music and audio recordings may be available in many formats. These include DVDs, Blu-rays, CDs, cassettes, or other applicable formats such as microform. They may also provide access to information, music or other content held on bibliographic databases.



Back Edit Delete

A screenshot of a Microsoft Edge browser window. The address bar shows 'localhost:8080/post/edit/26'. The main content area displays a form for editing a post. At the top left is a dropdown menu labeled 'CHOOSE A CATEGORY: Library'. Below it is a title 'Library Post 1'. A rich text editor toolbar is visible, featuring buttons for bold, italic, underline, font style ('Segoe UI'), font size ('A'), alignment ('align-left', 'align-center', 'align-right'), lists ('list-item', 'list-ordered'), tables ('table'), and other common editing functions like cut, copy, paste, and find/replace. The main text area contains a paragraph about what a library is, followed by a stack of books image. The bottom of the screen shows the Windows taskbar with various pinned icons.



## 7 Discussion

**User Experience and Interface:** Discuss the user interface and experience offered by Scribble Pad. How intuitive and user-friendly is the platform? Are there any specific features that enhance the writing or reading experience?

**Content Diversity and Quality:** Highlight the diversity and quality of content available on Scribble Pad. Discuss how the platform encourages writers to explore various topics and genres. Are there any measures in place to ensure the quality and authenticity of published content?

**Community Engagement:** Explore how Scribble Pad fosters interaction between writers and readers. Discuss the level of engagement within the community, such as comments, discussions, and feedback mechanisms. How does this engagement contribute to the overall experience on the platform?

**Technological Infrastructure:** Delve into the technological aspects of Scribble Pad. Discuss the technology stack used, its scalability, and how it supports the platform's functionalities. Are there any future technological enhancements planned?

**Content Management and Moderation:** Discuss the measures in place for content management and moderation. How are inappropriate or spammy content handled? Are there tools for users to report or flag content, and how responsive is the moderation team?

**Future Development and Expansion:** Explore the roadmap for Scribble Pad's future development. Are there any upcoming features, enhancements, or expansions planned for the platform? How does the platform aim to evolve to meet the changing needs of its users?

**Collaboration and Partnerships:** Discuss any collaborations or partnerships Scribble Pad has with writers, organizations, or other platforms. How do these collaborations benefit the platform and its users?

**Feedback and Improvement:** Encourage discussions about users' experiences and suggestions for improvement. How responsive is the Scribble Pad team to user feedback? Have there been instances where user feedback led to significant improvements or additions to the platform?

**Privacy and Security:** Highlight the platform's approach to user privacy and data security. Are there measures in place to protect user data and ensure a safe environment for all users?

**Impact on Northwest Missouri:** Discuss the platform's impact on the local community in Northwest Missouri. How does Scribble Pad contribute to highlighting local events, cultures, and activities? Are there any initiatives aimed at benefiting the community?

## 8 Conclusion

In conclusion, Scribble Pad emerges as an innovative and inclusive platform that transcends the conventional realms of blogging. With a strong emphasis on empowering writers, fostering community engagement, and serving as an information hub for Northwest Missouri, Scribble Pad embodies a vision of connectivity and enrichment.

The journey embarked upon with Scribble Pad is one rooted in the commitment to providing a space where creativity thrives, diverse voices are celebrated, and meaningful connections are forged. As we move forward, our dedication remains unwavering—to continuously evolve, expand, and enhance the platform's capabilities to better serve our users.

With a foundation built on the principles of user empowerment, community interaction, and comprehensive information dissemination, Scribble Pad is poised to not just be a platform but a catalyst for inspiration, knowledge sharing, and collective growth within Northwest Missouri and beyond.

## 9 Future Scope

Our image upload feature can be upgraded to support the addition of multiple images when posting. Additionally, I propose integrating comments with a more streamlined code structure. To improve the user experience, we should address the notification display issue where the icons are not appearing correctly. Furthermore, enhancing the notification system to inform users about changes made by admins—such as post approvals or rejections—would be beneficial. Admins should also have the capability to remove inappropriate comments directly from posts for better content moderation.

## 10 Github

Click here to visit [github.com](https://github.com).

## References

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<https://www.w3schools.com/>
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