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**BAHRIA UNIVERSITY, (Karachi Campus)**

*Department of Software Engineering*

PROPOSAL

**Course Title:** Software Construction  **Course Code**: SEL-311

**Course Instructor:** Dr. Salahuddin Sheikh **Class**: BSE- (A/B)

**Lab Instructor:** Engr. Hamza  **Name:** Muhammad Shoaib Akhter Qadri

PROJECT TITLE:

**Blogify : A Professional Blogging Application**

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Submission Date**: 29/11/2023**

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# **INTRODUCTION:**

In the digital age, where information exchange is paramount, "Blogify" emerges as a powerful blogging application designed to meet the needs of both content creators and readers. This platform provides a robust environment for users to publish, share, and engage with high-quality articles across diverse categories. With its intricate features and user-friendly interface, Blogify aims to redefine the blogging experience.

# **PROJECT SCOPE:**

1. **User-Friendly Interface:**

Blogify offers an intuitive and aesthetically pleasing interface for a seamless user experience. Users, ranging from Admins to Sub-Admins and general Users, can easily navigate through the application.

1. **Multi-Level User Access:**

The application supports multi-level user access, distinguishing between Admins, Sub-Admins, and regular Users. This hierarchical structure allows for effective content management, ensuring the right individuals have the appropriate permissions.

1. **Article Management:**

Admins and Sub-Admins can publish, edit, and delete articles. The application employs a sophisticated system where Admins can accept or reject Sub-Admins' articles, maintaining quality control over published content.

1. **Social Authentication:**

Blogify integrates social authentication, allowing Sub-Admins to log in with popular platforms like GitHub, Google, and Facebook. This enhances the accessibility and convenience of user authentication.

1. **Dynamic Content Display:**

The homepage features dynamically generated content, showcasing all articles and highlighting popular posts. Categories and tags further organize content, providing users with a personalized and efficient browsing experience.

1. **Admin Panel:**

The Admin Panel serves as the nerve center of the application. Admins can manage categories, tags, articles, Sub-Admins, Users, and comments. Graphical representations offer insights into user engagement and content popularity.

1. **SEO Optimization:**

Articles published on Blogify are optimized for search engines, contributing to Google rankings. This ensures that the platform and its content reach a wider audience.

1. **Security Measures:**

The application prioritizes user security with MERN technology, JWT tokens, bcrypt for password hashing, and OTP generation for email verification. Admins have control over user access, enhancing the overall security architecture.

1. **Contact and About Pages:**

Blogify includes informative pages such as Contact Us, About Us, and Policy. These pages enrich the user experience by providing additional insights into the platform's purpose, policies, and ways to connect.

1. **Real-Time Interaction:**

Users, including Sub-Admins and regular Users, can engage with articles by commenting, liking, disliking, and deleting their comments. Real-time interaction fosters a sense of community within the platform.

# **PROJECT ABSTRACT:**

Blogify is an innovative blogging application that transcends traditional content publishing. It incorporates advanced features, such as multi-level user access, social authentication, SEO optimization, and robust admin controls. The application's architecture ensures security, user engagement, and seamless content management. With its dynamic interface and diverse functionalities, Blogify redefines the blogging landscape, catering to the needs of content creators and readers alike.

# **PROJECT FUNCTIONALITIES:**

Blogify encompasses a wide array of functionalities, including:

* User Authentication and Authorization
* Article Publishing, Editing, and Deletion
* Admin Panel for Comprehensive Content Management
* Social Authentication for Sub-Admins
* Real-Time Interaction with Articles
* SEO Optimization for Google Rankings
* Contact, About, and Policy Pages
* Multi-Level User Access
* Graphical Insights into User Engagement
* Security Measures with JWT Tokens, bcrypt, and OTP Generation

# **PROJECT TECHNOLOGY:**

The application leverages cutting-edge technologies:

* Frontend: React, Redux, Jodit, HTML React Parser
* Backend: Node.js, Express.js, MongoDB
* Authentication: JWT, bcrypt, Otp Generator, Validator
* Additional Libraries: Nodemailer, Formidable, Date-and-Time, HTML-to-Text, JWT-Decode, React-Google-Login

# **MODULE DISTRIBUTION:**

* **Muhammad Shoaib Akhter Qadri:**

He is working on Frontend, backend with database and live server with domain. He is responsible for working on frontend with backend with database (Mongo DB Atlas) and work on different libraries for authentication etc. He is working to run applications on server and get domain also.

* **Muhammad Yahya:**

He is working on Frontend, and he has responsible to make responsive application and create different pages like home, contact, about, policy, admin and sub-admin panel with different functionalities and feature like category, tags, comments, user, sub-admin and article post pages.

# **Conclusion:**

Blogify stands as a testament to the capabilities of modern web technologies. Its feature-rich environment, coupled with a secure and user-friendly design, positions it as a top-tier blogging application. The project successfully integrates multiple technologies to deliver a comprehensive solution for content creators and readers, making it a noteworthy contribution to the realm of online publishing.

**Teacher Signature**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Remarks**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Submission Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_