

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	01 Nov 2023
Team ID	NM2023TMID04500
Project Name	Blogging: Create a Blog using Wordpress

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

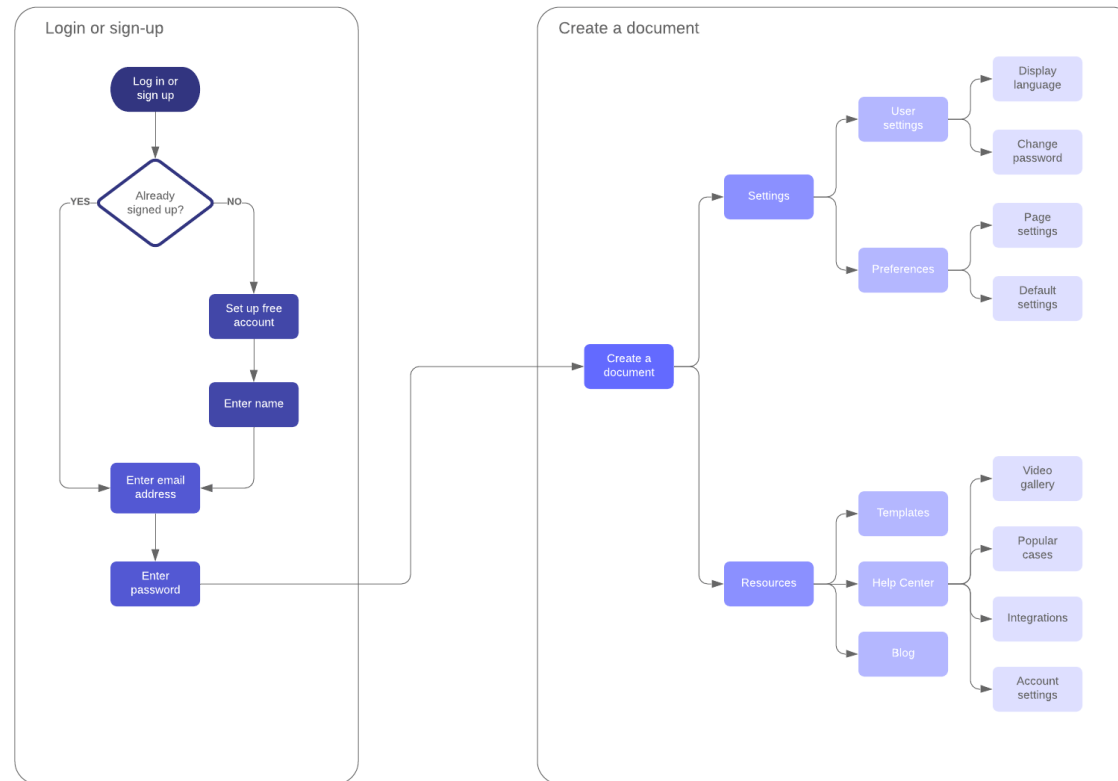


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	Content Management System (CMS)	The CMS is the backbone of the "Mr. Panakkar" website, allowing for the easy creation, management, and publication of educational articles, videos, quizzes, and user-generated content.	WordPress - An industry-standard, open-source CMS known for its flexibility, user-friendliness, and extensive plugin ecosystem.
2.	User profiles	User profiles provide a personalized space for each user, allowing them to showcase their trading experience, interact with the community, and access their personalized content.	Custom-built user profile system integrated with WordPress user management, including profile customization features and badges.
3.	Community Forum	The community forum is the hub for users to engage in trading discussions, ask questions, and share experiences. It's an integral part of building a supportive community.	bbPress - A popular WordPress plugin for creating and managing discussion forums with user-friendly features.
4.	Educational Content	Educational content includes articles, videos, and quizzes designed to educate users about trading concepts and strategies.	WordPress content types and custom fields, integrated with multimedia plugins for video content and quiz creation.
5.	Branding Customization	Branding customization allows users to personalize their user profiles, theme appearance, and branding elements to create a unique experience.	Custom-built user branding customization features integrated with WordPress theme customization.
6.	Data Analytics and Personalization	Data analytics and personalization are crucial for tailoring content recommendations and user experiences based on individual user behavior and engagement history.	Data analytics tools, potentially using Google Analytics or similar, and machine learning algorithms for personalized content recommendations.
7.	Monetization and Advertising	Security measures are essential to protect user data, and compliance ensures adherence to legal and regulatory standards.	SSL encryption, security plugins, regular security patch updates, and privacy policy management for compliance.
8.	Security and Compliance	Security measures are essential to protect user data, and compliance ensures adherence to legal and regulatory standards.	SSL encryption, security plugins, regular security patch updates, and privacy policy management for compliance.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	User-Centric Design	The application is designed with a strong focus on user experience, providing intuitive navigation, clear content structure, and a personalized interface that caters to the needs of novice and prospective traders.	User experience (UX) design principles and responsive web design techniques are applied to create an engaging and user-friendly interface.
2.	Performance Efficiency	The application is optimized for performance, ensuring quick load times and responsiveness, even during high traffic periods..	Performance optimization techniques, such as content caching, content delivery networks (CDNs), and scalable hosting infrastructure, are used to enhance application speed
3.	Data Security	Data security is a top priority, with robust measures in place to protect user data, including personal information, discussions, and trading activity data..	The application utilizes SSL encryption for data transmission, firewall and intrusion detection systems, secure user authentication, and regular security audits
4.	Accessibility and Inclusivity	The application is designed to be accessible to users with disabilities, ensuring compliance with accessibility standards (e.g., WCAG) for inclusive user experiences.	Development practices that adhere to accessibility guidelines, including semantic HTML, alternative text for images, and keyboard navigation, are implemented.
5.	Monetization Strategies	The application supports multiple monetization strategies, including premium content access and advertising sections, to sustain and enhance the project.	Integration of e-commerce plugins, ad management plugins, and affiliate marketing technologies are used to implement and manage these strategies

