**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 03 November 2023 |
| Team ID | NM2023TMID4205 |
| Project Name | Creating Blog using Wordpress Platform |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Bike Customization | * Customization Platform: Provide a user-friendly bike customization platform for customers. * Visual Options: Allow customers to select and visualize various bike frame designs, colors, and materials. |
| FR-2 | Recommendations and Comparisons | * Recommendation Engine: Offer recommendations for compatible components and accessories based on selected frame and style. * Budget Consideration: Ensure recommendations consider the customer's budget and intended use. |
| FR-3 | Sharing Customizations | * Social Media Sharing: Allow customers to share their custom bike configurations on social media platforms. * Unique Links: Generate a unique link for each shared configuration. |
| FR-4 | User Management | * User Account Management: Provide system administrators with the ability to manage user accounts and access privileges. * Deactivation and Deletion: Allow administrators to deactivate or delete user accounts as needed. |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | * Response Time: The bike customization platform must respond to user actions within 2 seconds, ensuring a smooth and responsive user experience. * Accessibility: The platform should adhere to accessibility standards (e.g., WCAG) to make it usable for all customers, including those with disabilities. |
| NFR-2 | **Security** | * Data Encryption: All customer and configuration data must be encrypted both in transit and at rest to protect user privacy and prevent unauthorized access. * Authentication: Implement robust user authentication mechanisms to ensure secure access to user accounts and configurations. |
| NFR-3 | **Reliability** | * Traffic Handling: The platform should be able to handle a minimum of 1,000 concurrent users without performance degradation, and it should be scalable to accommodate additional load. * Component Scalability: The system should support the addition of new bike components and options with ease. |
| NFR-4 | **Performance** | * Load Testing: Perform load testing to ensure the platform's performance under peak usage conditions, with a target of handling 5,000 concurrent users. * Page Load Time: Individual page load times should be under 3 seconds to keep users engaged. |
| NFR-5 | **Availability** | * Availability: Aim for 99.9% platform availability, with planned maintenance communicated to users in advance. * Fault Tolerance: Implement mechanisms to handle system failures gracefully and ensure minimal disruptions to the user experience. |