Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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.

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.

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.