

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

Date	03 NOV 2023
Team ID	NM2023TMID02785
Project Name	Hashtag Generation

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3		
FR-4		

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Hashtag generation enhances social media engagement by simplifying content discovery. Users effortlessly input content, receiving relevant and trending hashtags, fostering discoverability. Customization options cater to diverse tones, while real-time updates on trending hashtags keep content fresh. This usability elevates user reach and impact across social platforms.
NFR-2	Security	Ensure hashtag generation security with robust user authentication, secure communication channels, and encrypted data storage. Implement access controls to prevent unauthorized use, conduct regular security audits, and address vulnerabilities promptly. Prioritize user privacy and employ best practices to protect sensitive information, fostering a trustworthy user experience.

NFR-3	<b>Reliability</b>	<p>Reliability in hashtag generation ensures consistent and accurate results, reflecting user intent. The system must promptly generate relevant hashtags, adapt to varying inputs, and incorporate user feedback for continuous improvement. A reliable solution fosters user trust and satisfaction, crucial for effective content categorization and social media engagement.</p>
NFR-4	<b>Performance</b>	<p>Performance is a critical aspect of a smart billing system for water suppliers, as it directly impacts the system's responsiveness, efficiency, and scalability.</p>

NFR-5	<b>Availability</b>	<p>Our hashtag generation service is available 24/7, ensuring you can effortlessly create engaging and relevant hashtags whenever you need them. Enjoy real-time trending suggestions, customization options, and seamless integration with social media. Elevate your content strategy with our user-friendly and always accessible hashtag generation platform.</p>
NFR-6	<b>Scalability</b>	<p>To ensure scalability in hashtag generation, employ cloud services for flexible resource allocation, implement database sharding for efficient data storage, and utilize load balancing to distribute incoming requests. Containerization and horizontal scaling further enhance performance, enabling the system to handle increased demand seamlessly and cost-effectively.</p>

