

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

Date	25 Oct 2023
Team ID	NM2023TMID09233
Project Name	Creating an Sponsored Post for Instagram

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration and Authentication:	<ul style="list-style-type: none">• User account creation with a unique username.• Secure authentication methods, such as email, phone number, or third-party social media account login.
FR-2	Profile Management:	<ul style="list-style-type: none">• User profile customization (profile picture, bio, website link).• Ability to edit and update profile information.
FR-3	Posting and Sharing:	<ul style="list-style-type: none">• Ability to upload and share photos and videos.• Captions and hashtags for posts.• Filters and editing tools for enhancing images.
FR-4	Feed and Timeline:	<ul style="list-style-type: none">• A feed displaying posts from followed users.• Algorithmic content sorting based on user preferences.• Ability to like, comment, and share posts.

FR-5	Stories:	<ul style="list-style-type: none"> • Ability to create and view ephemeral stories. • Features like stickers, polls, and interactive elements in stories.
FR-6	Analytics:	Insights for business accounts, showing engagement metrics and audience demographics.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Performance:	<p>Response Time: The system should respond to user interactions, such as uploading photos, liking, or commenting, within a certain acceptable time frame (e.g., less than 1 second).</p> <p>Throughput: The platform should be able to handle a certain number of concurrent users and interactions per second.</p> <p>Scalability: The platform should be able to scale horizontally to accommodate a growing user base and increased activity.</p>
NFR-2	Reliability:	<p>Availability: Instagram should be available 24/7 with a minimal amount of downtime.</p> <p>Fault Tolerance: The system should continue to function properly in the event of hardware or software failures.</p> <p>Data Integrity: User data should be stored securely and protected from corruption or loss.</p>
NFR-3	Security:	Data Protection: Ensure user data privacy and protection, with features like end-to-end encryption for direct messaging and secure user authentication.

		<p>Authorization and Authentication: Properly authenticate and authorize users, preventing unauthorized access to accounts and data.</p> <p>Content Moderation: Implement mechanisms to prevent the sharing of harmful or inappropriate content.</p>
NFR-4	Usability and User Experience:	<p>Accessibility: Ensure the platform is accessible to users with disabilities, complying with relevant standards and guidelines.</p> <p>User Interface Responsiveness: The user interface should be responsive and optimized for various devices and screen sizes.</p>
NFR-5	Compliance:	<p>Legal Compliance: Ensure compliance with relevant data protection and privacy laws (e.g., GDPR, CCPA).</p> <p>Content Moderation Compliance: Adhere to legal requirements for content moderation, such as handling copyright violations and illegal content.</p>
NFR-6	Geographic and Cultural Considerations:	<p>Global Availability: Ensure the platform is accessible and performs well in different regions and languages.</p> <p>Cultural Sensitivity: Consider cultural norms and sensitivities when implementing content moderation.</p>