

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

Date	16-OCTOBER- 2023
Team ID	NM2023TMID07649
Project Name	SUBSCRIBERS GALORE:EXPLORING THE WORLD’S TOP YOUTUBE CHANNELS.

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	Users can create an account with a unique username and password.
FR-2	User Profile	Users can customize their profiles, add avatars, and provide personal information.
FR-3	Channel Subscriptions	Users can subscribe to their favorite YouTube channels and receive updates.
FR-4	Viewing History	The platform records users' viewing history for personalized recommendations.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Begin by understanding your users, their needs, and their behaviors when exploring YouTube channels.
NFR-2	Security	Implement robust user authentication mechanisms, including multi-factor authentication (MFA) options.
NFR-3	Reliability	Ensure that the platform is available and accessible to users 24/7 with minimal downtime.
NFR-4	Performance	Host your platform on high-speed servers with ample resources to handle concurrent user requests and video streaming.
NFR-5	Availability	Implement redundancy at multiple levels, including servers, databases, and network connections, to ensure that if one component fails, another takes over.
NFR-6	Scalability	Implement load balancers to distribute incoming traffic evenly across multiple servers or server instances. This prevents overloading of any single server.