

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date: April 14, 2025

Team ID: SWTID1742745633

Project Name: ViewVoyage

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	User Management	<ul style="list-style-type: none">- Registration through Form- Login via Form
FR-2	Video Management	<ul style="list-style-type: none">- Browse Video Catalog- View Video Details- Upload Videos
FR-3	User Interaction	<ul style="list-style-type: none">- Like Videos- Add to "Your List"- Comment on Videos- Download Videos
FR-4	Search Functionality	<ul style="list-style-type: none">- Search Videos by Title
FR-5	Admin Management	<ul style="list-style-type: none">- View User List- Delete Users- Manage Reports

Non-functional Requirements

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Interface should be simple, responsive, and easy to navigate across devices using React and Bootstrap.
NFR-2	Security	JWT-based authentication, bcrypt password hashing, and HTTPS encryption should be enforced.
NFR-3	Reliability	MongoDB must be backed up and replicated to prevent data loss and ensure data integrity.
NFR-4	Performance	The app should handle up to 1000 concurrent requests with loading times under 2 seconds.
NFR-5	Availability	Maintain 99.9% uptime using load balancers and basic failover strategies.
NFR-6	Scalability	Use a scalable 3-tier architecture with the ability to horizontally scale using MongoDB sharding.