### **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.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| **FR-1** | User Management | - Registration through Form  - Login via Form |
| **FR-2** | Video Management | - Browse Video Catalog  - View Video Details  - Upload Videos |
| **FR-3** | User Interaction | - Like Videos  - Add to “Your List”  - Comment on Videos  - Download Videos |
| **FR-4** | Search Functionality | - Search Videos by Title |
| **FR-5** | Admin Management | - View User List  - Delete Users  - Manage Reports |

### **Non-functional Requirements**

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

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| **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. |