**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| --- | --- |
| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID49340 |
| Project Name | Cosmetic insights |
| 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 | Data Upload & Preprocessing | Upload cosmetic video data (CSV/JSON) |
|  |  | Clean and standardize data (views, likes, tags) |
| FR-2 | Sentiment Analysis | Perform sentiment analysis on video titles and tags |
|  |  | Classify sentiments (Positive, Negative, Neutral) |
| FR-3 | Category & Region Insights | Rank categories based on average views and sentiment |
|  |  | Compare data across countries/regions |
| FR-4 | Trend & Duration Visualization | Visualize trending duration over time using timelines |
|  |  | Provide interactive charts for user filtering and selection |
| FR-5 | Dashboard & Interactivity | Provide an interactive Tableau dashboard |
|  |  | Enable filters (region, category, sentiment) |
|  |  | Show KPI cards (most liked, longest trending, most positive videos) |
| FR-6 | Admin Monitoring | Monitor data refresh and dashboard loading |
|  |  | Log import status and data pipeline errors |

**Non-functional Requirements:**

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

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Usability | Easy-to-navigate dashboard and user-friendly filter controls |
| NFR-2 | Security | Secure data handling; admin-only access to data pipeline and logs |
| NFR-3 | Reliability | Dashboards must consistently show correct data without breakdowns |
| NFR-4 | Performance | Dashboards and visualizations should load within 3 seconds under normal load |
| NFR-5 | Availability | Dashboard accessible 99% of the time without major outages |
| NFR-6 | Scalability | System can accommodate increased data from new countries and video categories |