**Project Design Phase-II**

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

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| Date | 31 January 2025 |
| Team ID | LTVIP2025TMID47516 |
| Project Name |  |
| 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 | Data Collection | Upload CSV data into DB2 API integration (optional) |
| FR-2 | Data Preparation | SQL Data Cleaning Sentiment Analysis using Python |
| FR-3 | Data Visualization (Tableau) | Sales Trends Dashboard Demographics Report Sentiment Analysis |
| FR-4 | Web Integration (Flask) | Embed Tableau Dashboards Build UI Navigation in Flask |
| FR-5 | Reporting & Documentation | Generate Word/PDF report Create a demo video walkthrough |

**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 | The dashboard should be easy to navigate, visually clean, and responsive. |
| NFR-2 | Security | Only verified data sources will be used; Flask routes protected. |
| NFR-3 | Reliability | Data must load consistently from DB2 without break or error. |
| NFR-4 | Performance | Visualizations and filters must render quickly without lag. |
| NFR-5 | Availability | The Flask app and Tableau visualizations should be accessible 24/7. |
| NFR-6 | Scalability | The system can be expanded to include more products or regions later. |