

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

Date	06 February 2026
Team ID	LTVIP2026TMIDS49558
Project Name	Strategic Product Placement Analysis: Unveiling Sales Impact with Tableau Visualization
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 & Integration	Upload product dataset (CSV/Excel) Connect dataset to Tableau Refresh data when updated
FR-2	Data Visualization	Generate price vs rating analysis dashboard Identify premium vs budget product segments Visualize sales trends and customer satisfaction Interactive filters for category, price range, rating
FR-3	Dashboard Embedding in Web Application	Embed Tableau Dashboard-1 into Flask web app Embed Tableau Dashboard-2 into Flask web app Embed Story visualization Navigation between Home, About, Dashboard, Story pages
FR-4	Insights & Reporting	Detect market gaps Identify underperforming products Support data-driven pricing decisions Generate visual insights for business users

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should provide a simple, user-friendly interface with easy navigation between dashboards and story pages. Visualizations must be clear and understandable.
NFR-2	Security	The system should ensure secure hosting of dashboards and prevent unauthorized modification of data.
NFR-3	Reliability	The system should consistently display dashboards without errors and provide accurate visualization of uploaded datasets.
NFR-4	Performance	Dashboards should load within 3–5 seconds and handle moderate-sized datasets efficiently.
NFR-5	Availability	The web application should be accessible anytime through a browser with stable internet connection.

NFR-6	Scalability	The system should support additional datasets, dashboards, and future feature enhancements without major redesign.
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