

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

Date	31 January 2025
Team ID	LTVIP2025TMID49338
Project Name	iRevolution:A Data-driven Exploration of Apple's iPhone Impact in India using Tableau.
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	Define Objective	Set the goal to explore how Apple's iPhone has influenced the Indian market. Focus on trends, user adoption, and regional insights using data.
FR-2	Data Collection	Gather relevant data from sources like TRAI, Statista, and e-commerce platforms. Collect information on sales, pricing, user demographics, and brand share.
FR-3	Data cleaning	Remove duplicates, fix missing values, and correct inconsistencies. Ensure the dataset is accurate and ready for analysis.
FR-4	Data transformation	Convert raw data into structured formats suitable for Tableau. Create new calculated fields, group data, and format columns.
FR-5	Data visualization and pattern understanding	Use Tableau to build interactive dashboards and charts. Identify patterns in sales, usage, growth areas, and user segments.
FR-6	Analysis and Interpretation	Draw meaningful insights from visual trends and comparisons. Understand key factors driving iPhone adoption in different regions.
FR-7	Dashboard Sharing / Reporting	Publish the final dashboard for stakeholders or on Tableau Public. Create a summary report highlighting insights and recommendations.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The Tableau dashboards should be intuitive, user-friendly, and easy to navigate for both technical and non-technical users.
NFR-2	Security	Data access should be secure, with user-level permissions to protect sensitive datasets and visualizations.
NFR-3	Reliability	The system should ensure consistent availability and accurate data loading every time the dashboard is accessed.
NFR-4	Performance	Dashboards must load quickly (under 3 seconds) and run smoothly even with large datasets.
NFR-5	Availability	The dashboards and reports should be accessible 24/7 with minimal downtime or disruptions.
NFR-6	Scalability	The system should support growing data volumes and allow for adding new data sources or filters in the future.