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

Date	31 January 2025
Team ID	LTVIP2026TMIDS90481
Project Name	IRevolution: A Data-Driven Exploration of Apple's iPhone Impact in India
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	User Registration	Registration through Form (Name, Email, Password) Registration through Google account Registration through Apple ID
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login & Authentication	Login using registered email & password Forget Password and reset via email Secure session management(logout option)
FR-4	Dashboard & Visualization	Dashboard & Visualization View adoption rate by year and region View price-segment analysis of iPhone models
FR-5	Data Filtering & Exploration	Filter data by year Filter by city/region/state Filter by income group or price range
FR-6	Market Comparison	Compare iPhone vs Android market share Compare models based on price and popularity

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Interface should be simple and easy to navigate for students and researchers. Dashboards must have clear charts and tooltips.
NFR-2	Security	User passwords must be encrypted, authentication required for login, and role-based access control for admin features.
NFR-3	Reliability	System should provide accurate analytical results and handle dataset uploads without failure.
NFR-4	Performance	Dashboards and charts should load within 3–5 seconds even with large datasets.
NFR-5	Availability	Application should be accessible 24/7 with minimal downtime.
NFR-6	Scalability	System should support increasing data volume and multiple concurrent users without performance degradation.