

## Project Design Phase-II

### I-Revolution: A Data-Driven Exploration of Apple's iPhone Impact in India

#### Solution Requirements (Functional & Non-Functional)

Date: 31 January 2025

Team ID: **LTVIP2026TMIDS47508**

Maximum Marks: 4 Marks

#### 1. Functional Requirements

The following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirements (Stories / Sub-Tasks)
FR-1	User Registration	<ul style="list-style-type: none"><li>• Registration through Form (Name, Email, Password)</li><li>• Registration through Gmail</li><li>• Registration through LinkedIn</li></ul>
FR-2	User Confirmation	<ul style="list-style-type: none"><li>• Confirmation via Email</li><li>• Confirmation via OTP</li><li>• Account activation after verification</li></ul>
FR-3	Data Collection & Management	<ul style="list-style-type: none"><li>• Upload iPhone sales datasets</li><li>• Import market research data</li><li>• Update and delete datasets</li><li>• Store raw and cleaned data in database</li></ul>
FR-4	Data Cleaning & Processing	<ul style="list-style-type: none"><li>• Remove duplicate records</li><li>• Handle missing values</li><li>• Standardize formats</li><li>• Prepare datasets for analysis</li></ul>
FR-5	Data Analysis	<ul style="list-style-type: none"><li>• Analyze sales trends across years</li><li>• Compare iPhone market share with competitors</li><li>• Analyze pricing trends in</li></ul>

		India <ul style="list-style-type: none"> <li>• Study urban vs rural adoption</li> </ul>
FR-6	Dashboard & Visualization	<ul style="list-style-type: none"> <li>• Interactive Tableau dashboards</li> <li>• Filters by year, region, price range</li> <li>• Graphs showing revenue growth</li> <li>• Download reports in PDF format</li> </ul>
FR-7	User Login & Access Control	<ul style="list-style-type: none"> <li>• Secure login with email &amp; password</li> <li>• Role-based access (User, Analyst, Admin)</li> <li>• Password reset option</li> </ul>
FR-8	Report Generation	<ul style="list-style-type: none"> <li>• Generate summary reports</li> <li>• Export reports in PDF/Excel</li> <li>• View historical analysis reports</li> </ul>

## 2. Non-Functional Requirements

The following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should have a simple, user-friendly interface with easy navigation and clear dashboards.
NFR-2	Security	The system must use secure authentication, encrypted passwords, and protected data storage.
NFR-3	Reliability	The system should provide accurate analysis results with minimal downtime.
NFR-4	Performance	Dashboards and reports should load within 3–5 seconds under normal usage

		conditions.
NFR-5	Availability	The system should be available 24/7 with regular backups and minimal maintenance interruptions.
NFR-6	Scalability	The system should support increasing datasets and growing user base without performance degradation.
NFR-7	Maintainability	The system should allow easy updates, bug fixes, and dataset modifications.
NFR-8	Compatibility	The system should be accessible via web browsers and mobile devices.