Project Design Phase-II
Data Flow Diagram & User Stories

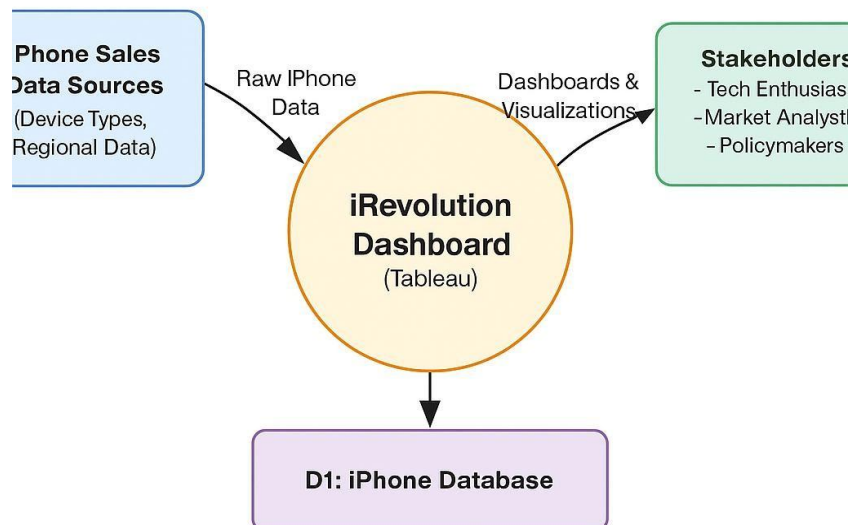| Date	24th June 2025
Team ID	PNT2025TMID08078
Project Name	A Data-driven Exploration of Apple's iPhone Impact in India
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.
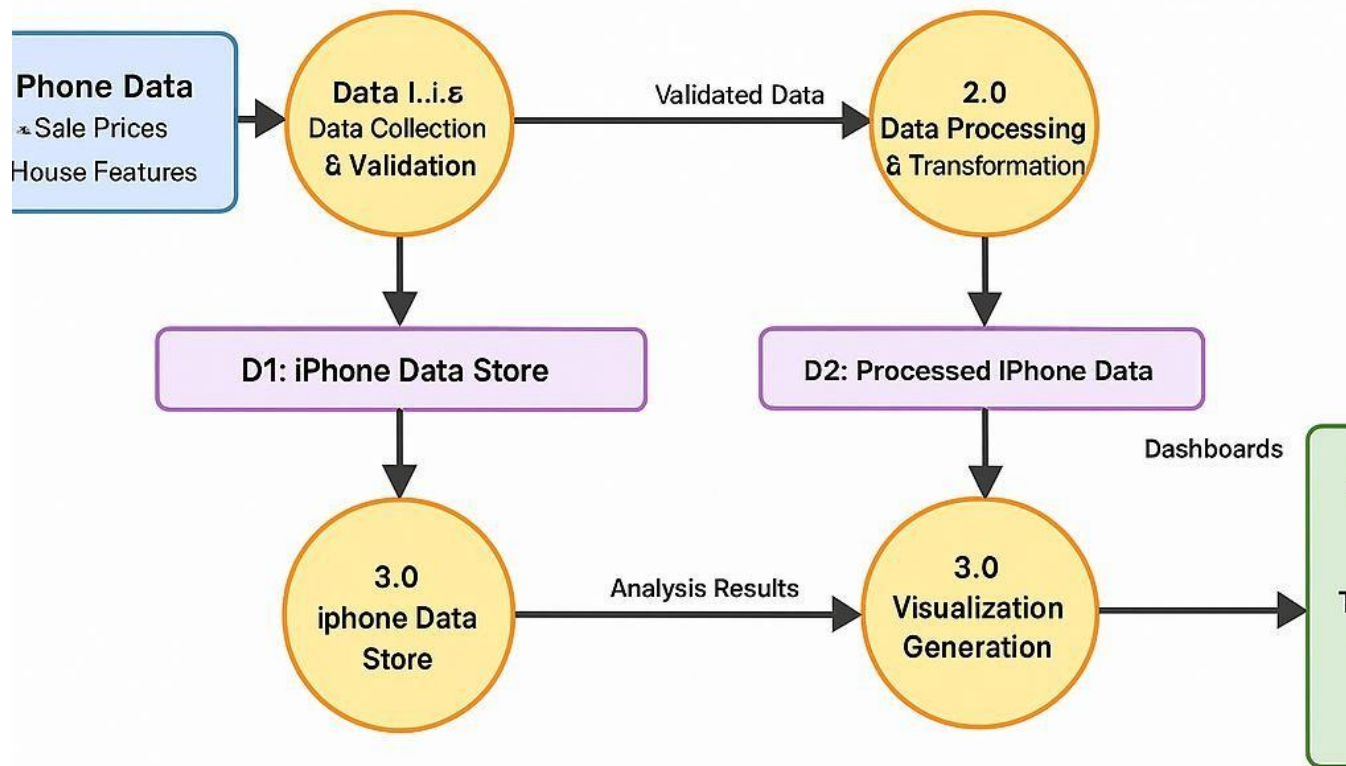
Example: (Simplified)

Level 0: Context Diagram- iRevolution Dashboard
A Data-Driven Exploration of Apple's iPhone Impact in India in India

Level 1: Detailed Data Flow Diagram for iRevolution Dashboard

Address IPnone Impact of Apple's Impàc India

iPhone Data
- Sale Prices
- House Features

→ **Data I..i.ε** Data Collection & Validation

— Validated Data → **2.0** Data Processing & Transformation

D1: iPhone Data Store

D2: Processed IPhone Data

3.0 iphone Data Store

— Analysis Results → **3.0** Visualization Generation

Dashboards →

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upported:

ırıa-view Flɛmary statistics and Key metrics

ɔtion Rates by Region — Comparative histogramanalysis

el Popularity by Time Period — Grouped trends — Analysis — Stakeholders

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Tech Analyst	Data Overview	USN-1	As a tech analyst, I want to view an overall iPhone sales data summary to understand market scale and key metrics	I can view dataset summary with count, average price, and total area	High	Sprint-1
Tech Analyst	Sales Analysis	USN-2	As a tech analyst, I want to analyze sales trends by region and year to assess market penetration	I can analyze correlation between time, region, and sales trends	High	Sprint-1
Tech Analyst	Age Distribution	USN-3	As a tech analyst, I want to view iPhone model distribution to assess device popularity	I can view pie chart showing model-wise distribution	Medium	Sprint-1
Marketing Team	Feature Analysis	USN-4	As a market researcher, I want to analyze iPhone features by popularity and region	I can analyze feature vs user pattern using grouped bar charts	Medium	Sprint-2
Marketing Team	Market Trends	USN-5	As a marketer, I want to access iPhone market trend visualizations to inform campaign strategies	I can access visualizations showing market trends and growth	High	Sprint-1
Marketing Team	Competitive Analysis	USN-6	As a marketer, I want to understand buyer preferences for iPhone models	I can view comparative analysis of premium vs budget models	Medium	Sprint-2
Company Executive	Executive Dashboard	USN-7	As an executive, I want to access a dashboard with key market insights and KPIs to guide strategic decisions	I can access executive dashboard with key insights and KPIs	High	Sprint-1
Data Administrator	System Maintenance	USN-9	As a data admin, I want to monitor iPhone data processing and visualization performance	I can monitor system performance and data integrity	Low	Sprint-2