

Project Design Phase-II
Data Flow Diagram & User Stories

Date	1 June 2025
Team ID	LTVIP2025TMID48098
Project Name	Cosmestic Insights: Navigating Cosmetics Trends and Consumer Insights with Tablaue
Maximum Marks	4 Marks

Data Flow Diagram (Description for DFD Image)

Level-1 DFD Description

1. The **User** inputs data requests or interacts with the Tableau dashboard.
2. **APIs (Instagram, Reddit, e-commerce)** send raw trend data to the system.
3. The **Data Collection Module** stores this data temporarily in a processing buffer.
4. The **Data Processing & Cleaning Unit** filters, parses, and processes the raw data.
5. The cleaned data is stored in the **Cloud Database (AWS RDS / Firebase)**.
6. The **Analysis Engine** performs sentiment analysis and trend mining.
7. The insights are sent to the **Tableau Dashboard** for visualization.
8. The **User** views filtered trends and exports reports if needed.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web user)	Registration	USN-1	As a user, I can register for the platform by entering my email, password, and confirming password.	I can access my dashboard after registering.	High	Sprint-1
Customer (Web user)	Confirmation	USN-2	As a user, I will receive a confirmation email once I have registered on the platform.	I receive a confirmation mail and activate my account.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web user)	Login	USN-3	As a user, I can log into the dashboard using my registered email and password.	I can successfully log in and view my dashboard.	High	Sprint-1
Customer (Web user)	Data Interaction	USN-4	As a user, I can view trending cosmetic insights via a Tableau dashboard.	I can visualize trends clearly in charts or graphs.	High	Sprint-2
Customer (Web user)	Filters	USN-5	As a user, I can apply filters based on region, platform, and product category in the dashboard.	Filtered results are displayed instantly on dashboard.	Medium	Sprint-2
Customer (Web user)	Export Reports	USN-6	As a user, I can export the dashboard insights as a PDF or Excel file.	I get downloadable/exportable reports from the UI.	Medium	Sprint-3
Admin	Data Monitoring	USN-7	As an admin, I can monitor API usage, data quality, and system logs.	Admin panel displays logs, API hits, and alerts.	High	Sprint-3
Customer Care Exec	Dashboard Support	USN-8	As a support agent, I can access user data and help resolve dashboard access issues.	Agent can search user and reset access if needed.	Medium	Sprint-4