Project Design Phase-II
Data Flow Diagram & User Stories

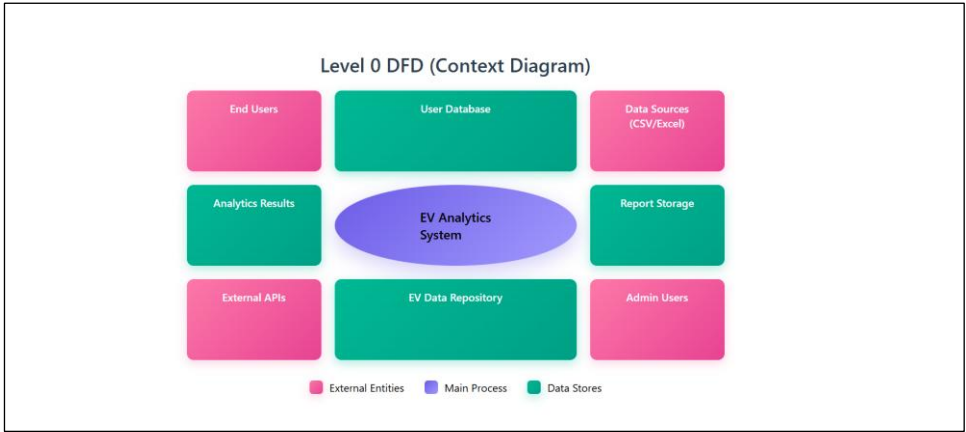| Date	26 June 2025
Team ID	LTVIP2025TMID50379
Project Name	Visualization tool for electric vehicle charge and range analysis
Maximum Marks	4 Marks

Data Flow Diagrams:
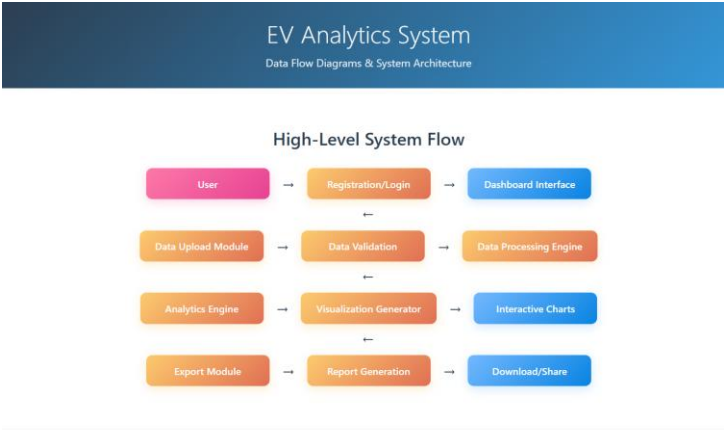
Example: DFD Level 0 (Industry Standard)

Example: (Simplified)

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Data Analyst	Registration	USN-1	As a data analyst, I can register for the EV analytics platform by entering my email, password, and confirming my password.	I can access my personalized dashboard after successful registration	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm link to activate account	High	Sprint-1
		USN-3	As a user, I can register for the application through Gmail OAuth	I can register & access the dashboard with Google Login	medium	Sprint-1
		USN-4	As a user, I can register through LinkedIn for professional networking	Quick registration for industry professionals	Low	Sprint-2
Data Analyst	Data Upload	USN-5	As an analyst, I can upload multiple EV datasets (CSV/Excel) simultaneously	System validates and processes all uploaded files successfully	High	Sprint-1
		USN-6	As an analyst, I can view data validation results and error reports	Clear feedback on data quality and formatting issues	High	Sprint-1
Research Scientist	Analytics	USN-7	As a researcher, I can perform range vs efficiency analysis across different EV models	Interactive scatter plots and correlation insights are generated	High	Sprint-1
		USN-8	As a researcher, I can compare India vs Global EV market trends	Separate filtering and comparative visualization options available	High	Sprint-1
Business User	Visualization	USN-9	As a business user, I can create custom dashboards with drag-and-drop widgets	Personalized dashboard saves and loads correctly	Medium	Sprint-2
		USN-10	As a user, I can export visualizations as PDF/PNG reports	High-quality export functionality with customizable layouts	Medium	Sprint-2
Policy Maker	Geographic Analysis	USN-11	As a policy maker, I can analyze state-wise charging infrastructure distribution	Interactive maps and charts showing regional infrastructure gaps	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	System Management	USN-12	As an admin, I can monitor system performance and user activity	Real-time dashboard showing system metrics and user analytics	Low	Sprint-3