

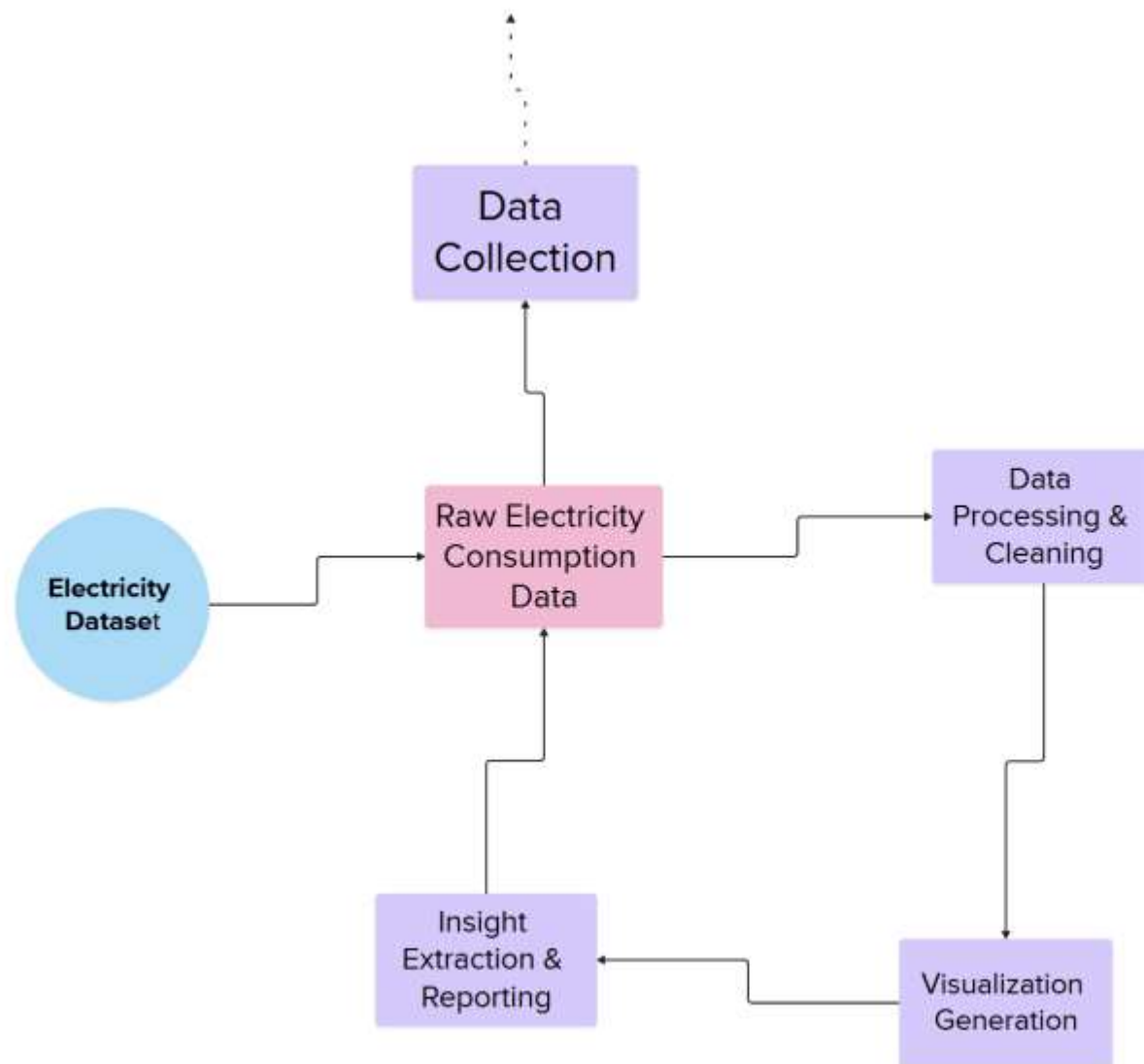
Project Design Phase-II
Data Flow Diagram & User Stories

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|---------------|--|
| Date | 09 February 2026 |
| Team ID | LTVIP2026TMIDS80901 |
| Project Name | Plugging in to the future : An exploration of electricity consumption patterns |
| 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: Electricity Consumption Analysis – DFD



User Stories

Use the below template to list all the user stories for the product.

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|----------------------|-------------------------------|-------------------|--|---|----------|----------|
| Energy Analyst | Load Dataset | USN-1 | As an analyst, I want to load the electricity dataset so that I can prepare it for visualization. | Dataset is successfully imported into Tableau | High | Sprint-1 |
| Electricity Consumer | View Time-Based Trends | USN-2 | As a user, I want to view monthly electricity consumption trends so that I can understand usage patterns. | Line chart displays month-wise consumption | High | Sprint-1 |
| Electricity Consumer | Identify Peak Usage | USN-3 | As a user, I want to identify peak electricity usage periods so that I can reduce high consumption. | Dashboard highlights peak periods | High | Sprint-1 |
| Electricity Consumer | Category Comparison | USN-4 | As a user, I want to compare electricity usage across categories so that I can identify high-consuming segments. | Bar chart shows category-wise comparison | Medium | Sprint-1 |
| Electricity Consumer | Apply Filters | USN-5 | As a user, I want to filter electricity data by time or category so that I can analyze specific patterns. | Filters dynamically update dashboard | High | Sprint-2 |
| Electricity Consumer | Interactive Dashboard | USN-6 | As a user, I want an interactive dashboard so that I can explore electricity consumption easily. | Dashboard responds without errors | High | Sprint-2 |
| Energy Analyst | Visual Optimization | USN-7 | As an analyst, I want well-formatted visualizations so that insights are clearly communicated. | Charts are properly labeled and readable | Medium | Sprint-2 |
| Electricity consumer | Story Creation | USN-8 | As a user, I want the analysis presented in a story format so that insights are logically structured. | Tableau story view created | Medium | Sprint-2 |