Project Design Phase-II
Data Flow Diagram & User Stories

Date	31 January 2025
Team ID	PNT2025TMID02554
Project Name	Global Malnutrition Trends: A Power BI Analysis (1983-2019)
Maximum Marks	4 Marks

Data Flow Diagrams:

To create a Data Flow Diagram (DFD) for your project on Global Malnutrition Trends Analysis (1983-2019) in Power BI, we need to define how data flows through your system.

Example: ☐ Data Sources (Entities):

WHO/UNICEF, Government Portals, and NGOs provide raw data.

☐ **Data Storage & Processing:**

- **Raw data is stored, cleaned, and preprocessed.**

☐ **Data Analysis:**

- **Processed data undergoes statistical analysis to find trends.**
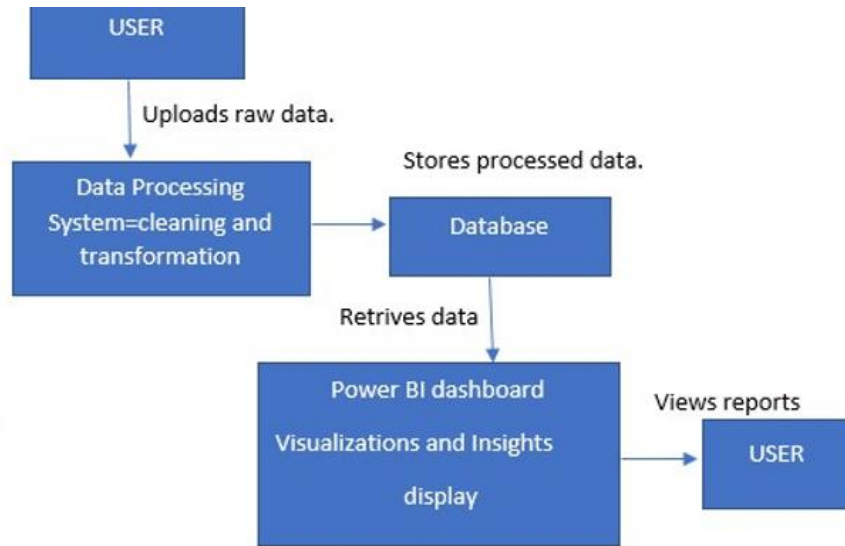
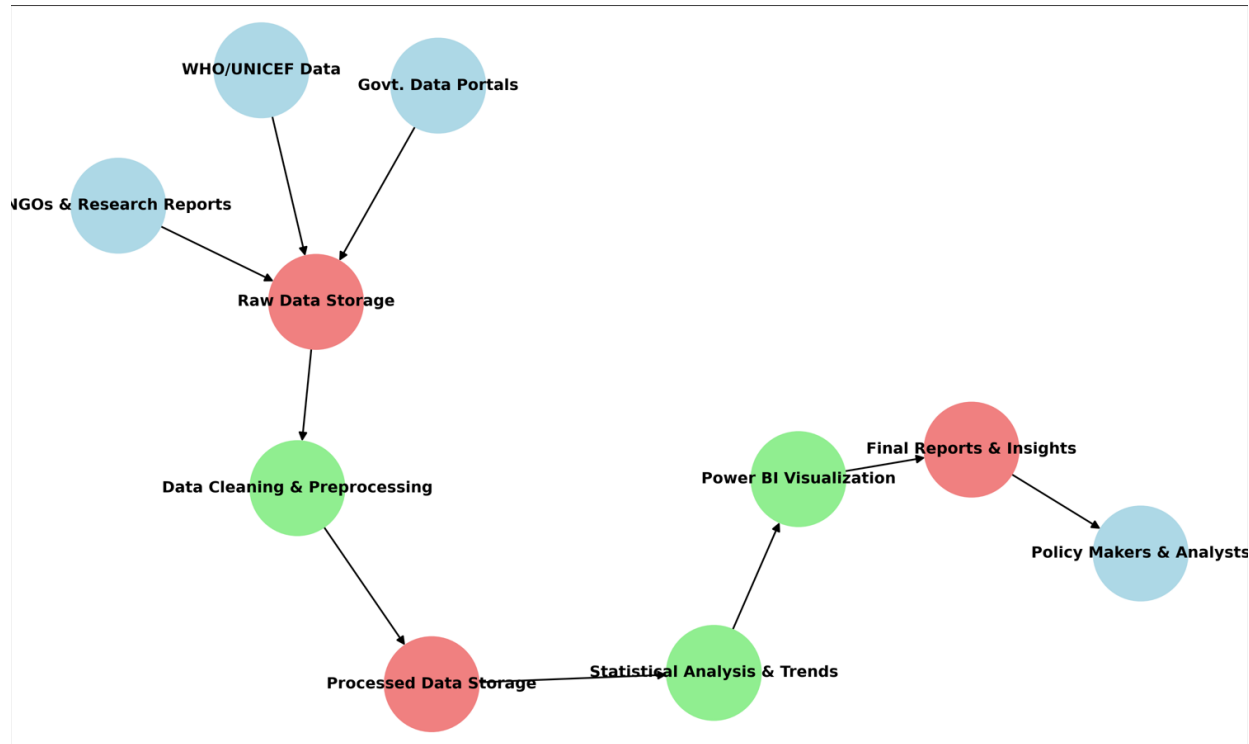☐ **Visualization & Reporting:**

- **Power BI is used to generate insights.**

☐ **Final Reports & Decision Making:**

- **Reports are generated for policymakers & analysts.**

Example: DFD Level 0 (Industry Standard)

```
         USER

           │
           │  Uploads raw data.
           ▼
                              Stores processed data.
  ┌──────────────────┐
  │ Data Processing  │         ┌──────────────┐
  │ System=cleaning  │────────▶│   Database   │
  │ and              │         │              │
  │ transformation   │         └──────────────┘
  └──────────────────┘                │
                                       │  Retrives data
                                       ▼
  ┌──────────────────────┐
  │ Power BI dashboard   │      Views reports
  │                      │    ┌──────────────┐
  │Visualizations and    │───▶│    USER      │
  │Insights              │    │              │
  │ display              │    └──────────────┘
  └──────────────────────┘
```

USER

Uploads raw data.

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Data Processing System=cleaning and transformation

Database

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Power BI dashboard

Visualizations and Insights

display

Views reports

USER

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
Data Analyst	Data Collection	USN-1	As a data analyst, I can collect and load malnutrition datasets (1983-2019).	Data is successfully stored in the database.	High	Sprint-1
Data Analyst	Data Cleaning	USN-2	As a data analyst, I can clean and pre-process the dataset.	Data has no missing or inconsistent values.	High	Sprint-1
BI Developer	Data Transformation	USN-3	As a BI developer, I can normalize and merge datasets for analysis.	Data is formatted correctly for visualization.	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
BI Developer	Visualization	USN-4	As a BI developer, I can create Power BI dashboards to show malnutrition trends.	Dashboard displays accurate trend analysis.	High	Sprint-3
Researcher	Insights & Reporting	USN-5	As a researcher, I can analyse malnutrition trends by region.	Report includes correlations and key findings.	Medium	Sprint-4
End User	Report Access	USN-6	As an end user, I can access the final reports on malnutrition trends.	Users can download reports in PDF format.	High	Sprint-4