Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	10 March 2025
Team ID	PNT2025TMID06655
Project Name	Global Malnutrition Trends :A Power BI Analysis(1983-2019)
Maximum Marks	4 Marks
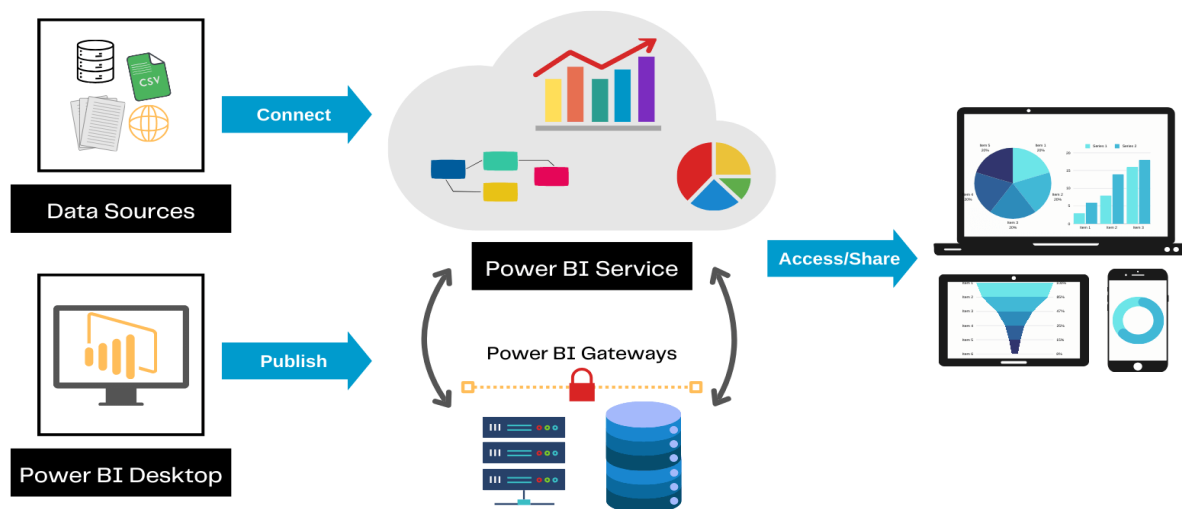
Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table -1: Components & Technologies:

S.No	Component	Description	Technology
1.	Data Collection	Collecting malnutrition data from UNICEF/WHO World Bank	Power BI, Excel

2.	Data Loading	Importing Malnutrition Dataset	Power BI
3.	Data Cleaning	Cleaning Malnutrition rates and country classification	Power BI
4.	Data Visualization	Malnutrition trends (stunning, wasting, weight, overweight)	Power BI
5.	Scenario 1	Count of U5(Under-5)population	Power BI Visualization(KPI Card)
6.	Scenario 2	Sum of survey(total sample size)	Power BI Visualization(KPI Card)
7.	Scenario 3	Sum of underweight cases	Power BI Visualization(Card)
8.	Scenario 4	Stunting by Income classification(LDC, LIFD, LLDC,SIDC)	Power BI Visualization(Line and Stacked Column Chart)
9.	Scenario 5	Overweight cases by country	Power BI Visualization(Area Chart)
10.	Scenario 6	Overweight & underweight by income classification	Power BI Visualization(Ribbon Chart)
11.	Scenario 7	Sum of Income classification	Power BI Visualization(Gauge Chart)
12.	Report Creation	Malnutrition trends reports for insight	Power BI
13.	Data Export	Exporting processed data for further use	Power BI, Excel

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Scalability	Handle large datasets from 1983-2019	Power Bi, Excel
2.	Interactivity	Filters for Income levels, country classification	Power BI(DAX, Power Query)
3.	Performance	Optimized for multi-year malnutrition trends	Power BI(DAX)