

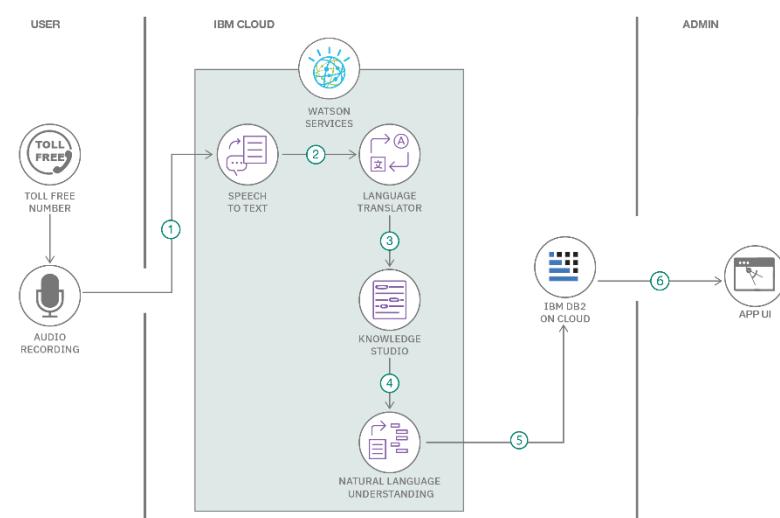
Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	15 February 2026
Team ID	LTVIP2026TMIDS74725
Project Name	Heart Disease Analysis
Maximum Marks	4 Marks

Technical Architecture:

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



Guidelines:

Include all the processes (As an application logic / Technology Block)
 Provide infrastructural demarcation (Local / Cloud)
 Indicate external interfaces (third party API's etc.)

Indicate Data Storage components / services
 Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology / Tool
1	User Interface	View dashboards and interact with health data	Tableau Desktop / Tableau Public
2	Application Logic-1	Data preprocessing and transformation	Tableau Prep / Python (Pandas – optional)
3	Application Logic-2	Calculated fields and filters	Tableau Calculated Fields
4	Application Logic-3	Visualization rendering	Tableau Visualization Engine
5	Database	Storage of heart disease dataset	Flat File (.CSV)
6	Cloud Database (Optional)	Cloud hosting for dashboards	Tableau Cloud / Google Sheets
7	File Storage	Source dataset storage	Local File System / Google Drive
8	External API-1	Not used	N/A
9	External API-2	Not used	N/A
10	Machine Learning Model	Not used in current scope	N/A

11	Infrastructure	Dashboard development & publishing	Local System (Windows/MacOS)
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Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology / Tool
1	Open-Source Frameworks	Tableau Public and open datasets used	Tableau Public
2	Security Implementations	Controlled access to dashboards	Tableau Sharing Controls
3	Scalable Architecture	Supports future datasets and dashboards	3-Tier Architecture
4	Availability	Dashboards accessible online	Tableau Public
5	Performance	Optimized extracts and filters	Tableau Extract Engine

