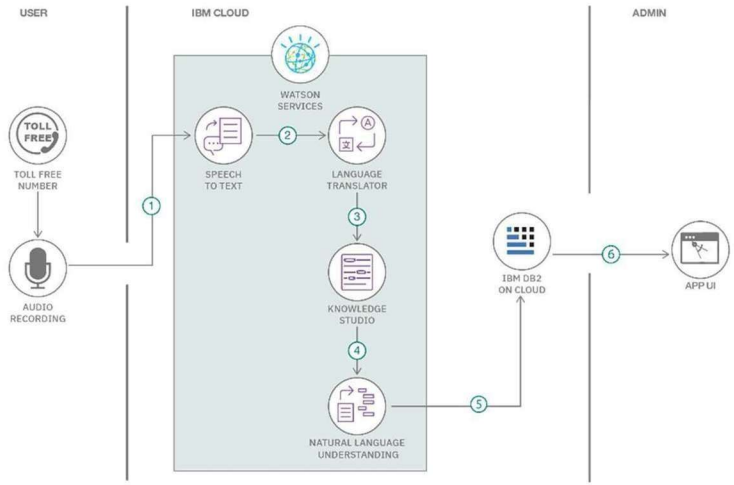
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	31 January 2026
Team ID	LTVIP2026TMIDS24132
Project Name	Heritage Treasures: An In-Depth Analysis of UNESCO World Heritage Sites In Tableau
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:

Component	Tool / Technology	Purpose
Data Source	UNESCO World Heritage CSV, Kaggle Dataset	World Heritage site details, location, category, year of inscription
Visualization	Tableau Desktop	Creating interactive maps, dashboards, and story analysis
Storage	Google Drive / Local System	Storing raw and cleaned datasets
Collaboration	Google Docs	Documentation and report preparation
Deployment	Tableau Public	Publishing and sharing dashboards online

Table 2: Application Characteristics

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	The application uses official UNESCO World Heritage datasets and open geographic data to analyze site distribution, categories (Cultural/Natural/Mixed), and inscription trends globally.	Tableau Desktop, CSV/JSON datasets
2	Security Implementations	Secure access to dashboards is maintained through Tableau Public/Server permissions. Data integrity is ensured during storage and sharing	Tableau Authentication, Access Control, HTTPS
3	Scalable Architecture	The system efficiently handles large global datasets, including site coordinates, historical records, and multi-year trends using optimized data extracts.	Tableau Hyper Engine
4	Availability	Dashboards are accessible online via Tableau Public/Server, allowing stakeholders to explore insights anytime through a web browser.	Tableau Public / Tableau Server

S.No	Characteristics	Description	Technology
5	Performance	Performance is improved using data extracts, filters, and optimized visualizations to ensure fast loading of interactive maps and dashboards.	Tableau Extracts (.hyper), Caching