Project Design Phase-II
Technology Stack (Architecture & Stack)
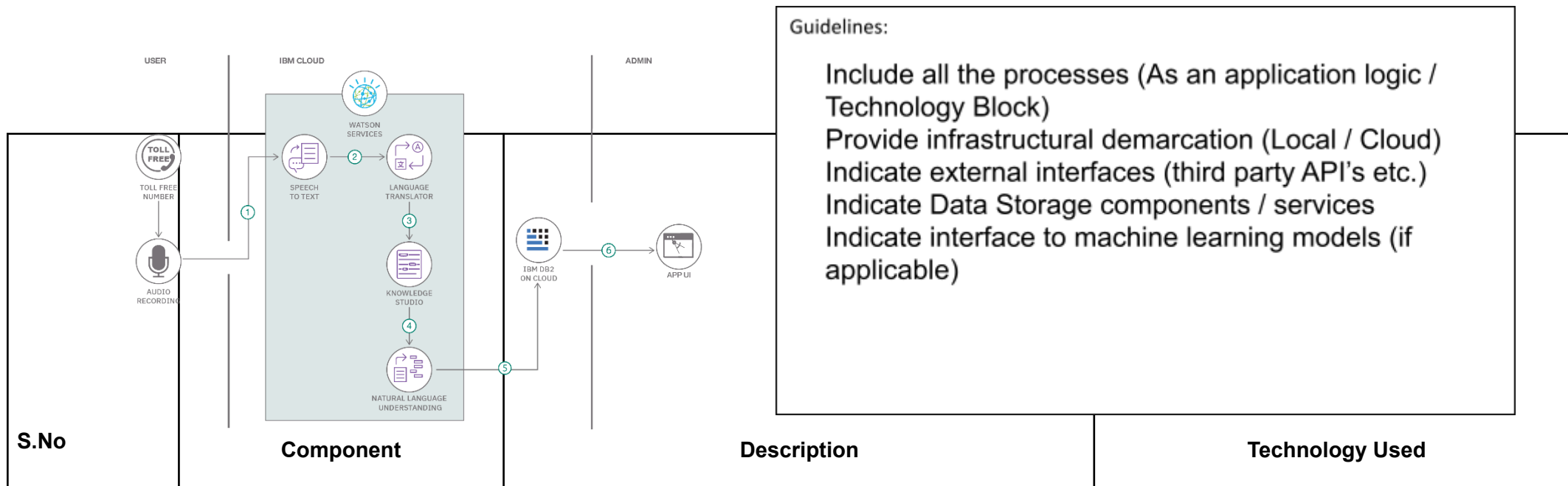
Date	24 June 2025
Team ID	LTVIP2025TMID51596
Project Name	Heritage Treasures: An In-Depth Analysis of UNESCO World Heritage Sites in Tableau
Maximum Marks	4 Marks

Technical Architecture:

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

Example: Order processing during pandemics for offline mode

Reference: https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/

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)

S.No	Component	Description	Technology Used

1	Data Visualization	Created interactive visuals to analyze trends, risks, and distributions	Tableau Public
2	Data Source	UNESCO dataset with site names, categories, locations, regions, and status	CSV / Excel
3	Data Preparation	Cleaned and formatted data for use in Tableau	Microsoft Excel / Google Sheets
4	User Interface Elements	Filters for region/year/category, tooltips, legends, and clickable charts	Tableau UI Components
5	Dashboard Hosting	Published publicly for exploration and sharing	Tableau Public
6	Documentation	Prepared report content, visual summaries, and storytelling flow	MS Word / Google Docs
7	Collaboration Tools	Brainstorming and feedback collection during design process	WhatsApp / Google Docs
8	Project Planning Phase	Defined objectives: region/country-wise trends, endangered sites, site counts	Google Docs, Mural
9	Project Design Phase	Dashboard layout and story flow planning	Tableau Storyboard / Wireframing
10	Performance Testing	Tested responsiveness, clarity, and interactivity	Tableau Preview / Peer Review

Table-2: Application Characteristics:

S.No	Characteristic	Description	Technology
1	Usability	Interactive filters, labels, and intuitive layout for easy exploration	Tableau Interface
2	Security	Public access with no login or data upload required	Tableau Public
3	Accessibility	Viewable across devices and platforms	Tableau Web / Browser
4	Visual Clarity	Color-coded charts and clear legends to distinguish categories and regions	Tableau Visualization
5	Engagement	Story format encourages guided exploration of insights	Tableau Story

https://c4model.com/

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/

https://www.ibm.com/cloud/architecture

https://aws.amazon.com/architecture

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d