

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

Date	11 November 2022
Team ID	PNT2022TMID20674
Project Name	Project Design Phase-II
Maximum Marks	4 Marks

Technical Architecture:

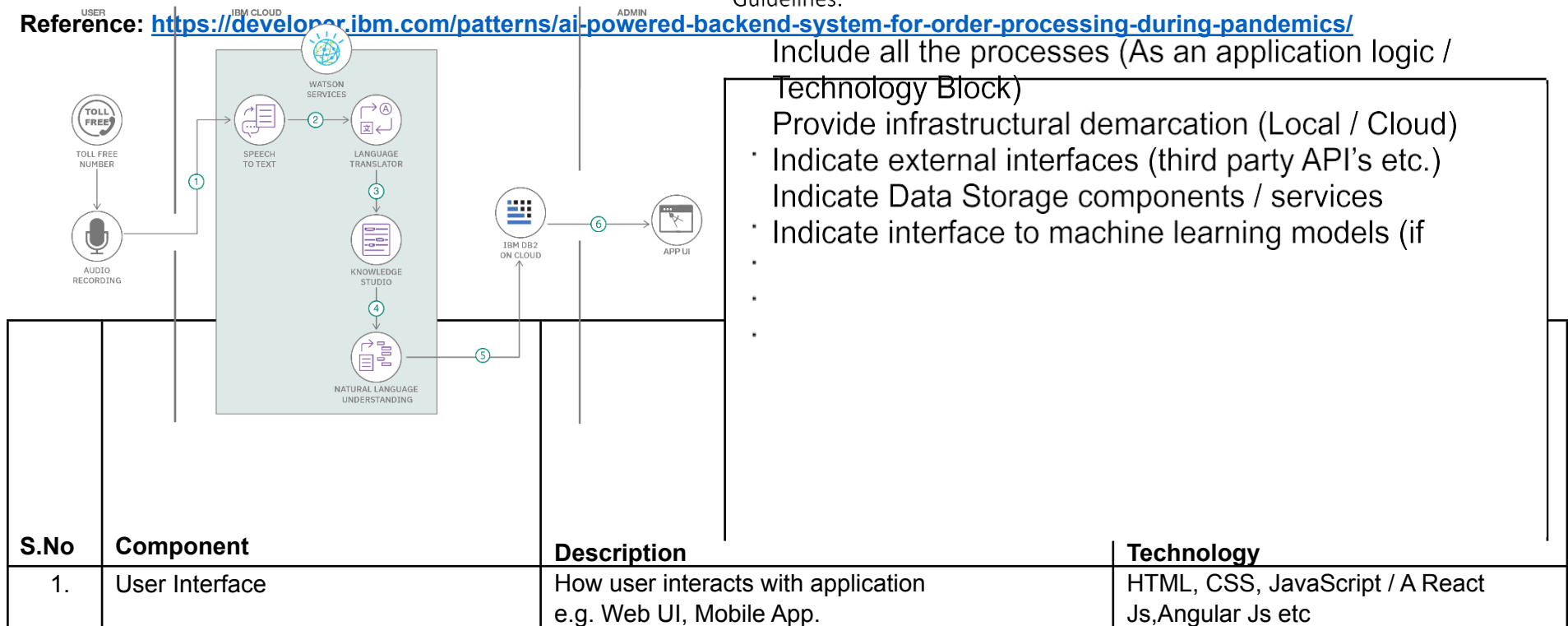
The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

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



2.	Application Logic-1	User class creation	Java/Python
3.	Application Logic-2	Cognos Analytics For Data cleaning and visualization.	IBM Watson Assistant
4.	Database	Data Type, Configurations et.	MySQL, NoSQL, etc.
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	File Storage	6GB RAM,Hard Disk 500GB (Minimum)	IBM Block Storage or Other Storage Service or Local Filesystem
7.	Machine Learning Model	To analyze the data and provide useful solutions and prediction to the user	Employee Attrition Model
8.	Infrastructure (Cloud)	Application Deployment on Cloud	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	react.js
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	SHA-256, Encryptions
3.	Scalable Architecture	Application Used in Small,MidSize and Large Companies	IBM Cloud
4.	Availability	Use of Cloud Platform	IBM Cloud
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

