

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

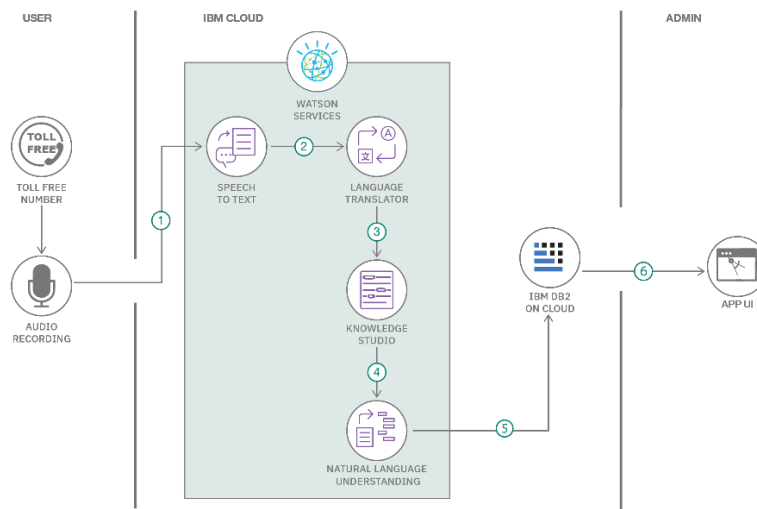
Date	15 October 2022
Team ID	PNT2022TMID33851
Project Name	Project - xxx
Maximum Marks	4 Marks

### 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:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	RFID,NFC,LTE – A, Low Energy Radio Protocols, Raspberry Pi, Rocket chat
2.	Application Logic-1	Logic for a process in the application	MIT App Inventor
3.	Application Logic-2	Logic for a process in the application	Ai2. App Companion
4.	Cloud Database	Database Service on Cloud	IBM cloudant
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	External API-1	Purpose of External API used in the application	Speech to text recognition Application
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Kubernetes, etc.

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
3.	Availability	Justify the availability of application	Technology used
4.	Performance	Design consideration for the performance of the application	Technology used

**References:**

<https://c4model.com/>

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

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