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

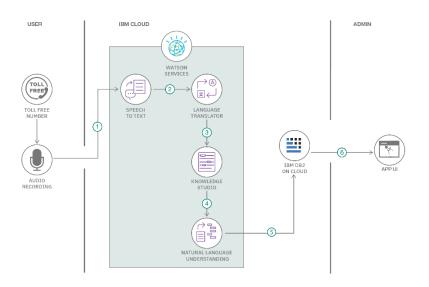
Date	03 October 2022
Team ID	PNT2022TMID37046
roject Name AI based discourse for Banking Industry	
Maximum Marks	4 Marks

#### **Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & 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 e.g. Web UI , Chatbot.	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, DB(Excel)
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM CLOUD API
9.	External API-2	Purpose of External API used in the application	Aadhar API
10.	Machine Learning Model	Purpose of Machine Learning Model	NLP,RNN
11.	Infrastructure (Cloud)	Application Deployment on Cloud Cloud Server Configuration :	IBM Cloud

**Table-2: Application Characteristics:** 

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	NLP,IBM DB, Python
2.	Security Implementations	List all the security / access controls implemented,	OTP , capche verification
		use of firewalls etc.	
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-	Technology used
		services)	
4.	Availability	Justify the availability of application (e.g. use of load	Web api
		balancers, distributed servers etc.)	
5.	Performance	Design consideration for the performance of the	Al
		application (number of requests per sec, use of	
		Cache, use of CDN's) etc.	

### References:

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