

## Project Design Phase-II

### Technology Stack (Architecture & Stack)

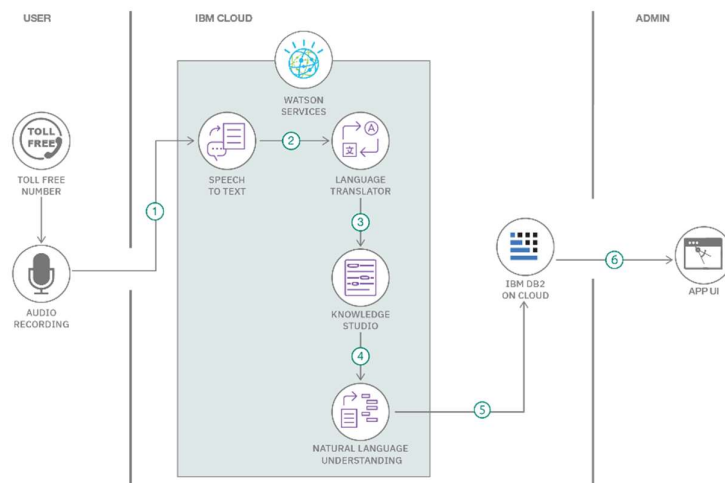
Date	31 January 3035
Team ID	LTVIP2025TMID45342
Project Name	Resolve now
Maximum Marks	4 Marks

#### 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 (A Technology Block)
- Provide infrastructural details
- Indicate external interfaces
- Indicate Data Storage components
- Indicate interface to machine (if applicable)

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

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JS etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python

3.	Application Logic-2	Logic for a process in the application	IBM Wats
4.	Application Logic-3	Logic for a process in the application	IBM Wats
5.	Database	Data Type, Configurations etc.	MySQL, N
6.	Cloud Database	Database Service on Cloud	IBM DB2,
7.	File Storage	File storage requirements	IBM Block or Local F
8.	External API-1	Purpose of External API used in the application	IBM Weat
9.	External API-2	Purpose of External API used in the application	Aadhar AI
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Re
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud  Local Server Configuration:  Cloud Server Configuration :	Local, Clo

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technolog
1.	Open-Source Frameworks	List the open-source frameworks used	Technolog
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technolog
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technolog
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technolog

**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>