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

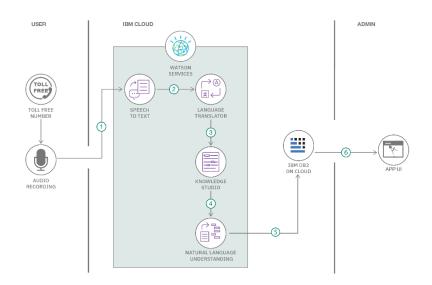
Date	09 November 2022
Team ID	PNT2022TMID29138
Project Name	Project-Analytics for Hospitals' Health-Care Data
Maximum Marks	4 Marks

#### **Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2

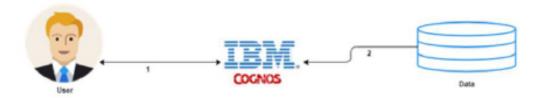
**Example: Order processing during pandemics for offline mode** 

Reference: <a href="https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/">https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/</a>



#### 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)



### Componenets & Technology

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc
2.	Application Logic-1	Logging in as a patient / user in the application	Python
3.	Application Logic-2	Logging in as an admin in the application	IBM Watson Assistant
5.	Database	All the data about patients such as disease, address and etc	MySQL, NoSQL, etc.
6.	Cloud Database	IBM Watson cloud is used for storage, Cloud	IBM DB2, IBM Cloudant etc.
7.	External API-1	Purpose of External API used in the application	Aadhar API, etc
8.	Machine Learning Model	Purpose of Machine Learning Model	Regression Model, etc.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration, Cloud Server Configuration	Local, Cloud Foundry, Kubernetes, etc.

## **Applications characterstics**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryption.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Can supports higher workloads
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Highly available
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	It performs good uses various tools and ideas in a scientific manner to meet the desired outcomes