

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

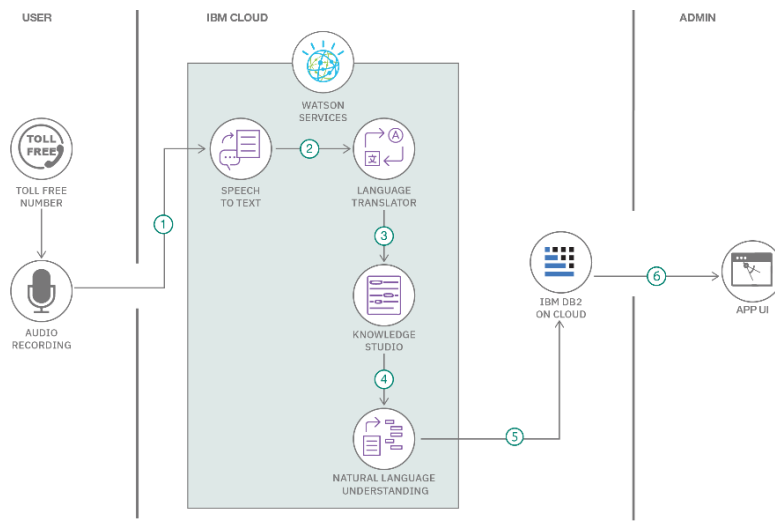
Date	03 November 2023
Team ID	1D015AF4C17E799BE114EB7CCBA26BCB
Project Name	Project - <b>Data Titans</b> : Unearthing Trends from LinkedIn Influencers
Maximum Marks	

### Technical Architecture:

Outlines the high-level structure and components of a system, defining how they interact to support the overall functionality and performance of the system.

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



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

S.No	Component	Description	Technology
1.	User Interface	User interacts with application e.g.Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript etc.
2.	Application Logic-1	Logic for the project is already in the Project documentation	Python
3.	Application Logic-2	Logic for the project is already in the Project documentation	IBM Watson STT service
4.	Application Logic-3	Logic for the project is already in the Project documentation	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	100 MB	IBM Block Storage
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Bootstrap	JavaScript
2.	Security Implementations	Encryptions and IAM	SHA-256, Encryptions, IAM Controls and OWASP
3.	Scalable Architecture	3 – tier andMicro-services	Flask for Python

S.No	Characteristics	Description	Technology
4.	Availability	Distributed servers and load balancers	Distributed Systems
5.	Performance	Uses the Cache and CDN's	CDN