

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

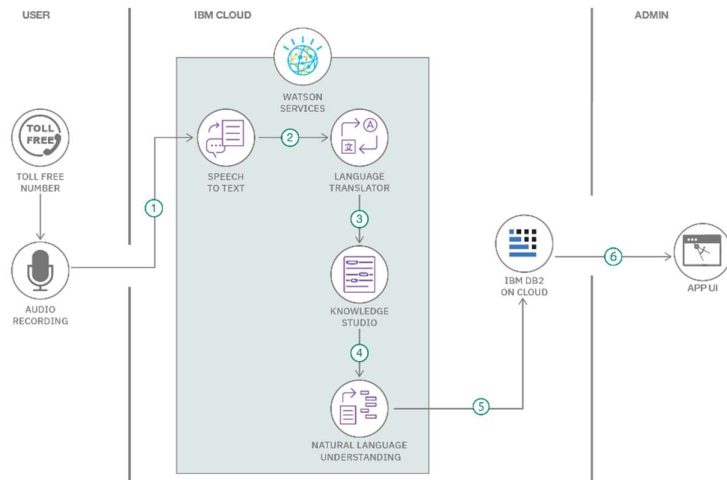
Date	03 October 2022
Team ID	PNT2022TMIDxxxxxx
Project Name	Project - xxx
Maximum Marks	4 Marks

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	This allows customers to check in for their flights online or at the airport.	HTML, CSS
2.	Application Logic-1	This involves setting the prices for flights	Java
3.	Application Logic-2	This involves processing customer bookings.	Ava, python, or c++
4.	Application Logic-3	This involves managing the complex fare rules that govern airline pricing.	Java, Python, or C++
5.	Database data	Data quality and accuracy	MySQL, NoSQL
6.	Cloud Database	A relational database that is compatible with MySQL and PostgreSQL	Microsoft Azure, or Google Cloud Platform
7.	File Storage	airline file storage is a valuable tool that can help airlines to improve their efficiency	Google Cloud Storage
8.	External API-1	The airline file external API-1 is typically based on a standard protocol	SOAP or REST
9.	External API-2	The airline file external API-1 can be a valuable tool for airlines	SOAP or REST
10.	Machine Learning Model	ML can be used to analyze customer data	email
11.	Infrastructure (Server / Cloud)	airline file infrastructure is an essential part of the airline industry	compute power, storage

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>