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

Date	03 October 2022
Team ID	PNT2022TMID53208
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Reference: https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/
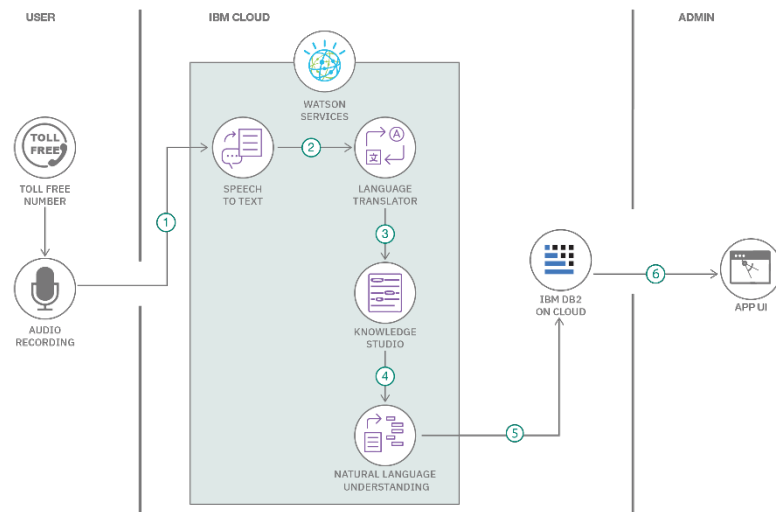
Guidelines:

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)

S.No	Component	Description	Technology
1	User Interface	How user interacts with application - Web UI	HTML, CSS, JavaScript
2	Cloud Database	Database Service on Cloud	Google drive
3	File Storage	File storage requirements	Local Filesystem
4	Machine Learning Model	The machine learning model, CNN, classifies the gesture uploaded and does the appropriate function, like zoom in, zoom out, rotate and navigate, intended by the gesture	Keras, Tensorflow, OpenCV
5	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	List the open-source frameworks used	Keras, Tensorflow, OpenCV
2	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.

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