Project Design Phase-II
Technology Architecture

Date	03 October 2022
Team ID	PNT2022TMID30121
Project Name	Project – A Gesture Based Tool For Sterile Browsing of Radiology Images
Maximum Marks	4 Marks

Technical Architecture:

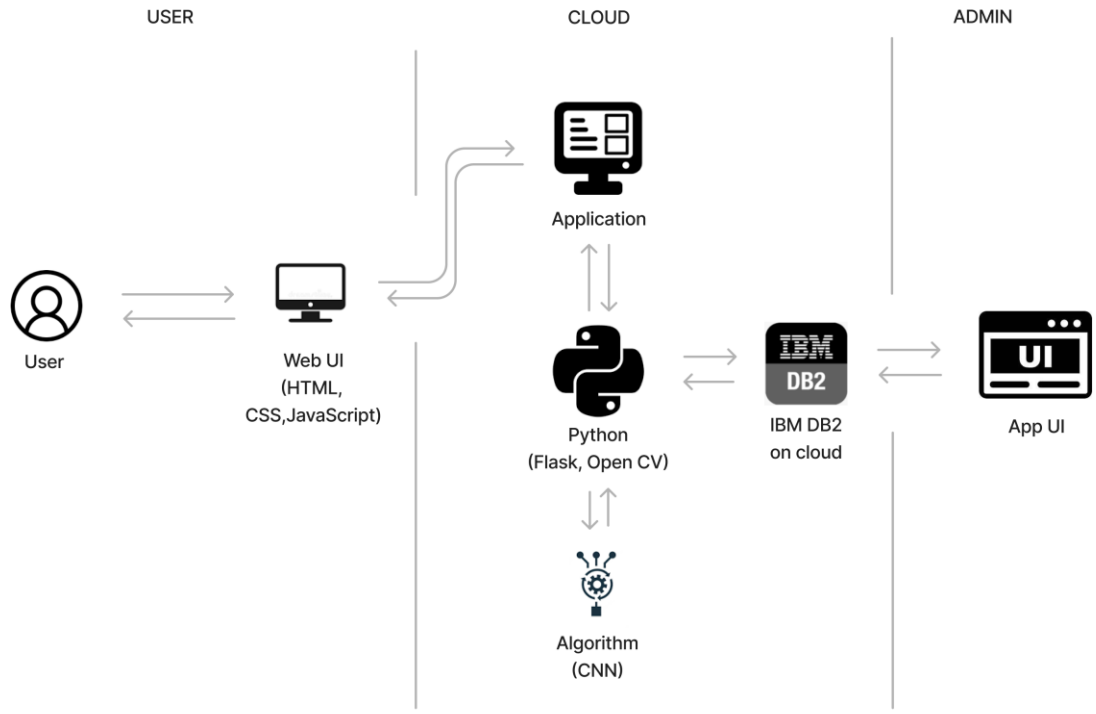

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Users interact with the applications using Web UI	HTML, CSS, JavaScript
2.	Launch	Launching the application by clicking the launch option	Python
3.	Upload	Uploading the photo for performing actions	IBM DB2
4.	User Application	Turning on the camera to perform the desired action	Open CV
5.	File Storage	All code required for running the application is stored in the cloud.	IBM Cloud
6.	Machine Learning Model	Performing image recognition and processing of pixel data	CNN
7.	Infrastructure (Server)	Application Deployment on Local System Local Server Configuration: Intel Core i5 10th Generation, Graphics – nvdia Geforce GTX 1650	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python Flask microframework is used	Python Flask
2.	Security Implementations	Mandatory Access Control (MAC) and Preventative Security control are used	Encryptions
3.	Scalable Architecture	3 – tier architecture	Web Server – HTML, CSS, JavaScript Application – Python Camera Access – Open CV
4.	Availability	Availability of the application for the users	Web browser
5.	Performance	Performance of the application in the web browser	Internet bandwidth