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

Date	03 October 2022
Team ID	PNT2022TMID35818
Project Name	A Gesture - Based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks

Technical Architecture:

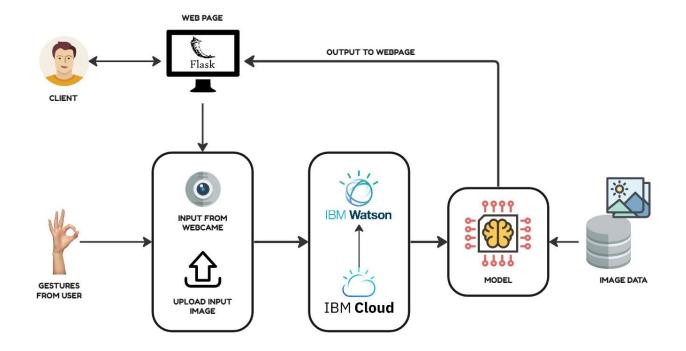


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts good and easy with application	HTML, CSS
2.	Application Logic-1	User Input feed	Java / Python
3.	Application Logic-2	Creating Model	IBM Watson STT service
4.	Application Logic-3	Getting Correct Hand Gestures	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	File storage requirements and storage in clouds	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model using CNN, etc.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Using Flask Cloud Server Configuration: Using IBM Waston	Python Flash, IBM cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open-source frameworks used is IBM Watson	IBM Watson
2.	Security Implementations	Certified Watson assistant for	IBM Watson
		Encrypted file systems & Key management	
		system	
3.	Scalable Architecture	Web application Dynamic Updating	Python, IBM Watson
		2. Correct Gesture detection	
		3. Feedback corrections	
		4. Integration of new features for gesture recognition	
4.	Availability	Application is available is user all time	IBM Watson Cloud assistance
5.	Performance	Good Performance automation process with IBM	IBM Watson Assistance
		Watson	