Project Design Phase-II
Data Flow Diagram & User Stories

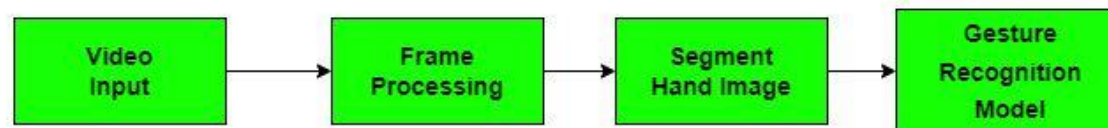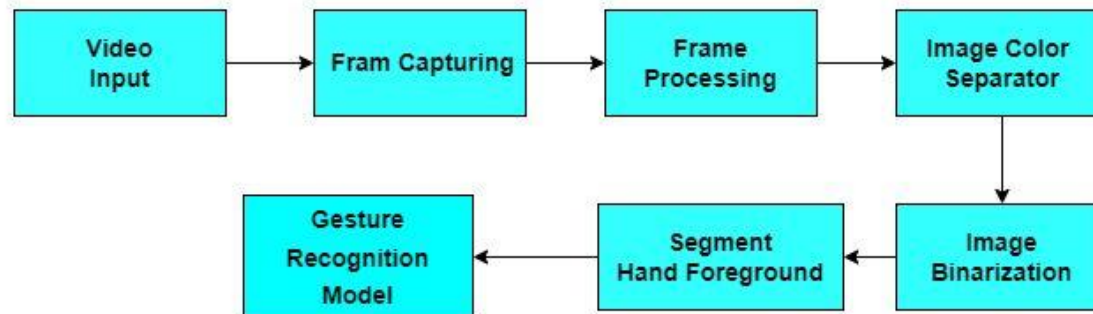| Date	03 October 2022
Team ID	PNT2022TMID53060
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology
Maximum Marks	4 Marks

Data Flow Diagram:
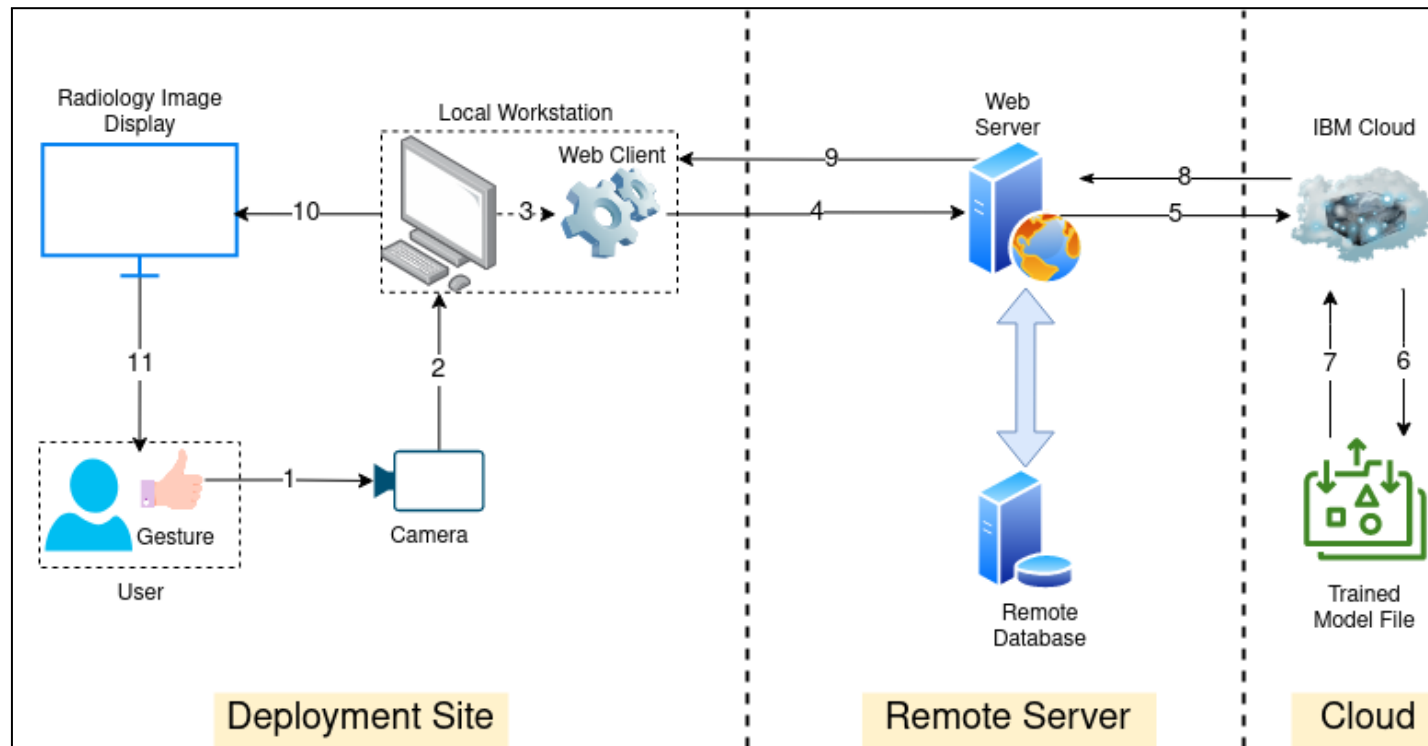
Data Flow Diagram - Level 0

Hand Gesture → Web Application → Gesture Recognition Model

Data Flow Diagram - Level 1

Video Input → Frame Processing → Segment Hand Image → Gesture Recognition Model

Data Flow Diagram - Level 2

Video Input → Fram Capturing → Frame Processing → Image Color Separator → Image Binarization → Segment Hand Foreground → Gesture Recognition Model

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web User)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account/dashboard.	High	Sprint-1
Customer (Web User)	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive a confirmation email.	High	Sprint-1
Customer (Web User)	Dashboard	USN-3	As a user, I can log in and access my dashboard page.	I can use the sign-in button and log in to my personalized dashboard.	High	Sprint-1
Customer (Web User)	User Action	USN-4	As a user, I can upload an image of my hand for gesture classification.	I can access my dashboard to upload an image.	High	Sprint-2
Customer (Web User)	User Action	USN-5	As a user, I can access my webcam and take a snapshot/image of my hand for gesture classification.	I can enable webcam access and take a photo.	Medium	Sprint-2
Customer (Web User)	Dashboard	USN-6	As a user, I can view my dashboard to see the classified gesture after uploading an image to the application.	I can view the classified gesture after uploading an image to the application.	High	Sprint-2
Administrator	Model Enhancement	USN-7	As a user, I need a Deep Learning model that can recognize hand gestures with a low error.	The accuracy of the new model should be better than the old one.	Medium	Sprint-2
Administrator	Cloud Deployment	USN-8	As a user, I need the application to be accessible worldwide.	I can access the application from anywhere in the world and at any time.	High	Sprint-3
Administrator	Cloud Deployment	USN-9	As a user, I need the deep learning model to be accessible worldwide.	I can run predictions from anywhere in the world and at any time.	High	Sprint-3
Customer (Web User)	User Action	USN-10	As a user, I should be able to access my dashboard to change my password.	I can change my password and login with my new credentials.	Low	Sprint-3
Customer Care Executive	Warning	USN-11	As a user, I should be alerted in case:	I should be alerted in case my files are corrupted.	Medium	Sprint-4

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			1. The application can't access my webcam 2. The image I took/uploaded is corrupted			
Customer (Web User)	Launch Application	USN-12	As a user, I can launch the application and upload images of hands for gesture recognition.	I can access the application from anywhere in the world and at any time.	High	Sprint-4
Customer (Web User)	Prediction	USN-13	As a user, I can get the predicted results from the model deployed in the cloud.	I can run predictions from anywhere in the world and at any time.	High	Sprint-4