Project Design Phase-II

Date	31 October 2022
Team ID	PNT2022TMID20976
Project Name	**A Gesture- based tool for sterile browsing of Radiology Images**
Maximum Marks	4 Marks

Architecture:

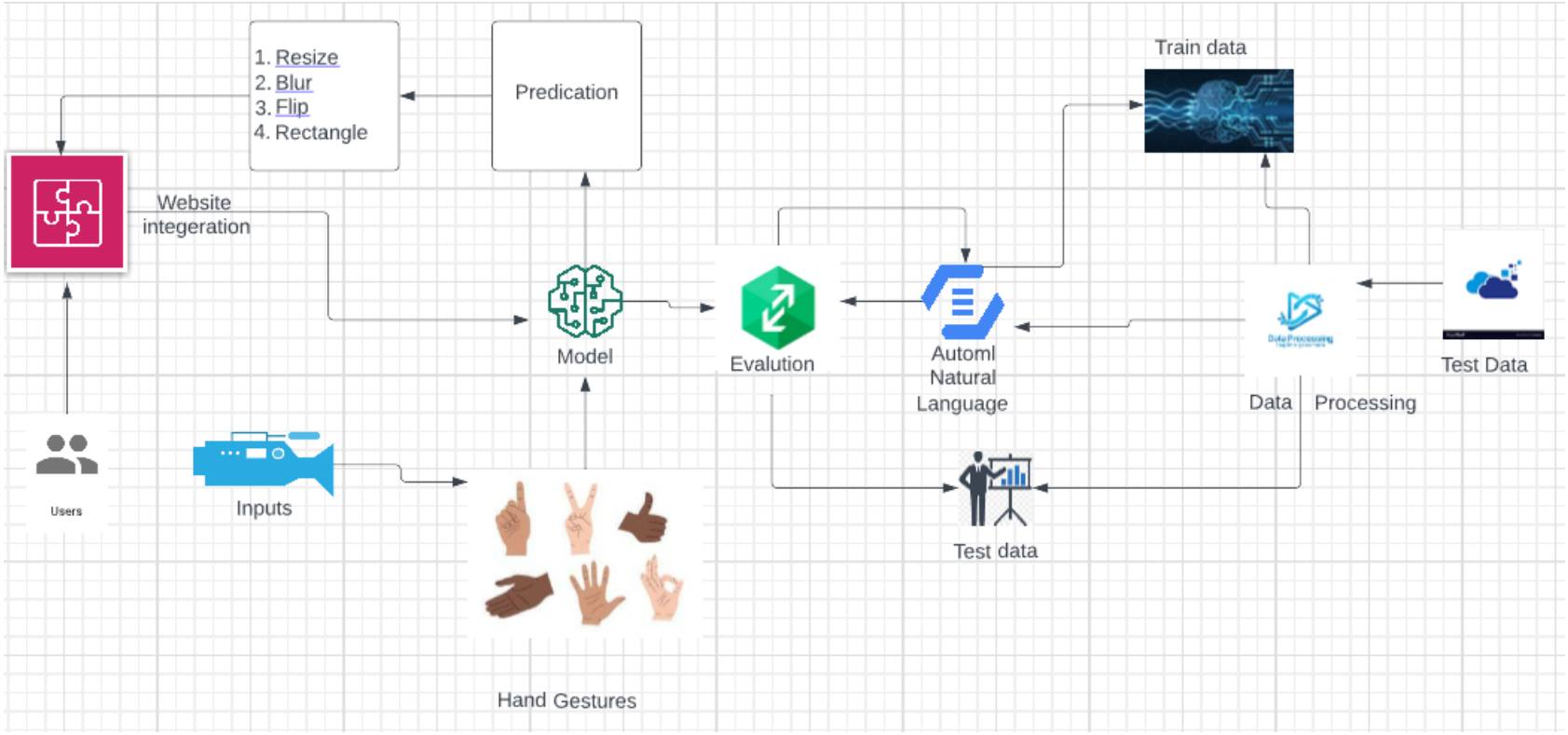

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web Application, Website UI/UX	HTML, CSS, JavaScript, Bootstrap
2.	Application Logic-1	Upload image in an application. For prediction	Python (Flask)
3.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
4.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
5.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.
6.	Convolutional Neural Network	Initialize the model	CNN Layer

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Open-source framework
2.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used AI/ML
3.	Availability	Justify the availability of application (e.g., use of load balancers, distributed servers etc.)	Technology used IBM servers
4.	Performance	The system responds to the user in a second and the hardware and software works well	Technology used GPU of google colab