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

Date	03 October 2022
Team ID	PNT2022TMID592899
Project Name	Project - 029
Maximum Marks	4 Marks

Technical Architecture:
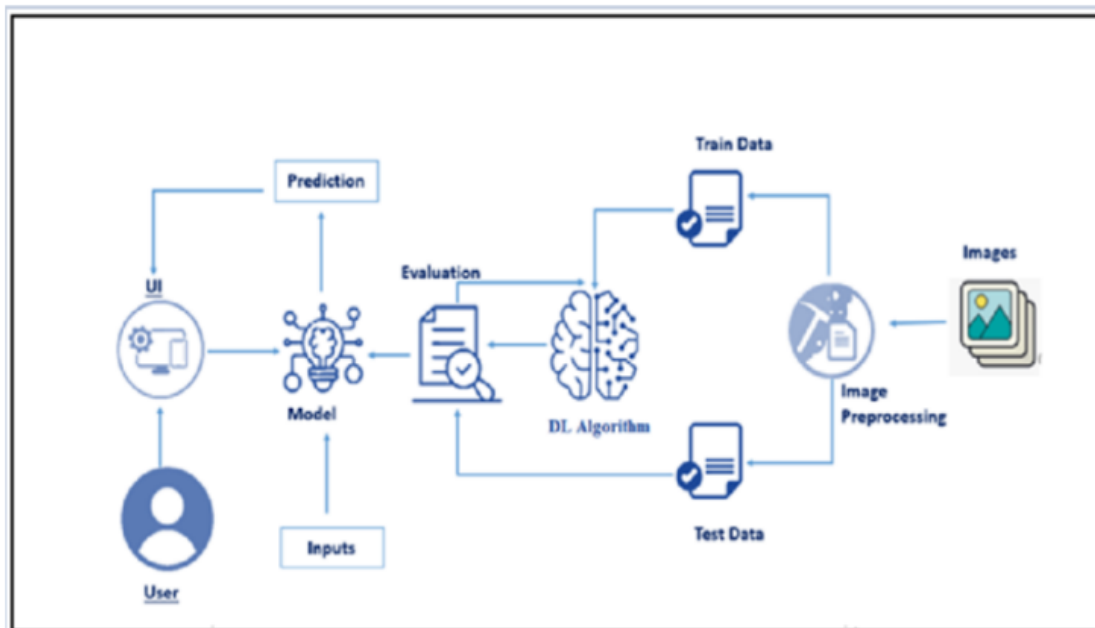
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI for user interaction	HTML, CSS, JavaScript
2.	Application Logic-1	Python for main application logic	Python
3.	Application Logic-2	Integrated machine learning model	VGG16 Model (Machine Learning)
4.	Application Logic-3	Integrated Flask for backend logic	Python, Flask
5.	Database	No database used	-
6.	Cloud Database	No cloud database used	-
7.	File Storage	Local file storage requirements	Local Filesystem
8.	External API-1	No external API used	-
9.	External API-2	No external API used	-
10.	Machine Learning Model	Object Recognition Model	VGG16 Machine Learning Model
11.	Infrastructure (Server / Cloud)	Deployment on local system	Local server deployment

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology

1.	Open-Source Frameworks	TensorFlow, Flask	TensorFlow, Flask
2.	Security Implementations	No specific security implementations utilized	-
3.	Scalable Architecture	No specific scalability implementations utilized	-

S.No	Characteristics	Description	Technology
4.	Availability	Application runs on user's machine and is therefore available as long as the user's machine has adequate resources to run the application	-
5.	Performance	GPU accelerated training to reduce training time	GPU acceleration