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

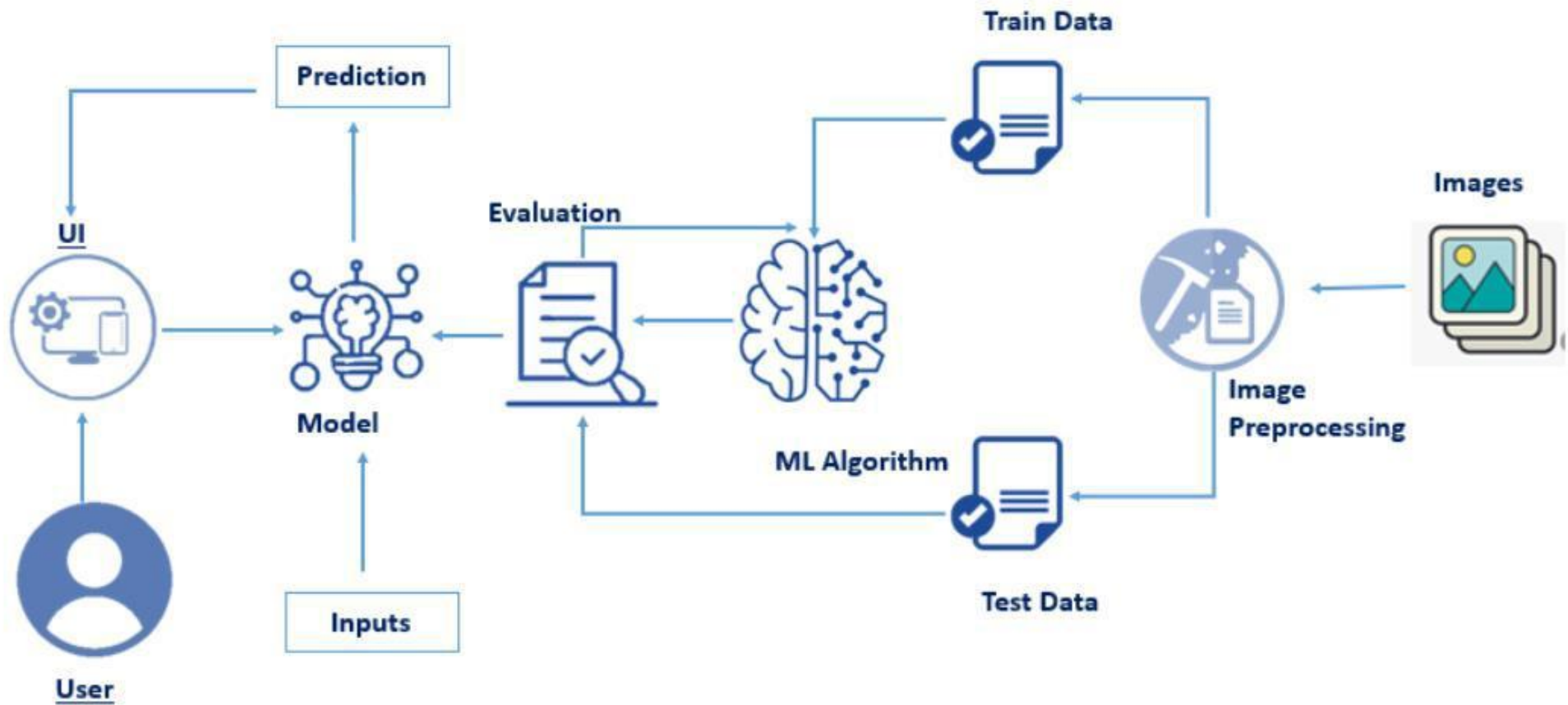| Date	03 October 2022
Team Members	Kamali Sri J Karthika S Kavya M Nayana A S
Project Name	Detection of Parkinson's Disease Using Machine Learning.
Maximum Marks	4 Marks

TECHNICAL ARCHITECTURE:

TABLE - 1

COMPONENTS AND TECHNOLOGIES:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript .
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM Cloudant
7.	File Storage	File storage requirements	Local Filesystem
8.	External API-1	Purpose of External API used in the application	
9.	External API-2	Purpose of External API used in the application	
10.	Machine Learning Model	Purpose of Machine Learning Model	Random Forest Classifier ,Histogram of Oriented Gradients.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local

TABLE - 2

APPLICATION CHARACTERISTICS:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask Framework	Written in Python. It is classified as a micro framework because it does not require particular tools or libraries. It has no database abstraction layer, form validation or any other components where pre-existing third-party libraries provide common functions.
2.	Security Implementations	With all aspects of the job including detecting malicious attacks, analysing the network endpoint protection and vulnerability assessment ,sign in encryption.	IBM Cloud App ID Services.
3.	Scalable Architecture	The website is scalable.	-
4.	Availability	Available for all data size.	-
5.	Performance	Can extend the storage according to our needs.	Python, Angular JS.