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

Date	18 October 2022
Team ID	PNT2022TMID53604
Project Name	Detecting Parkinson's Disease using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

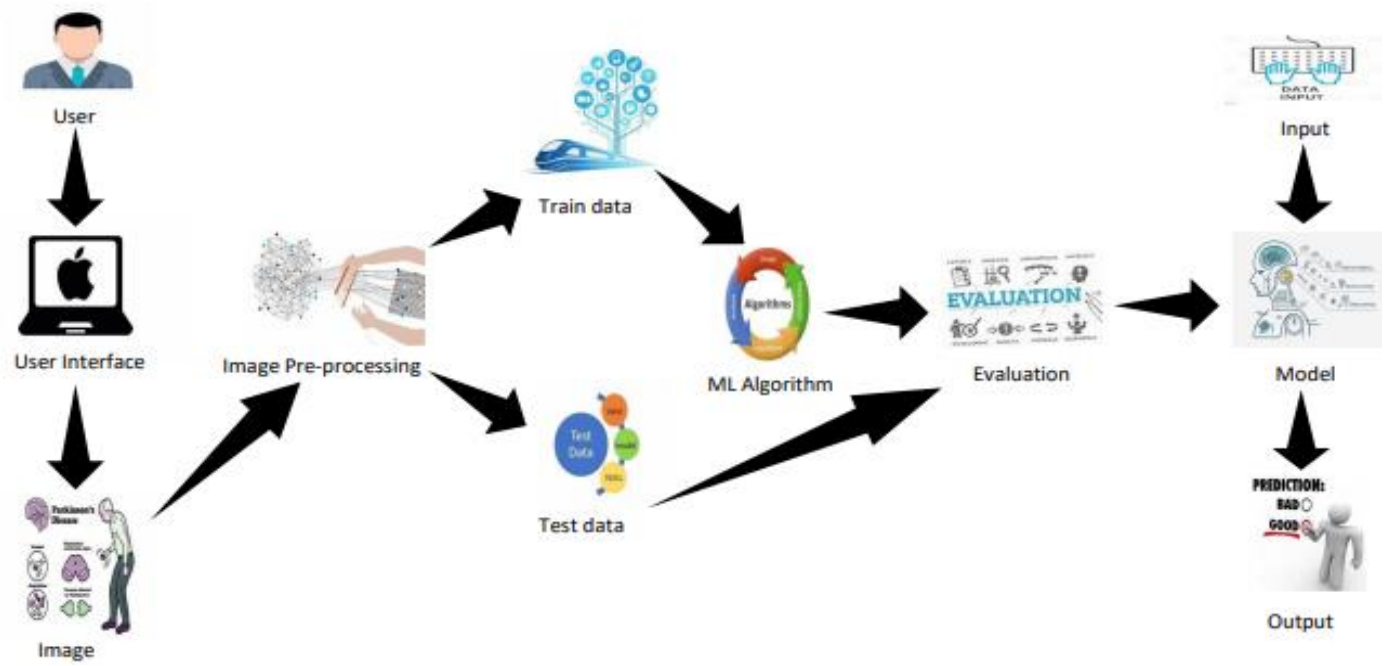

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Java / 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	MySQL, NoSQL,
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	File storage requirements	IBM Block Storage, Local File system
8.	External API-1	Purpose of External API used in the application	Authentication API
9.	External API-2	Purpose of External API used in the application	Disease detection API,
10.	Machine Learning Model	Purpose of Machine Learning Model	Random forest algorithm
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local server configuration: local system Cloud server configuration : IBM Watson

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Java, Github, Numpy, Pandas, Scikit learn
2.	Scalable Architecture	Justify the scalability of architecture	MySQL - It stores huge amount of data
3.	Availability	Justify the availability of application	IBM Watson - It could be easily accessed
4.	Performance	Design consideration for the performance of the application	Flask - It handles multiple request