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

Date	27 October 2022
Team ID	PNT2022TMID21290
Project Name	Early detection of chronic kidney 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

Example: Early detection of chronic kidney disease using Machine Learning

Reference: **https://smartinternz.com/guided-project/chronic-kidney-disease-analysis-using-machine-learning**

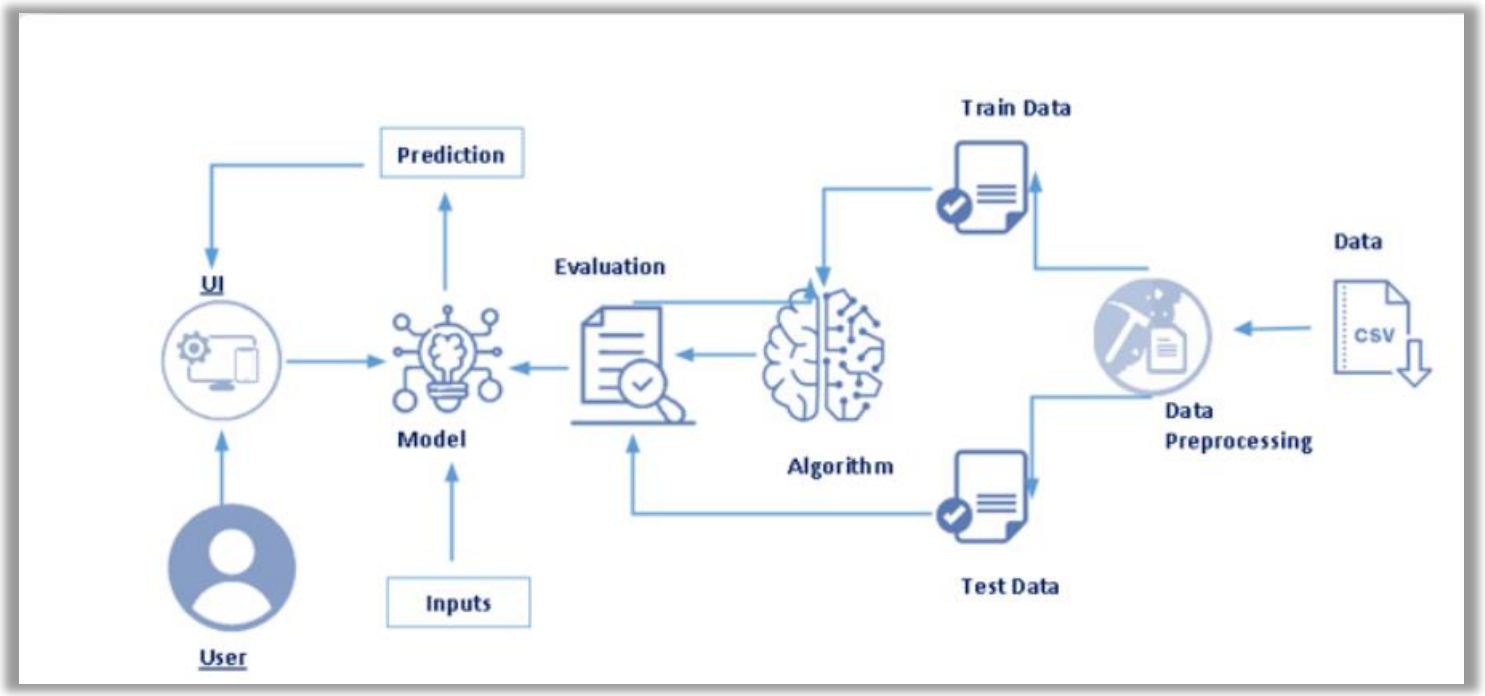

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS, Flask
2.	Application Logic-1	Machine learning algorithm is developed	Python (Jupyter Notebook)
3.	Application Logic-2	Deploy the ML model	IBM Watson

4.	File Storage	The dataset should be stored priorly so that it can be loaded when required	Local Filesystem
5.	Machine Learning Model	Machine Learning Model is used to predict if the user has chronic kidney disease	Random Forest
6.	Infrastructure (Server / Cloud)	Application id deployed on Local System	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Jupyter Notebook, Flask	Python
2.	Scalable Architecture	It is a 3-tier architecture which enables the scalability	HTML, CSS
3.	Availability	The application is available for use by all as it uses open-source frameworks only	Jupyter Notebook
4.	Performance	The performance of the application is based on the accuracy of the Machine Learning Model used	Jupyter Notebook

References:

https://smartinternz.com/guided-project/chronic-kidney-disease-analysis-using-machine-learning