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

Date	10 November 2022
Team ID	PNT2022TMID05509
Project Name	Project - Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

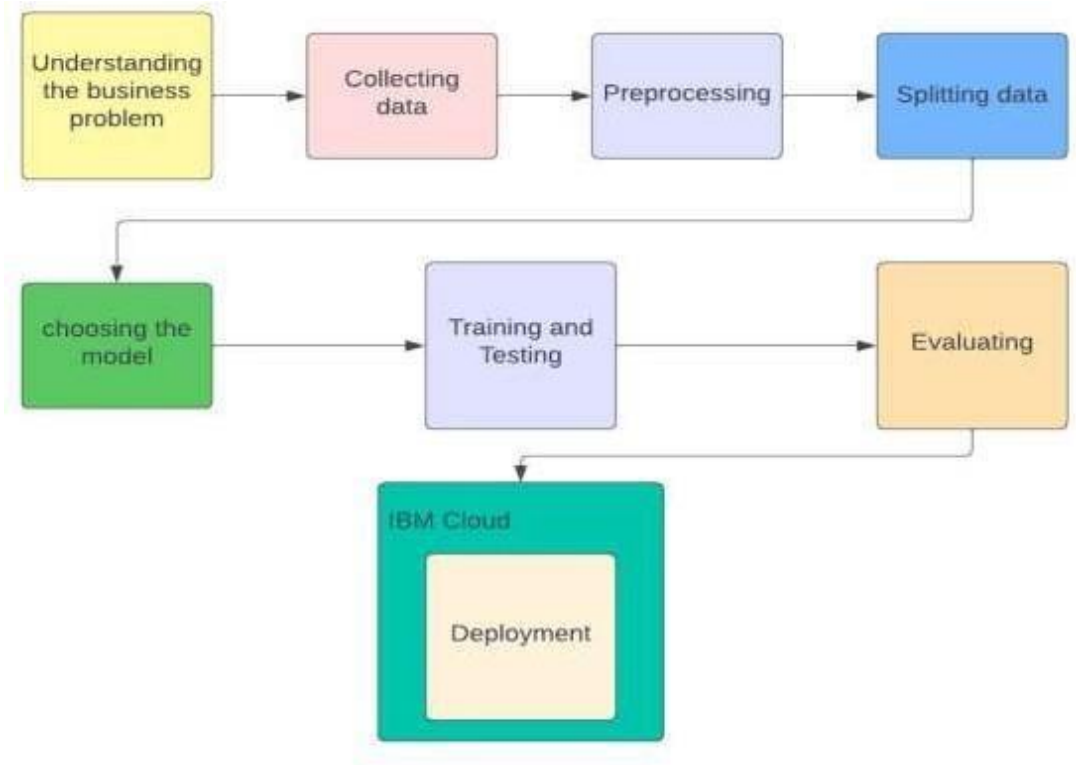

Table-1 : Components & Technologies:

S.N o	Component	Description	Technology
1	User Interface	How user interacts with application e.g. Web UI	HTML, CSS, Python Flask
2	Application Logic-1	Get input from the user	HTML, CSS, Python Flask
3	Application Logic-2	Predicts based on the provided input	Python
4	Application Logic-3	Displays the predicted Result	Python, HTML, CSS, Flask
5	File Storage	File storage requirements	IBM CLOUD
6	Machine Learning Model	Random Forest, Regression techniques, Decision tree and SVM	Prediction and Classification
7	Infrastructure (Server / Cloud)	Cloud Deployment	IBM CLOUD

Table-2: Application Characteristics:

References:

S.N o	Characteristics	Description	Technology
1	Open-Source Frameworks	Development and Deployment	IBM Cloud, Python
2	Security Implementations	Security provided by IBM Cloud	Workload Protection, Identity and Access Protection
3	Scalable Architecture	Model can be scalable	Python
4	Availability	Available in the cloud	IBM CLOUD
5	Performance	High accuracy Performance	Machine Learning Prediction and Classification techniques