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

Date	15 October 2022
Team ID	PNT2022TMID44392
Project Name	Project - Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

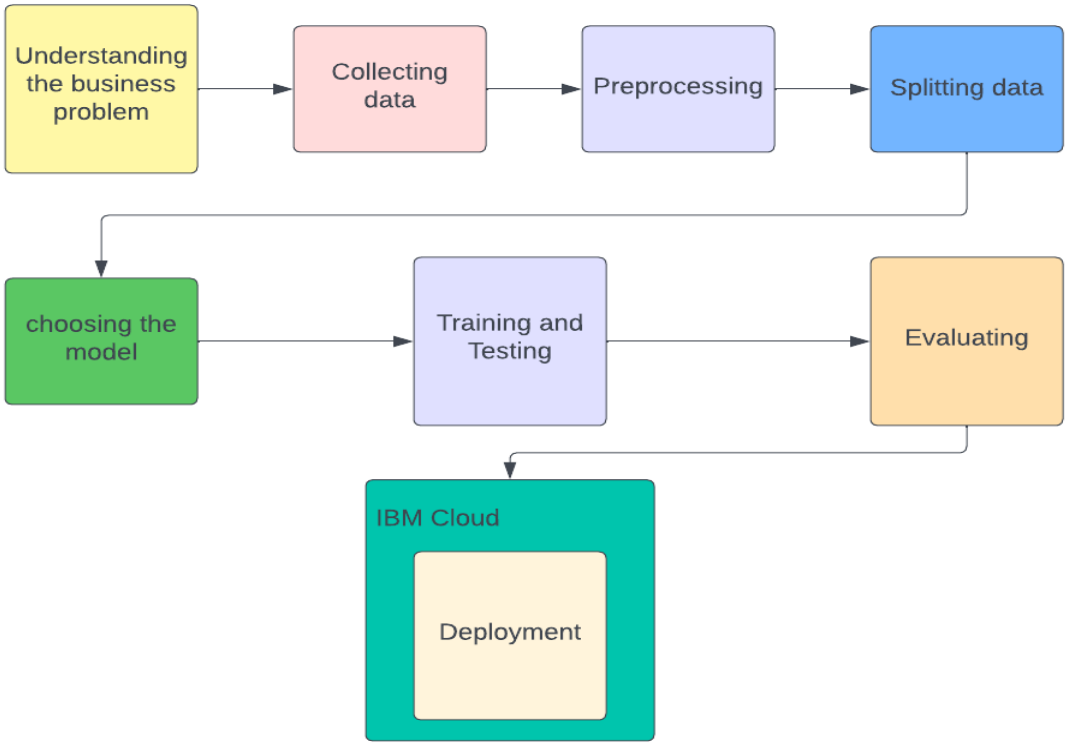

Table-1 : Components & Technologies:

S.No	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:

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Development and Deployment	IBM Cloud,Python
2	Security Implementations	Secutiry 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

References:

https://www.ibm.com/in-en/cloud-security?utm_content=SRCWW&p1=Search&p4=437000526581505 83&p5=e&gclid=CjwKCAjwtKmaBhBMEiwAyINuwJox0TDWprc7hp189HpjBfjAmN0isGe3Etmvr9criDif_P_D-ZckNxoCBJgQAvD_BwE&gclsrc=aw.ds

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https://scikit-learn.org/stable/supervised_learning.html#supervised-learning