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

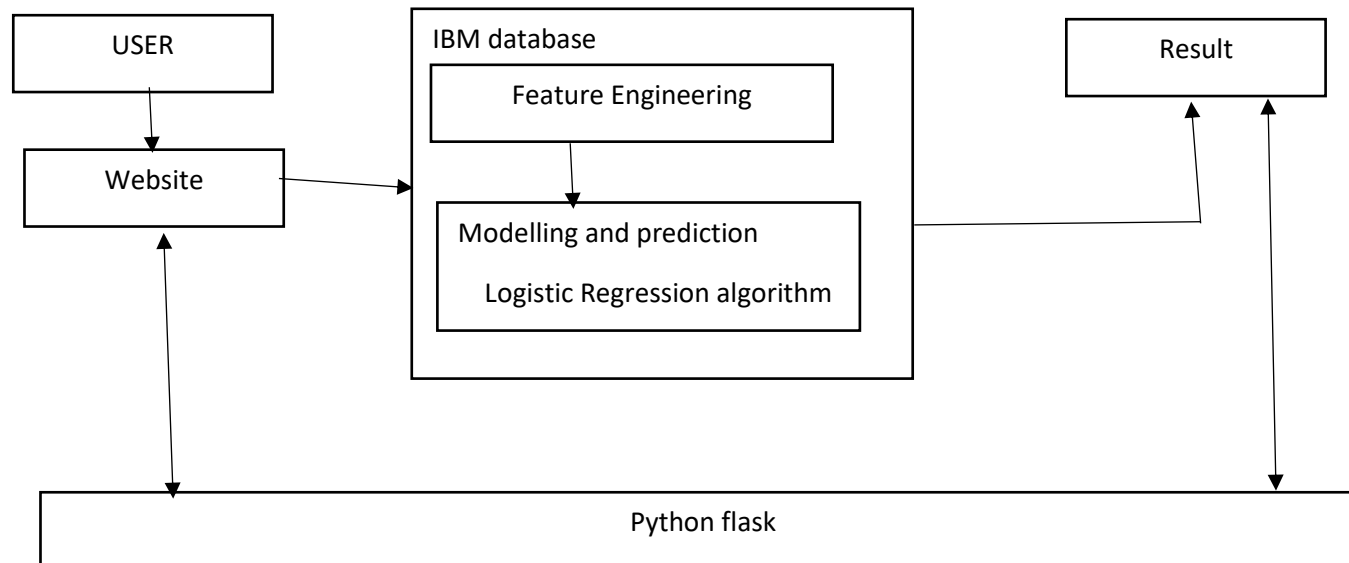| Date	15 October 2022
Team ID	PNT2022TMID06876
Project Name	Project - Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 Marks

Technology 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	Logistic Regression algorithm	**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**