

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

Date	13 November 2022
Team ID	PNT2022TMID14357
Project Name	Project – Early detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

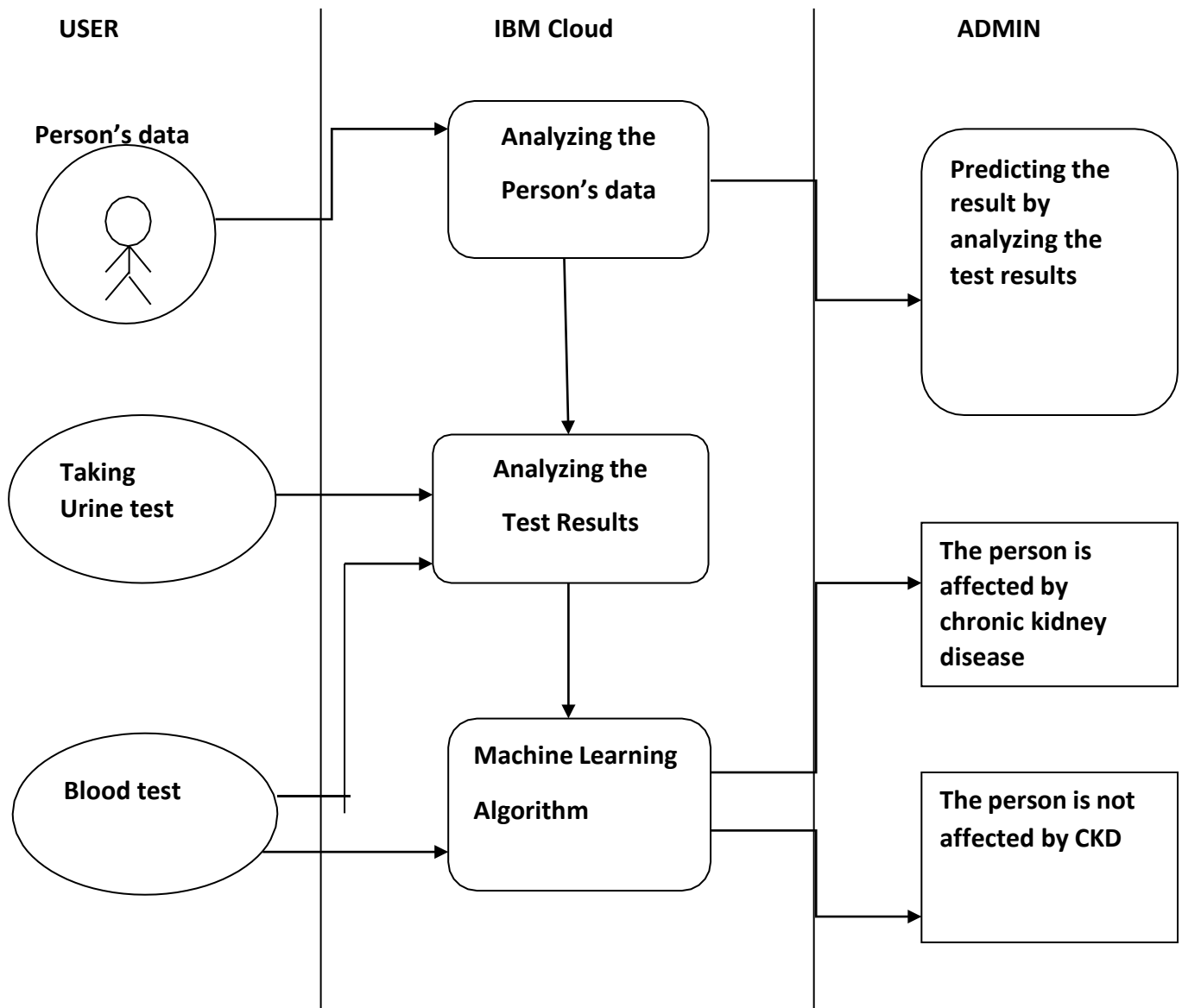


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interaction e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript
2.	Data preprocessing	Extracting the dataset	Python
3.	Splitting the data	The dataset is extracted and split and tested.	Python
4.	Test the model	Testing the model using test data	Python
5.	Evaluation	Evaluating the built model.	Python
6.	Machine Learning Model	The Machine learning model which takes the input parameter given by the user and predict the result.	IBM cloud platform

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask for Python programming	Flask micro web framework
2.	Scalable Architecture	The website should be able to handle influx or reduced traffic at any given point	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Availability	The application should be accessible to users with an internet connection	IBM Cloud

S.No	Characteristics	Description	Technology
4.	Performance	Multiple users should be able to access the application at the same time	Technology used