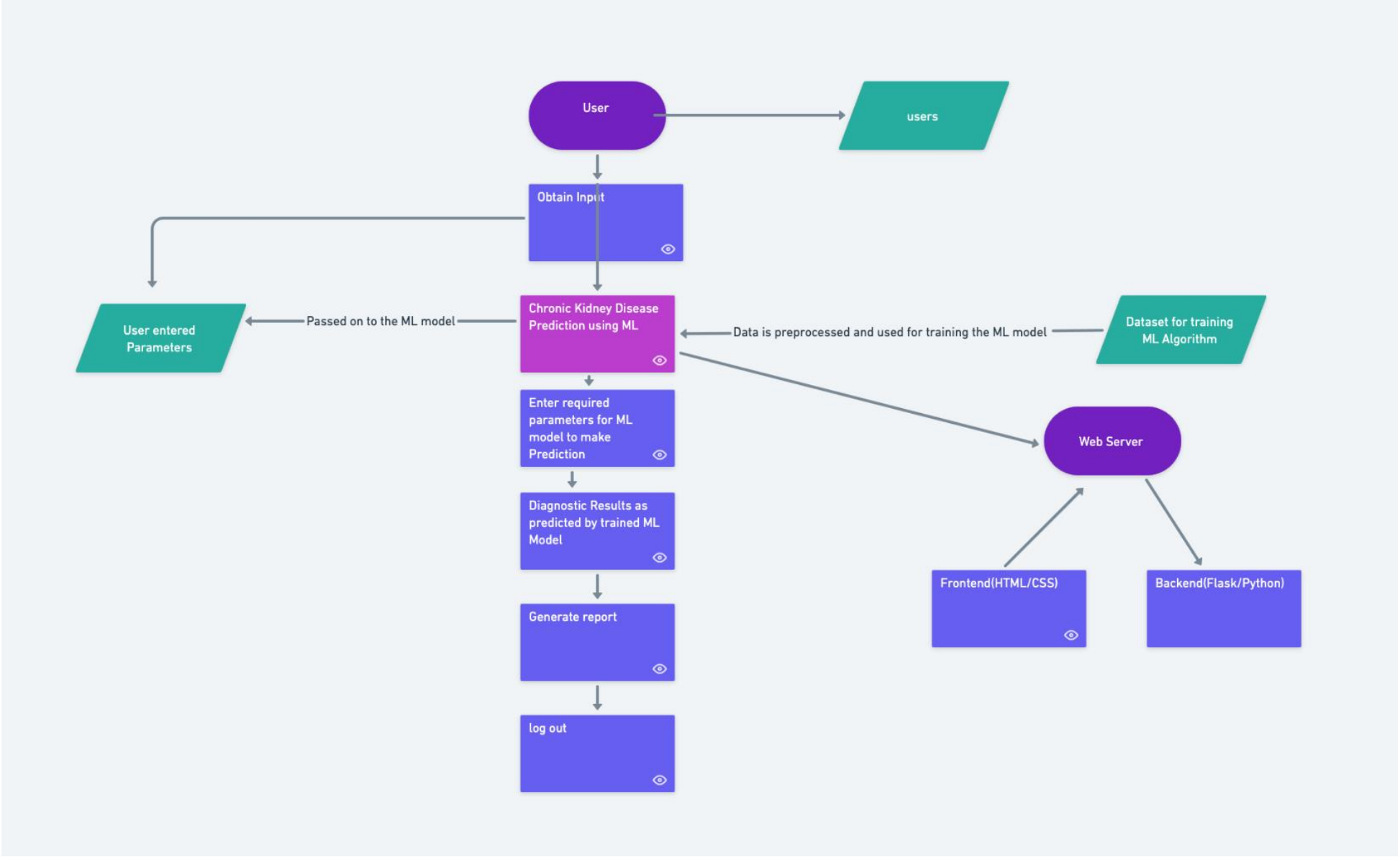
Project Design Phase-II
Data Flow Diagram & User Stories

Date	22 October 2022
Team ID	PNT2022TMID12535
Project Name	Project -Early Detection of Chronic Kidney Disease Using Machine Learning
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.


User
users
Obtain Input
User entered Parameters
Passed on to the ML model
Chronic Kidney Disease Prediction using ML
Data is preprocessed and used for training the ML model
Dataset for training ML Algorithm
Enter required parameters for ML model to make Prediction
Web Server
Diagnostic Results as predicted by trained ML Model
Frontend(HTML/CSS)
Backend(Flask/Python)
Generate report
log out

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (web user)	Home page	USN 1	As a user, I can see the home page of the application	I can access the home page of the application	Medium	Sprint-3
	Dashboard	USN 2	As a user, I must lead to a page where it asks the necessary parameters required to make the prediction	I can enter the input parameters	High	Sprint-3
	Result	USN 3	As a user, I must lead to a page where I can view the result generated by the application (Prediction result – Positive/Negative)	I can view negative/ positive results produced after diagnosis	High	Sprint-3
Administrator		USN 4	As an administrator, I should collect the data and pre-process the data	I should collect the data and pre-process the data	High	Sprint-1
		USN 5	As an administrator, I should identify the most significant factors that lead to CKD based on the present trend and come up with the input parameter that should be given by the user for CKD prediction	I must identify input parameters required for CKD prediction	High	Sprint-2
		USN 6	As an administrator, I must use the most suitable ML model for detection of CKD	I should efficiently train the ML model	High	Sprint-2
		USN 7	As an administrator, I should develop a web application using Flask (Creating homepage, input page and result page using HTML and integrating ML model)	I should develop the web application	High	Sprint-3
		USN 8	As an administrator, I must ensure that the application is live and is accessible on any device with internet connectivity (Deploying on IBM cloud)	I should deploy the model on cloud	High	Sprint-4