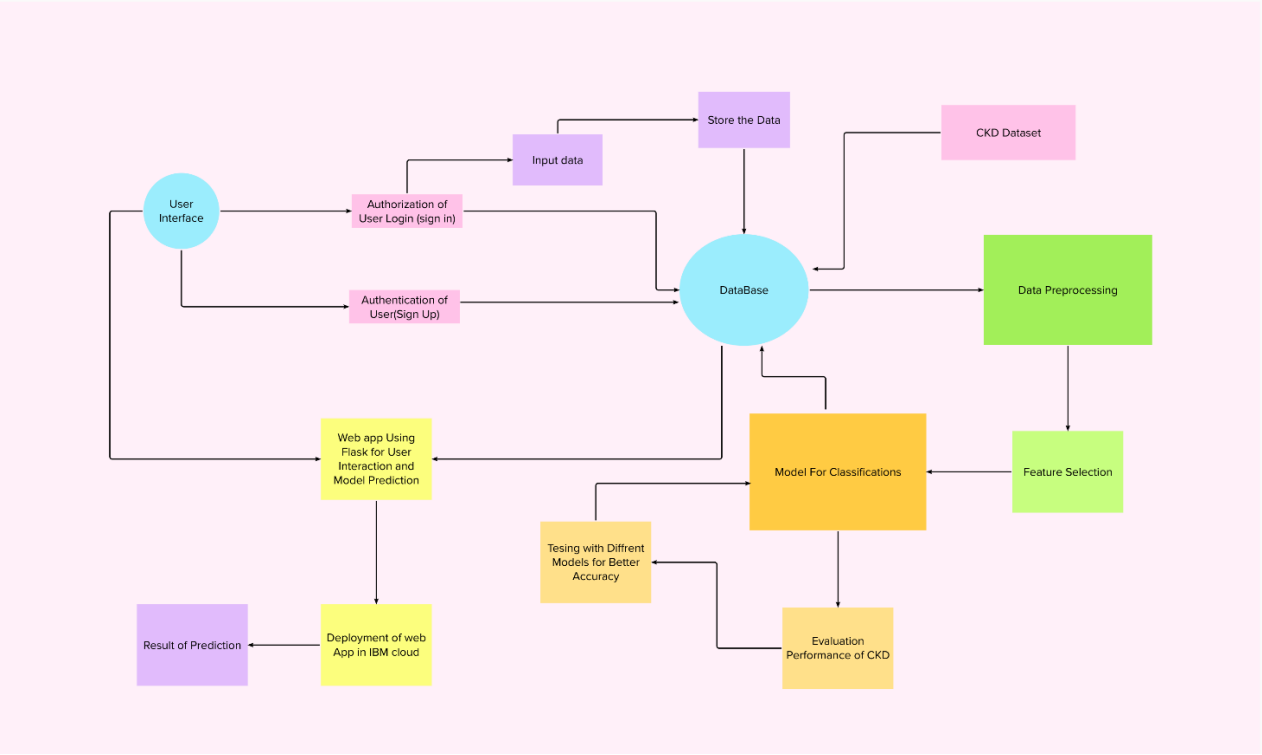
Project Design Phase-II
Data Flow Diagram & User Stories

Date	13 October 2022
Team ID	PNT2022TMID16583
Project Name	Early Detection of Chronic Kidney Disease Using Machine Learning
Maximum Marks	4 Marks

Data Flow Diagrams:



1. Obtaining Dataset from real time hospital or online resources.

2. Preprocessing the data such as handling missing values , removing outliers , categorical data ,standardizing the independent features.

3. Selecting the required features which impacts on prediction and as well as to avoid multicollinearity ,then splitting the data in accordance to testing and training data for model creation.

4. Creating the model and evaluating its performance then comparing the performance with other model to finally come up with the model having highest accuracy.

5. Creating a web application with flask framework to interact with the created model.

6. Deploying the model as well as the web application in IBM Cloud for the usage of user/subscriber.

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
	Verification	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
	Authorization	USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-1
	Dashboard	USN-4	As a user, I can navigate and interact with the web app to provide inputs for prediction and Testing	I am entitled to enter only valid input for prediction	High	Sprint-2
	Login	USN-5	User can use the application as a user at any time and from any location by using user login credentials	User can utilize my time & access the application	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer Care Executive	Assist	UNS-6	Collecting the issues and reports from the user through various method of communication	The report or issue must be valid and fully verified	High	Sprint-4
	Train Model	UNS-7	The Most Suitable ML Model For prediction of CKD	Efficiently Train The Model	High	Sprint-3
	Test Model	UNS-8	Test The Trained Model and Evaluate For Better Performance of Accurate Prediction	Evaluate The Model with Best Prediction	High	Sprint-3
Administrator	Manage	UNS-9	Management head controlling all the web services as well as assigning task to improve the service	Complete proper working of web service including security aspect	High	Sprint-4