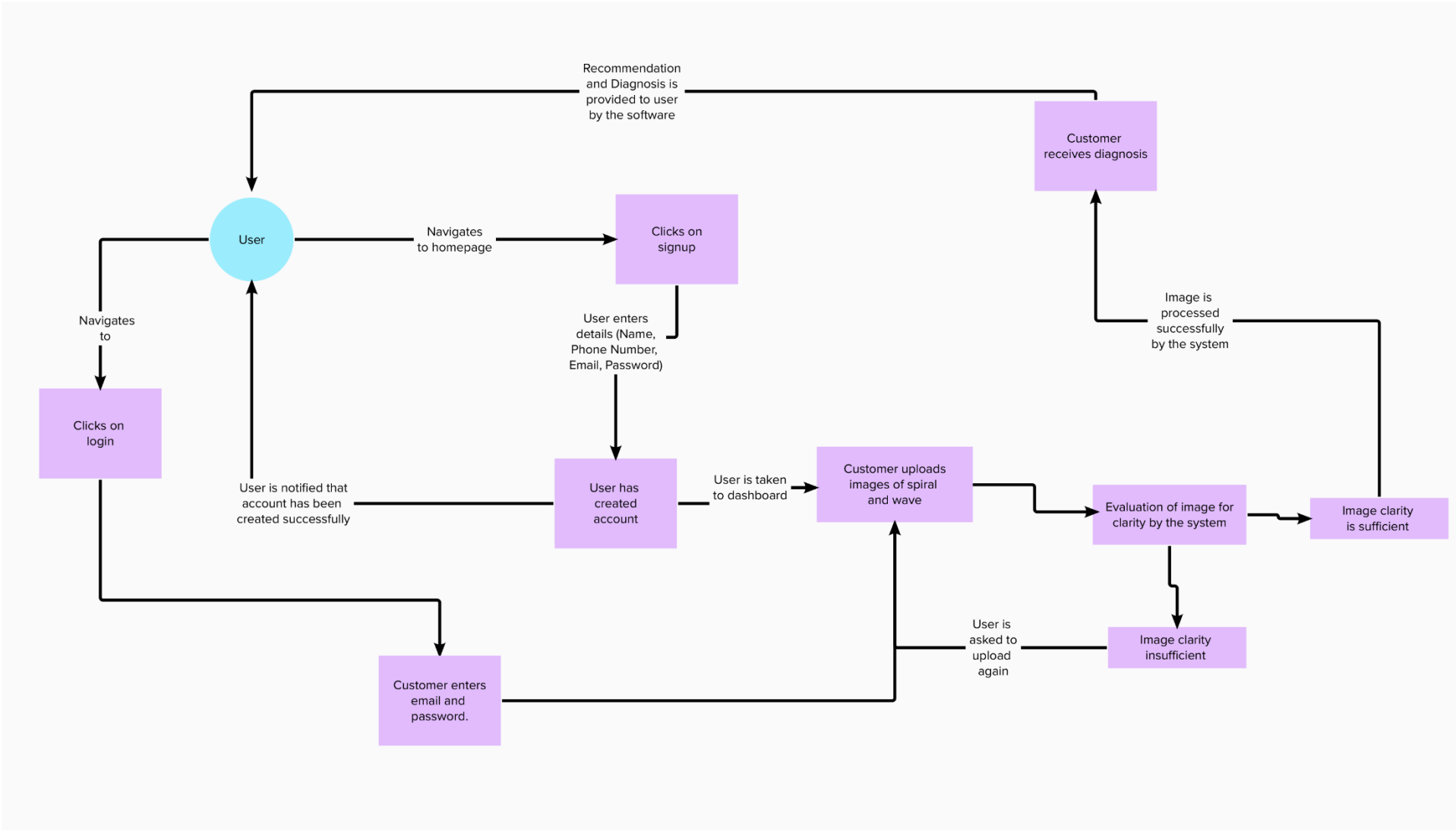
Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID08567
Project Name	Project - Detecting Parkinson's 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.


Recommendation and Diagnosis is provided to user by the software
Customer receives diagnosis
User
Navigates to homepage
Clicks on signup
Navigates to
User enters details (Name, Phone Number, Email, Password)
Image is processed successfully by the system
Clicks on login
User is notified that account has been created successfully
User has created account
User is taken to dashboard
Customer uploads images of spiral and wave
Evaluation of image for clarity by the system
Image clarity is sufficient
User is asked to upload again
Image clarity insufficient
Customer enters email and password.

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web user)	Viewing Home Page	USN-1	As a user, I can view the home page which has a description of the disease as well as options to sign up or log in.	I can get to know about the disease and its symptoms as well as navigate to sign up page and log in page from there.	Low	Sprint-1
	Sign Up Page	USN-2	As a user, I can register for the application by entering my name, phone number, email, password, and confirming my password.	I can login with my credentials.	High	Sprint-1
	Authorization	USN-3	As a user, I will receive confirmation email once I have registered for the application.	I can receive confirmation email & click confirm.	High	Sprint-2
	Login	USN-4	As a user, I can log into the application by entering email & password.	I can access my account / dashboard after logging in successfully.	High	Sprint-1
	Dashboard	USN-5	As a user, I can upload images of spiral and wave to the website in order to receive a diagnosis.	I can successfully access the dashboard to upload the images.	High	Sprint-2
	Results	USN-6	As a user, I can receive a diagnosis in addition to recommendations on what I should do now.	I can access the diagnosis and possible available solutions.	High	Sprint-3
Administrator	Data Collection	USN-7	I need to collect data (images of spirals and waves drawn by healthy people and Parkinson's patients).	I have sizable amount of data to split into training set and testing set.	High	Sprint-2
	Data Pre-Processing	USN-8	I need to clean my data and prepare it for model building by doing pre-processing activities such as resizing, converting from RGB to grayscale etc.	I have the dataset ready for model building.	High	Sprint-3
	Model Building	USN-9	I need to build the model using Random Forest Classifier for spiral images and K Nearest Neighbour (KNN) for wave images.	The model is ready for deployment on testing data.	High	Sprint-4
	Model Deployment	USN-10	I need to deploy the Machine Learning model that was built.	The model has been deployed successfully.	Medium	Sprint-5
	Application Building	USN-11	I need to build the website for the application using HTML, CSS etc.	The website is functional.	High	Sprint-3

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
	Linking Model and Application	USN-12	I can integrate the deployed model and web application using python flask server.	The web application is fully functional and can be used by the user.	High	Sprint-5