

**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	13th November 2023
Team ID	PNT2022TMIDxxxxxx Team-592951
Project Name	Car Purchase Price Prediction
Maximum Marks	4 Marks

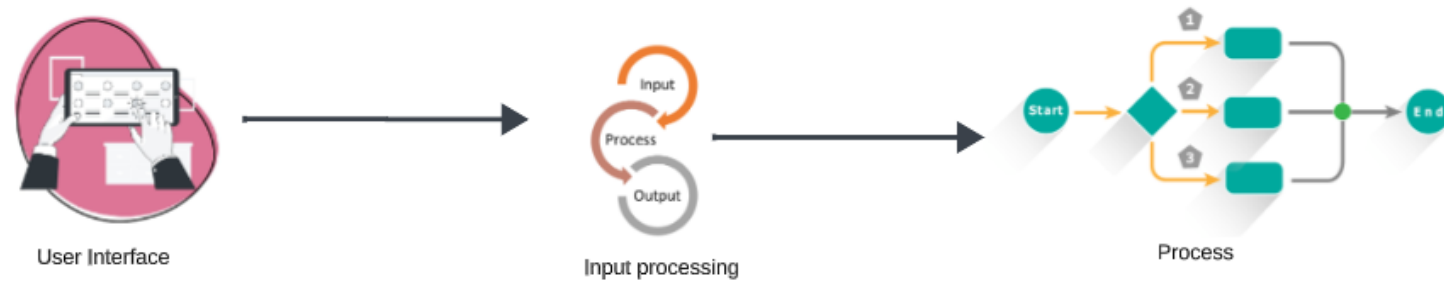
**Data Flow Diagrams:**

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.

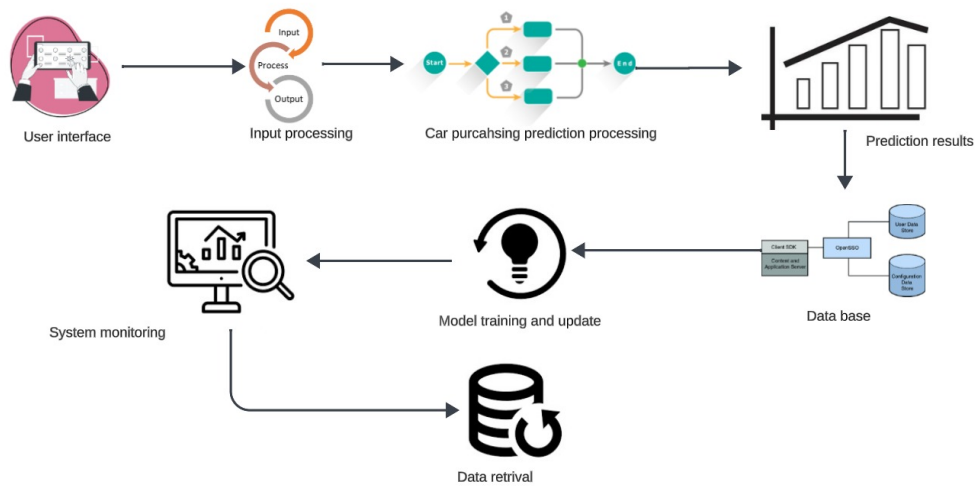
The process of Data Flow Diagram:

- 1) External users interact with the system through the user interface, providing their demographic data.
- 2) Handles the initial processing of user input, validating and formatting the data before passing it to the prediction process.
- 3) Integrates the machine learning model, takes preprocessed input data, and produces purchase likelihood predictions.
- 4) The results of the prediction are sent back to the user interface for display.
- 5) Stores and manages customer data securely.
- 6) Represents the backend activities involved in model training and updates based on new data.
- 7) Involves monitoring the system's performance, ensuring scalability, and handling any potential issues.
- 8) The system can retrieve relevant data from the database as needed for training or updating the machine learning model.

Data flow diagram (level 0):



Data flow diagram (level 1):



Reference link :

[https://lucid.app/lucidspark/ec0aebc7-7ba9-40a2-b0e3-59a4b9e86fd1/edit?viewport\\_loc=-698%2C35%2C3211%2C1616%2C0\\_0&invitationId=inv\\_a0e7f616-3ebd-4079-9927-ebe3eb0ba912](https://lucid.app/lucidspark/ec0aebc7-7ba9-40a2-b0e3-59a4b9e86fd1/edit?viewport_loc=-698%2C35%2C3211%2C1616%2C0_0&invitationId=inv_a0e7f616-3ebd-4079-9927-ebe3eb0ba912)

## User Stories

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

User Type	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 should be able to access my account/dashboard after successful registration.	High	Sprint-1
	USN-2	As a user, I will receive a confirmation email once I have registered for the application.	I should be able to access my account/dashboard after successful registration. I can receive the confirmation email and click to confirm my registration.	High	Sprint-1

	USN-3	As a user, I can register for the application through Facebook.	I can register and access the dashboard with Facebook login	Low	Sprint-2
	USN-4	As a user, I can register for the application through Gmail.	I can register and access the dashboard with Gmail login.	Medium	Sprint-1
Customer (Mobile User) - Login	USN-5	As a user, I can log into the application by entering email and password.	I should be able to access my dashboard after successful login.	High	Sprint-1
Dashboard	USN-6	As a user, I can view personalized recommendations on my dashboard based on my historical purchase patterns.	Relevant recommendations should be displayed.	Medium	Sprint-2
Customer Care Executive	USN-7	As a Customer Care Executive, I can access a customer's purchase likelihood information based on their provided data.	The system should provide accurate purchase likelihood predictions.	High	Sprint-3
Administrator	USN-8	As an Administrator, I can view and manage user accounts, ensuring the security and integrity of the system.	The administrator should have access to user account information and the ability to manage accounts.	High	Sprint-3