Project Design Phase-II
Data Flow Diagram & User Stories

Date	5 November 2023
Team ID	Team-592881
Project Name	Disease Prediction Using Machine Learning
Maximum Marks	4 Marks

Data Flow Diagram:

Data flow In Disease Prediction Algorithm
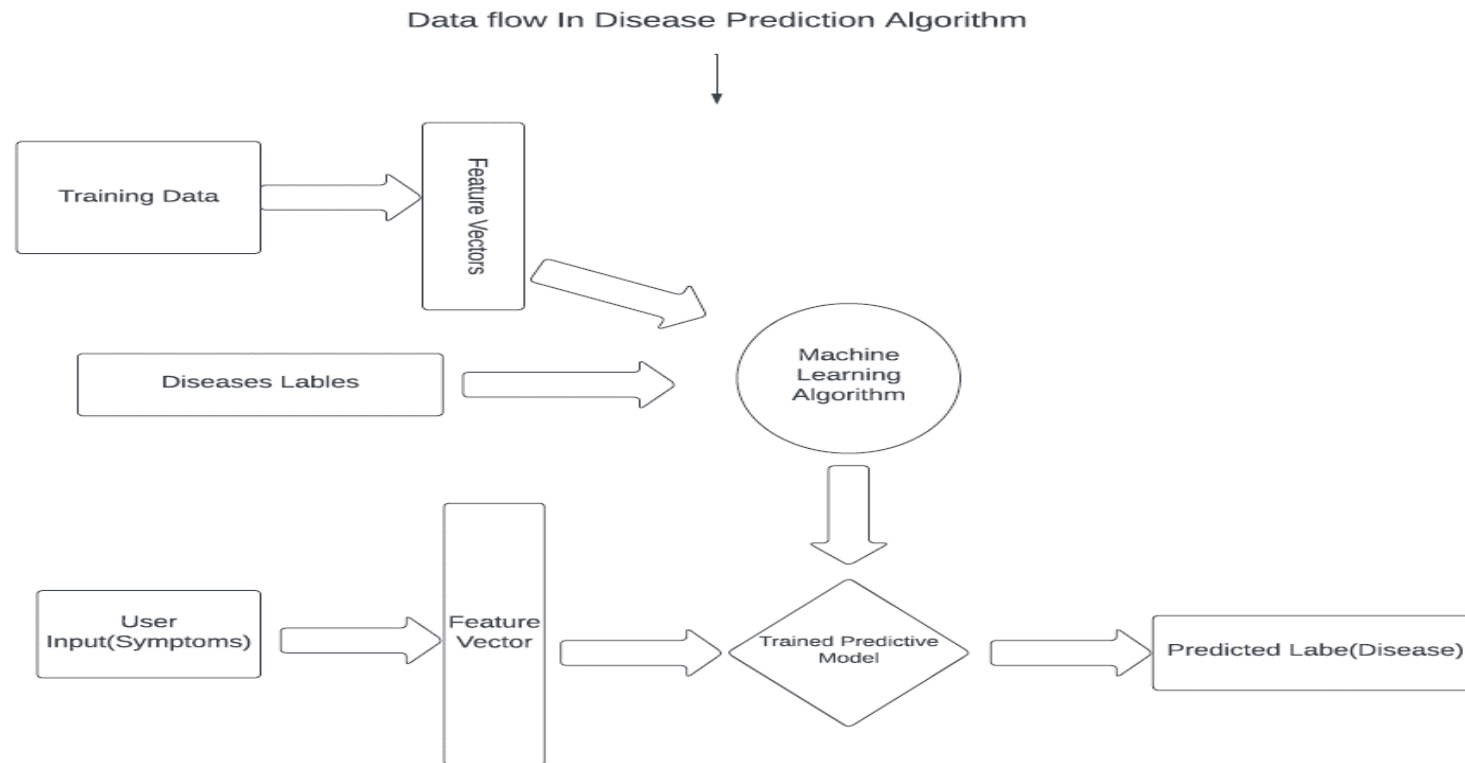
Data Flow:

1. Users enter their symptoms through the user interface.

2. Validate and sanitize user inputs to ensure they meet required standards.

3. Send the validated symptoms data to the backend system.

4. Preprocess the input data to handle missing values or any formatting issues.

5. Extract relevant features (symptoms) from the pre-processed data.

6. Input the extracted features into the trained machine learning model for disease prediction.

7. Receive the predicted disease output from the machine learning model.

8. Show the predicted disease to the user through the interface.

9. Log user inputs, predictions, and system events for monitoring and analysis.

10. Collect feedback from users to improve the model and system.

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Patient (Personal user)	Diagnosis	USN-1	As a patient, I want to be able to enter my symptoms into the disease prediction system so that it can predict the diseases I may have.	I can enter my symptoms into the system and receive a list of predicted diseases.	High	Sprint-1
Doctor (Commercial User)	Diagnosis	USN-2	As a doctor, I want to be able to use the disease prediction system to help me diagnose my patients.	I can enter my patient's symptoms into the system and receive a list of predicted diseases.	High	Sprint-1
Researcher	Research	USN-3	As a researcher, I want to be able to use the disease prediction system to conduct research on new diseases and treatments	I can access the system's data and machine learning models to conduct research.	Low	Sprint-3
Administrator	System Management	USN-4	As an administrator, I want to be able to manage the disease prediction system, including adding and removing users, managing permissions, and monitoring system performance.	I can add and remove users, manage permissions, and monitor system performance	High	Sprint-1