Project Design Phase-II
Data Flow Diagram & User Stories

Date	23 October 2023
Team ID	Team - 592529
Project Name	Project - Disease Prediction Using Machine Learning
Maximum Marks	4 Marks

Data Flow Diagram
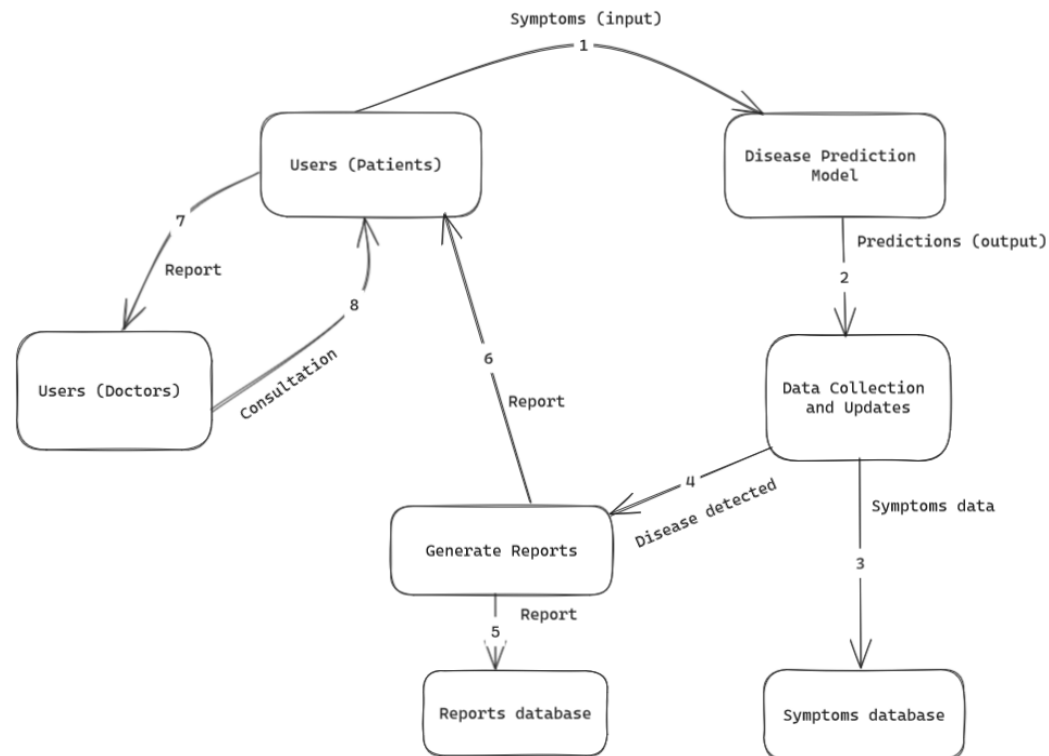
1. **Users (Patients):** Patients input symptoms for the disease prediction model.
2. **Disease Prediction Model:** The core of the system, which predicts diseases based on the symptoms.
3. **Data Collection and Updates:** Stores historical symptom data in the symptoms database for training and updating the model.
4. **Reporting:** Generates reports based on predictions of disease(s) detected.
5. **Reports storage:** Stores the generated reports in the Reports database.
6. **Display Report:** The user (patient) can access their report for preventive diagnosis and self care.
7. **Users (Doctors):** Patients can choose to share their report with a Doctor for consultation.
8. **Consultation:** Online consultations between doctors and patients.

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Patient	Quick Symptom Check	USN - 1	Input symptoms, receive disease prediction	Users can input symptoms without providing personal information.	High	Sprint - 1
				The model provides a probable disease based on the input symptoms.		
				The system is accessible 24x7 for symptom checks.		
				Users can easily decide whether to visit a doctor based on the prediction.		
Healthcare Professionals	Efficient online consultations	USN - 2	Utilize the model for online consultations	The model's predictions assist in providing more informed advice to patients.	High	Sprint - 1
				Online consultations are conducted efficiently.		
				The model provides a list of possible diseases, not a definitive diagnosis.		
Developers / Administrators	User-friendly and secure application	USN - 3	Develop and maintain the web application	The application is easy to use and navigate.	Medium	Sprint - 2

				The application is secure and protects user privacy.		
				Regular monitoring and updates are in place to ensure accuracy.		
All Users	Accurate and transparent predictions	USN - 4	Input symptoms and receive explanations	The application provides clear explanations of the likelihood of each disease.	High	Sprint - 2
				The application suggests seeking professional medical attention for certain predictions.		
				No personal information is collected or required during symptom input.		
	Easily accessible on various devices	USN - 5	Use the application on different devices	The application is responsive and works well on various devices (PC, mobile, tablet).	Low	Sprint - 3
				Users can access the application from anywhere with an Internet connection.		
	Consult with Healthcare professionals	USN - 6	Seek a professional consultation	Users have the option to contact a healthcare professional for more personalized guidance.	High	Sprint - 2