Project design phase-2 Data Flow diagram & user stories

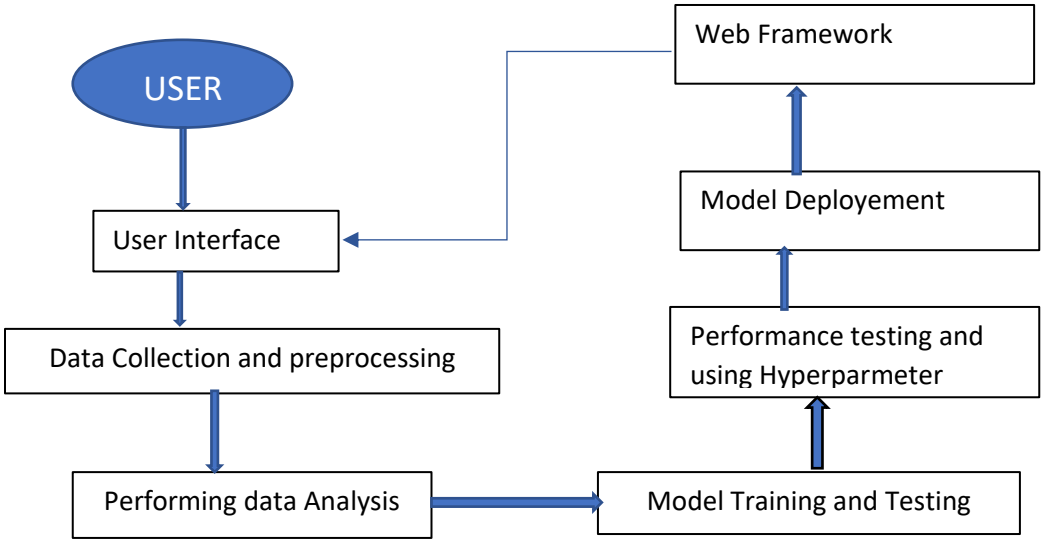
Date	4th November 2023
Team ID	Team-592083
Project Name	Disease Prediction Using Machine Learning
Maximum Marks	4 Marks

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.

Data Flow Diagram of Disease Prediction Using Machine Learning

A Data Flow Diagram (DFD) is a visual representation of how data flows within a system. In the context of disease prediction using machine learning, the DFD can help illustrate how data is collected, processed, and used to make predictions. Here's a high-level DFD for a disease prediction system



User stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Patient	Disease Risk Assessment	1	As a patient, I want to provide my medical history and current symptoms to receive personalized disease risk assessments and recommendations for preventive measures.	- The system accepts patient input for medical history and symptoms. - The system calculates disease risk scores based on input. - The system provides recommendations for preventive measures.	High	1.0
Healthcare Provider	Diagnosis Support	2	As a healthcare provider, I want to input a patient's medical data to obtain disease predictions that can aid in diagnosis and treatment planning.	- The system accepts medical data input. - The system generates disease predictions. - The system offers explanations for prediction results.	High	1.0
Researcher	Data Analysis	3	As a researcher, I want to use the system to analyze large datasets of medical records to identify correlations and potential risk factors for specific diseases.	- The system provides access to large medical datasets. - The system offers data analysis tools. - The system allows for correlation analysis.	High	1.1

Public Health Official	Disease Monitoring	4	As a public health official, I want to monitor disease trends and potential outbreaks using the system to facilitate timely interventions and resource allocation.	- The system provides real-time disease trend data. - The system sends alerts for potential outbreaks. - The system supports resource allocation recommendations.	Medium	1.1
Caregiver	Health Alerts	5	As a caregiver, I want to receive alerts or notifications if a family member's health data suggests an increased risk of a specific disease, enabling early intervention.	The system allows caregivers to set up health alerts. - The system sends notifications for increased disease risk. - The system offers guidance for early intervention.	Medium	1.2
Healthcare Institution	Integration	6	As a healthcare institution, I want to integrate the disease prediction system into our electronic health record (EHR) system to streamline the diagnostic process.	- The system integrates with the EHR system. - Patient data flows seamlessly between systems. - The diagnostic process is improved.	High	1.2
Patient	Health Tracking	7	As a patient, I want to view a user-friendly dashboard that presents my disease risk scores over time, helping me track my health status.	- The system provides a user-friendly dashboard. - Disease risk scores are displayed over time. - The dashboard supports health tracking.	Medium	1.3