Project Design Phase-II
Data Flow Diagram & User Stories

Date	28 June 2025
Team ID	**LTVIP2025TMID41166**
Project Name	Revolutionizing Liver Care: Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques
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.
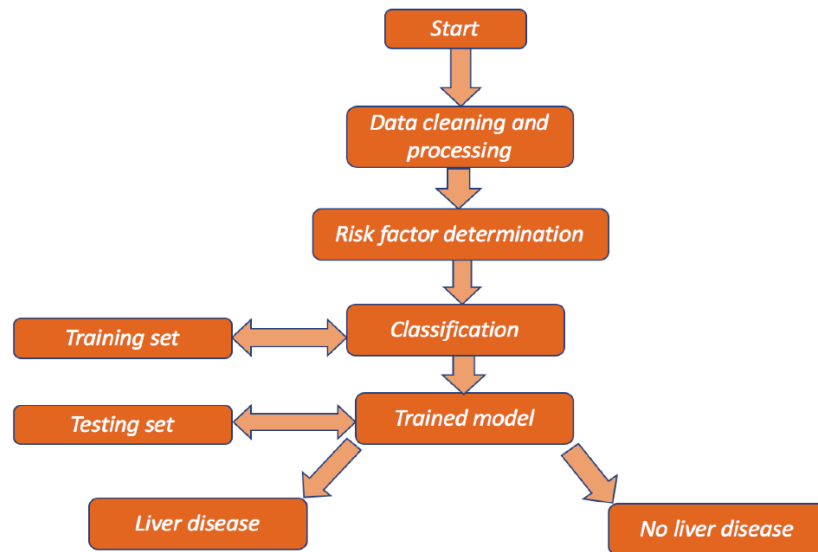
In this project, the doctor uses a web page to enter patient information and test results.

- The information goes from the web page to the backend of the system.

- The backend loads the machine learning model and processes the data.

- The model predicts whether the patient might have liver cirrhosis.

- The result is sent back and shown to the doctor on the web page.

In simple terms:

Doctor → Web Page → Backend → ML Model → Backend → Web Page → Doctor

Example:

User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Doctor (Web User)	Enter Patient Data	USN-1	As a doctor, I want to enter patient test results into the website.	The website lets me type in details and saves the data.	High	Sprint-1
Doctor (Web User)	See Prediction Results	USN-2	As a doctor, I want to see if a patient might have liver cirrhosis.	The system shows me a clear result, like "High Risk" or "Low Risk."	High	Sprint-1
Doctor (Web User)	Understand Prediction	USN-3	As a doctor, I want to know which tests were most important in the prediction.	The system shows me a simple list of top factors that affected the result.	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	Manage ML Model	USN-4	As an admin, I want to update the ML model if a better version is available.	I can upload a new model, and it works correctly in the system.	Medium	Sprint-2
Administrator	View Activity Logs	USN-5	As an admin, I want to check who used the system and when.	I can see logs and download them as a file.	Low	Sprint-3
Patient (Indirect)	Privacy and Security	USN-6	As a patient, I want my medical details to stay private and safe.	My information is kept secure, and nothing is saved permanently without consent.	High	Sprint