# Project Design Phase-II

# Data Flow Diagram & User Stories
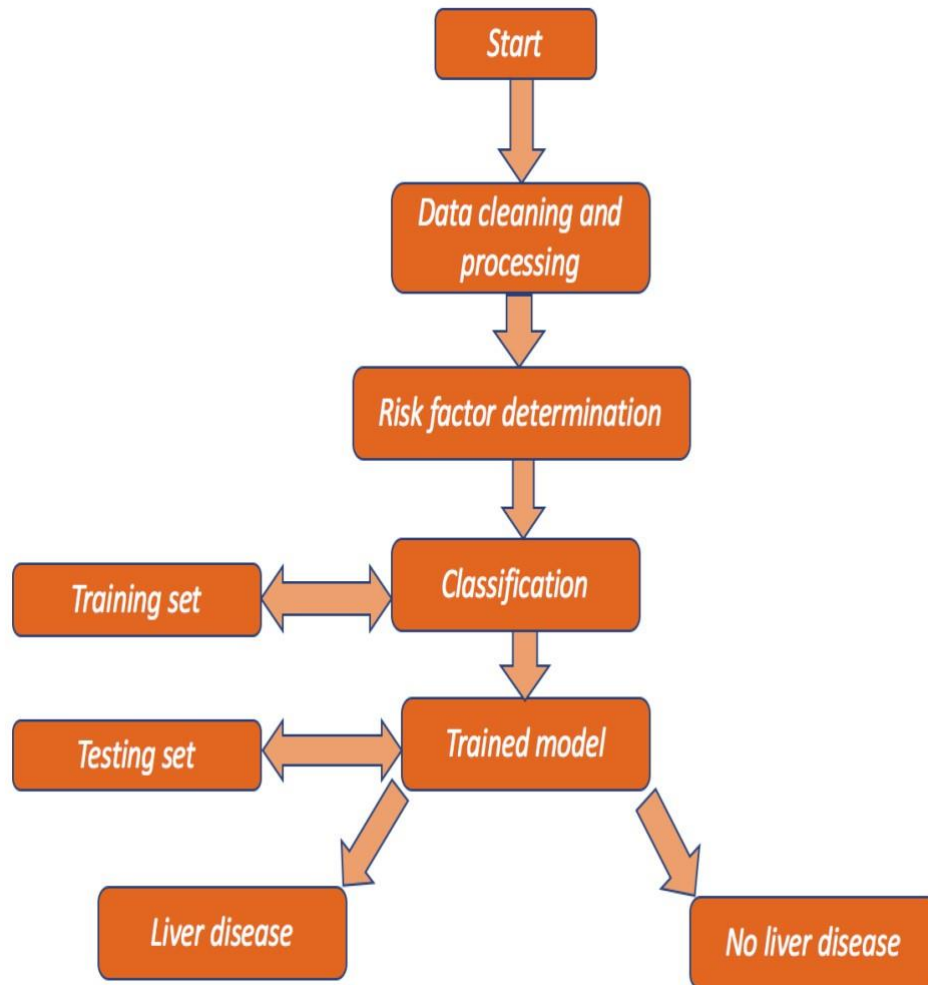
| Date | 26 June 2025 |
|---|---|
| Team ID | LTVIP2025TMID60884 |
| Project Name | Revolutionizing Liver Care: Predicting Liver cirrhosis using Advanced Machine Learning Techniques. |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

**Revolutionizing Liver Care**

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.

**Example:**

```
                    ┌─────────────┐
                    │    Start    │
                    └──────┬──────┘
                           ↓
               ┌────────────────────┐
               │ Data cleaning and  │
               │    processing      │
               └──────────┬─────────┘
                          ↓
           ┌──────────────────────────┐
           │ Risk factor determination│
           └────────────┬─────────────┘
                        ↓
  ┌──────────────┐   ┌───────────────┐
  │ Training set │←→│ Classification │
  └──────────────┘   └───────┬───────┘
                             ↓
  ┌──────────────┐   ┌───────────────┐
  │ Testing set  │←→│ Trained model  │
  └──────────────┘   └──┬─────────┬──┘
                        ↓         ↓
          ┌──────────────┐   ┌─────────────────┐
          │ Liver disease│   │ No liver disease│
          └──────────────┘   └─────────────────┘
```

**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 | Sprint |
|---|---|---|---|---|---|---|
| | | | | | | |
| Patient (Mobile User) | Registration | US-1 | As a patient, I can register by entering my name, email, password, and confirming it | User can register and login successfully | High | Sprint -1 |
| Patient | Report submission | US-2 | As a patient, I want to upload my liver function reports, so that the system can analyze them. | System accepts reports and confirms successful upload. | High | Sprint-1 |
| Patient | AI prediction | US-3 | As a patient, I want to view liver disease predictions based on my report, so I understand risks. | AI results are within second upload. | High | Sprint -2 |
| Doctor | Review patient data | US-4 | As a doctor, i want to see a patients test reports and system predictions to provide treatment. | Doctor Dashboard displays all nessessary details. | High | Sprint -2 |
| Doctor | Send recommendations | US-5 | As a doctor,I want to send recommendations to patients, so they get proper guidance. | Patient receives notification and sees updated status in their dashboard. | Medium | Sprint -3 |
| Admin | Monitor system usage | US-6 | As an admin, I want to monitor active users and system health for maintenance. | Admin panel displays real time metrics. | High | Sprint -4 |
| Patient | Health tracking | US-7 | As a patient, I want to track my liver health over time through charts and summaries. | Historical Data and trends visible in profile. | Medium | Sprint-3 |
| Doctor | Add/Edit patient plan | US-8 | As a doctor, I want to update the patient's treatment plan based on latest results | System allows you updats to treatment records. | High | Sprint-3 |