

Project Design Phase-II

Data Flow Diagram & User Stories

Team ID	LTVIP2026TMIDS87645
Project Name	Prosperity Prognosticator
Maximum Marks	4 Marks

Data Flow Diagrams:

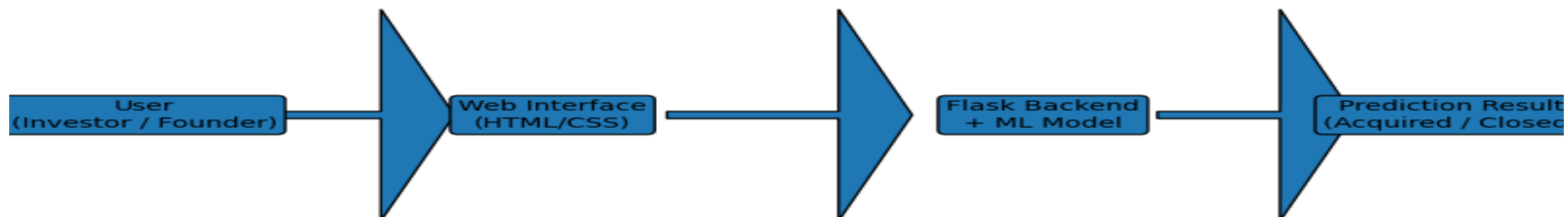
A Data Flow Diagram (DFD) is a graphical representation that illustrates the flow of data within a system. It shows how data enters the system, how it is processed, stored, and finally how output is generated. DFDs help in understanding the overall system functionality and interaction between different components.

In the **Prosperity Prognosticator** system, the DFD represents how startup details entered by the user are processed by the backend and machine learning model to generate a prediction result.

1. The **User (Investor/Startup Founder)** enters startup-related details through the web interface.
2. The **Web Interface (HTML/CSS)** sends the input data to the Flask backend.
3. The **Flask Backend** processes the input and forwards it to the trained Machine Learning model.
4. The **Machine Learning Model (Random Forest)** analyzes the data and predicts the startup outcome.

The **Prediction Result** (Acquired or Closed) is sent back and displayed to the user.

Data Flow Diagram – Prosperity Prognosticator



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
Customer (Web User)	Registration	USN-1	As a user, I can register for the application by entering my email and password	User account is successfully created	High	Sprint-1
Customer (Web User)	Login	USN-2	As a user, I can log into the application using my credentials	User is redirected to dashboard	High	Sprint-1
Customer (Web User)	Data Input	USN-3	As a user, I can enter startup details such as funding, milestones, and location	System accepts valid input	High	Sprint-1
Customer (Web User)	Prediction	USN-4	As a user, I can submit startup data to get prediction results	Prediction is displayed correctly	High	Sprint-1
Customer (Web User)	Result View	USN-5	As a user, I can view whether the startup is acquired or closed	Clear result shown	Medium	Sprint-2
Administrator	Model Management	USN-6	As an admin, I can update or retrain the ML model	Model is updated successfully	Medium	Sprint-2