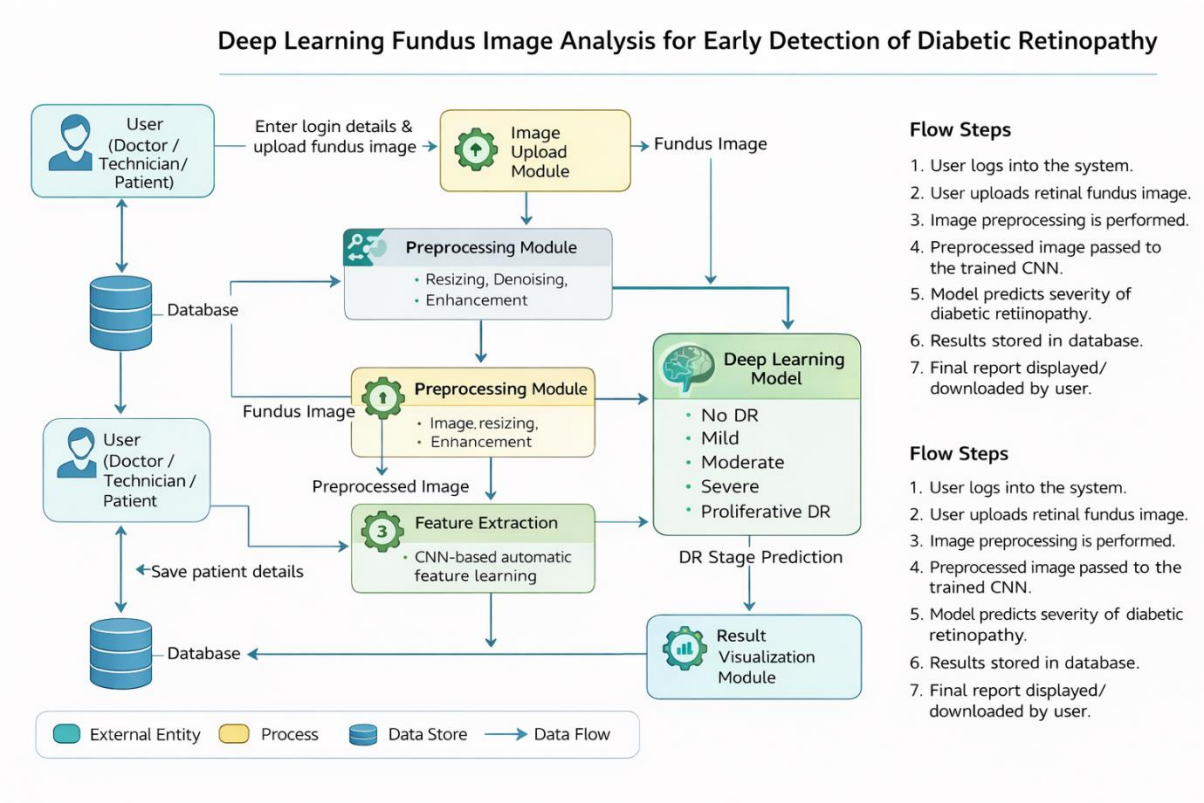
Project Design Phase-II
Data Flow Diagram & User Stories

Date	19 feb 2026
Team ID	LTVIP2026TMIDS65645
Project Name	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) represents how data moves through the diabetic retinopathy detection system. It illustrates how retinal fundus images are uploaded, processed using deep learning models, analyzed for abnormalities, and how results are stored and displayed to users.

Example: (Simplified)



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Doctor	Registration	USN-1	As a doctor, I can register using email and password	Account created successfully	High	Sprint-1
Doctor	Login	USN-2	As a doctor, I can login securely	Valid credentials allow dashboard access	High	Sprint-1
Doctor	Image Upload	USN-3	As a doctor, I can upload fundus images	System accepts JPG/PNG and confirms upload	High	Sprint-1
Doctor	DR Prediction	USN-4	As a doctor, I can analyze uploaded image	System shows DR stage with confidence score	High	Sprint-2
Doctor	Report Generation	USN-5	As a doctor, I can download patient report	PDF report generated successfully	Medium	Sprint-2
Admin	Dataset Management	USN-6	As an admin, I can manage training dataset	Admin can upload/delete dataset	Medium	Sprint-3
Admin	Model Training	USN-7	As an admin, I can retrain the model	Model updates with new accuracy metrics	Medium	Sprint-3
Patient	View Results	USN-8	As a patient, I can view my diagnosis	Patient can access results securely	Low	Sprint-3