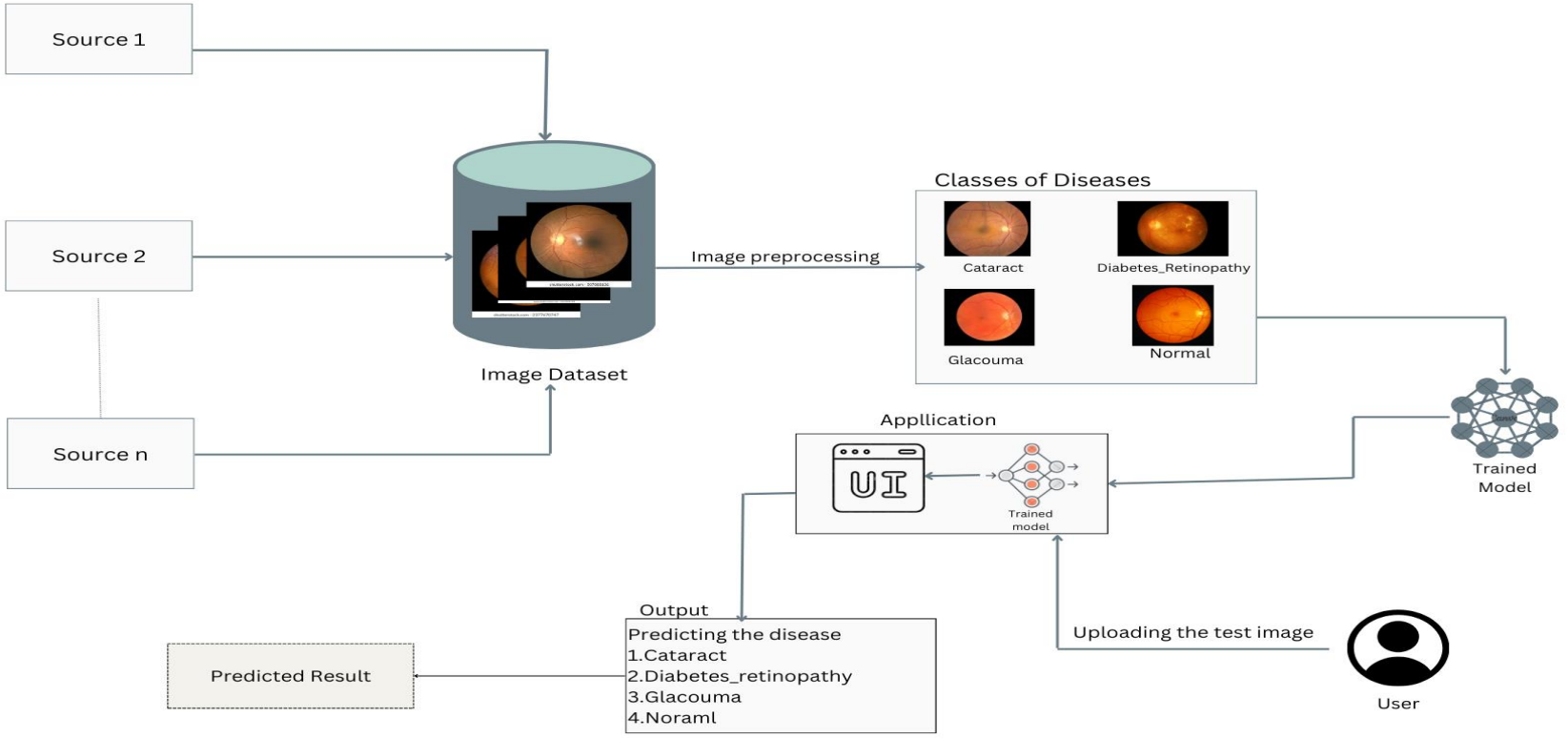
Project Design Phase-II
Data Flow Diagram & User Stories

Date	6-10-2023
Project Name	Deep Learning Model for Eye Disease Prediction
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.



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Eye specialized doctors and professors	Project setup & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to predict the eye disease.	successfully configured with all necessary tools and frameworks	High	Sprint 1
Worldwide laboratories reports	development environment	USN-2	Gather a diverse dataset of images containing different types of eye diseases for training the deep learning model.	Gathered a diverse dataset of images depicting various types of diseases	High	Sprint 1
Households and Individuals	Data collection	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel values, and splitting it into training and validation sets.	preprocessed the dataset	High	Sprint 2
Researchers and Academics	data preprocessing	USN-4	Explore and evaluate different deep learning architectures (e.g., CNNs, Transfer Learning) to select the most suitable model for eye disease prediction.	we could explore various DL models	High	Sprint 2
Non-Governmental Organizations (NGOs)	model development	USN-5	train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	we could do validation	High	Sprint 3
Educational Institutions	Training	USN-6	implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	we could do testing	medium	Sprint 3
	model deployment & Integration	USN-7	deploy the trained deep learning model as an API or web service to make it accessible for common people. integrate the model's API into a user-friendly web interface for users to upload images and get the accurate results.	we could check the scalability	medium	Sprint 4
	Testing & quality assurance	USN-8	conduct thorough testing of the model and web interface to identify and report any issues or bugs. fine-tune the model hyperparameters and optimize its performance based on user feedback and testing results.	we could create web application	medium	Sprint 5