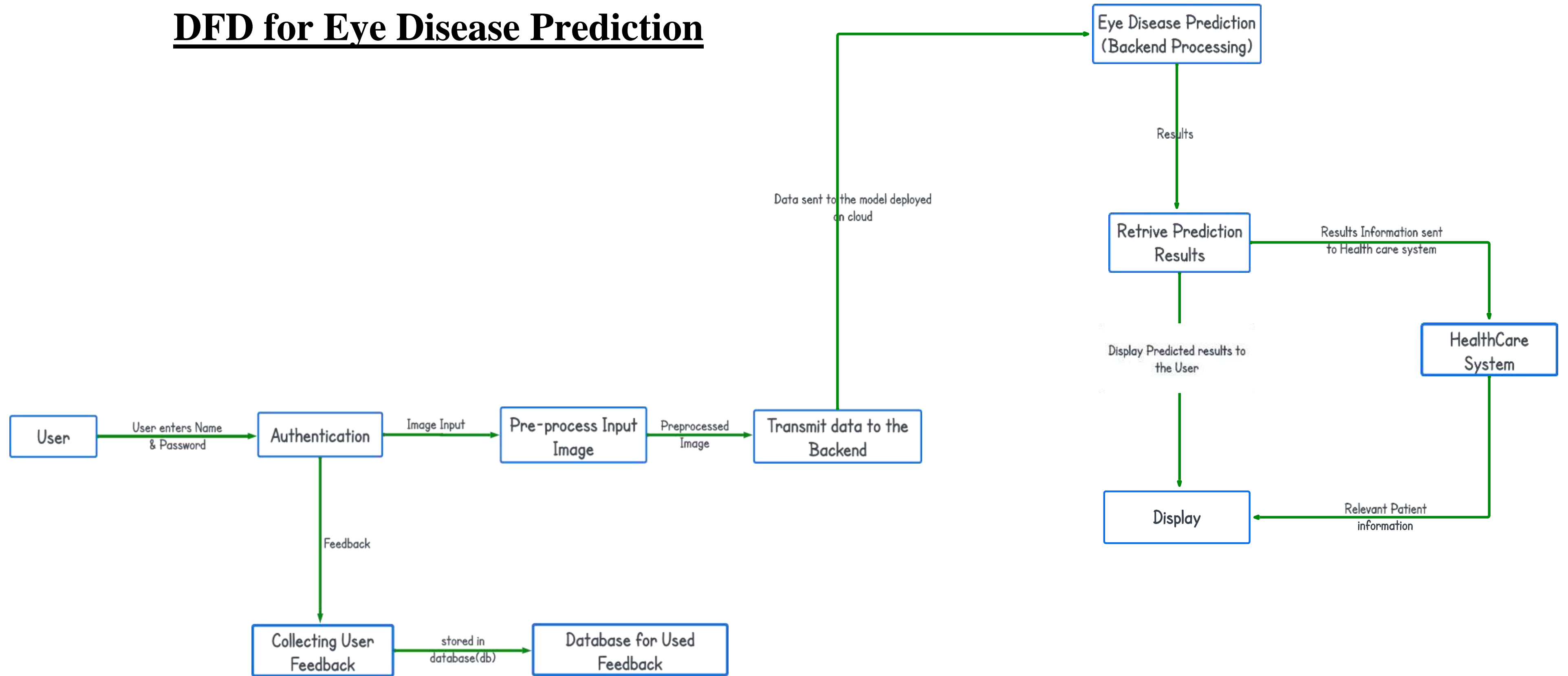


DFD for Eye Disease Prediction



Data Flow:

- 1.** User interacts via Web Browser
- 2.** Request processed by Flask Web App (Frontend)
- 3.** Frontend sends image to Inference module
- 4.** Inference module loads and processes image
- 5.** Processed image input to Transfer Learning Model
- 6.** Model predicts disease probability and classification
- 7.** Results sent back to Frontend for display
- 8.** User can provide feedback through the User Interface
- 9.** Feedback stored in User Feedback Database
- 10.** Integration with Healthcare Systems for timely alerts.

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Patients	Login	USN-1	As a patient, I want to register an account to access the eye disease prediction system.	The patient should be able to successfully create an account using valid personal information.	High	Sprint-1
	Image Uploadation	USN-2	As a patient, I want to upload eye images for analysis.	The system should allow the patient to upload eye images in common formats (e.g., JPEG, PNG).	High	Sprint-2
	Eye Health Monitoring	USN-3	As a patient, I want to view the prediction results and understand the likelihood of having an eye disease.	the patient should be able to view a clear and understandable prediction report indicating the likelihood of having an eye disease, with relevant details and explanations provided for transparency.	Medium	Sprint-2
Ophthalmologists and Eye Care Professionals	Login	USN-1	As a doctor, I want to log in to the system to access patient data securely.	The system should authenticate the doctor's credentials securely, granting access only to authorized personnel	High	Sprint-1

	Treatment Planning	USN-2	As a doctor, I want to review patient history and eye images for diagnosis.	The system should present a well-organized patient history, including relevant medical information.	Medium	Sprint-2
AI/ML Developers	Model Development	USN-3	Improving Machine Learning Model for Eye Disease Prediction.	The ML developer should be able to access the model's source code, implement enhancements, and validate the changes through testing.	Medium	Sprint-3