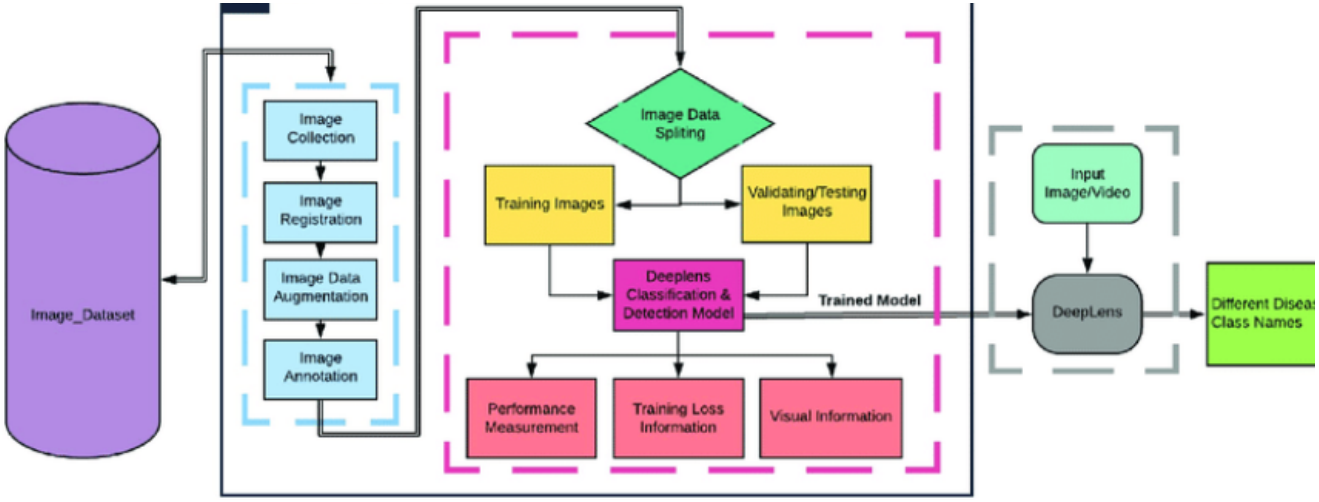
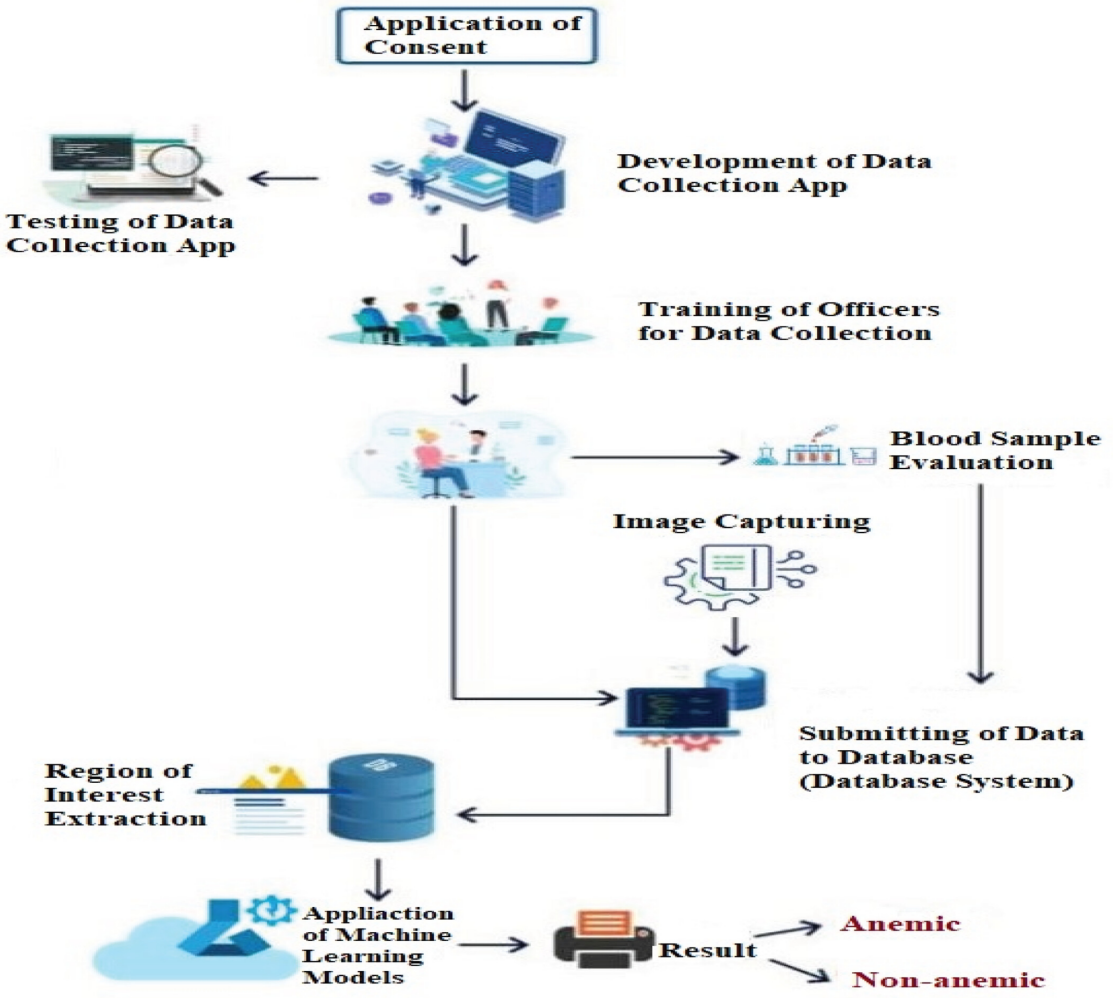
Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	592871
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.





This image shows the workflow of a proposed solution to a similar problem which requires analysis of blood sample images to predict between anemic or non anemic samples.

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
Patient	AI-Based Eye Disease Classification System	USN-1	As a patient, I want to receive an accurate diagnosis of my eye disease through the AI-based system.	The AI system provides a clear and understandable diagnosis.	High	Sprint-1
Pediatric Patient	Eye Disease Classification System	USN-2	As a parent of a pediatric patient, I want the AI system to provide a child-friendly experience for my child's eye examination.	The imaging process is designed to be quick and minimally invasive for pediatric patients.	High	Sprint-1
Elderly Patient	Eye Disease Classification System	USN-3	As an elderly patient, I want the AI system to accommodate potential mobility and technological literacy challenges.	● The system provides clear and simple instructions for the imaging process. ● Large font sizes and high contrast visuals are used in the user interface. ● The AI-generated diagnosis is presented in an easy-to-understand format. ● Support is available for patients who may need assistance navigating the system.	High	Sprint-2

Healthcare Provider	Service Provider	USN-4	As an ophthalmologist, I want to efficiently integrate AI-based eye disease classifications into my practice for improved patient care.	• The AI system seamlessly integrates with existing electronic health record (EHR) systems. • I can access and interpret the AI-generated reports alongside traditional diagnostic tools. • The system provides clear explanations for AI-generated diagnoses. • It supports collaboration with other healthcare professionals for multidisciplinary care.	Medium	Sprint-1
Data Scientist	Model Development	USN-5	As a data scientist, I want to enhance the deep learning model's accuracy through continuous improvement.	• Access to a diverse and representative dataset for model training. • Integration with transfer learning techniques for model refinement. • Regular model updates based on new research findings and emerging technologies.	High	Sprint-2
System Administrator	Administration	USN-6	As a system administrator, I want to ensure the security and stability of the AI-based system.	• Implementation of robust cybersecurity measures to protect patient data. • Regular system maintenance and updates to address potential vulnerabilities.	Medium	Sprint-2