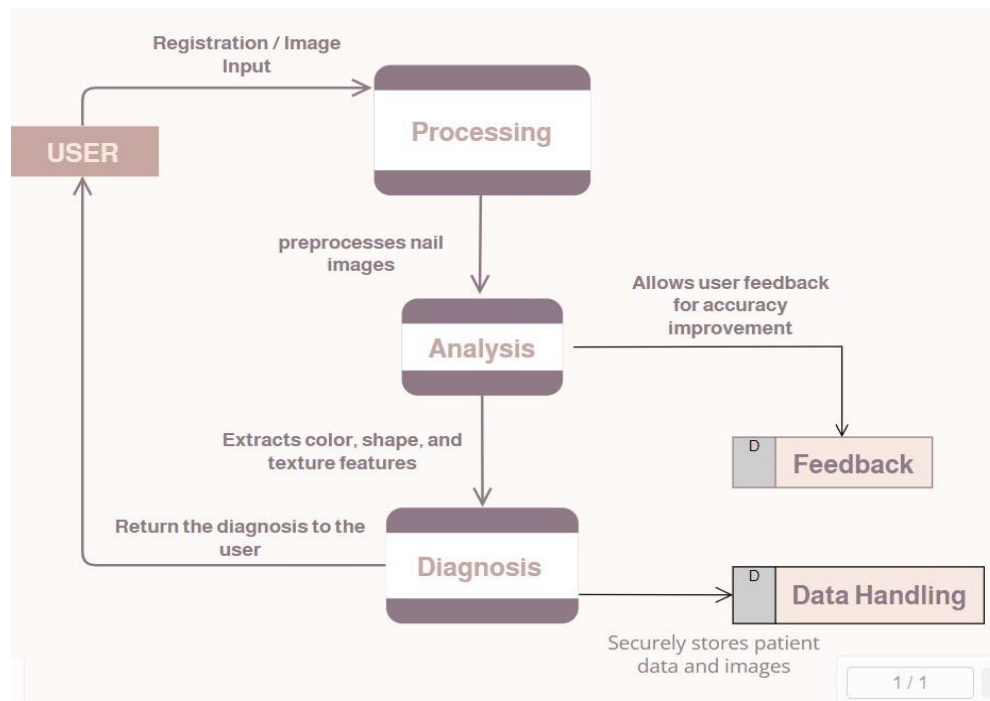


Project Design Phase-II Data Flow Diagram & User Stories

Date	23 October 2023
Team ID	Team-592806
Project Name	Early Diagnosis Of Diseases Using Image Processing Of Human Nails
Maximum Marks	4 Marks

Data Flow Diagram:



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	Users can register with a valid email address and password. Passwords must meet security standards. The system securely stores user credentials.	USN1	As a patient, I want to be able to capture images of my nails using the web application.	The web application provides a user-friendly interface for capturing nail images.	High	Sprint 1
Patient, Healthcare Professional	The web application provides a user-friendly interface for capturing nail images. Captured images are securely stored and associated with the user's profile. Users can review and manage their captured nail images.	USN2	As a user, I want to upload the nail picture in order to predict the disease if any.	Users can register with a valid email address and password. The captured images are stored securely and associated with the user's profile.	High	Sprint 1
AI Model System	The system processes nail images to extract color, shape, and texture features. Extracted features are stored for analysis and reference. The system applies image enhancement techniques for better feature extraction.	USN3	As the system, I need to process the uploaded nail images and extract relevant features.	The system processes nail images to extract color, shape, and texture features. Extracted features are stored for analysis.	Medium	Sprint 2

Model (VGG16)	<p>The machine learning model is integrated into the system for image analysis.</p> <p>The model predicts nail diseases and their types based on extracted features.</p> <p>The model's accuracy is regularly monitored and improved.</p>	USN4	As the system, I need to integrate a machine learning model for nail disease prediction.	<p>The machine learning model is integrated into the system for image analysis.</p> <p>The model accurately predicts nail diseases and their types.</p>	Medium	Sprint 3
Patient, Healthcare Professional Diagnosis	<p>Users can view the results of nail disease prediction for their uploaded images.</p> <p>The results are presented in a user-friendly format.</p>	USN5	As a user, I want to view the diagnostic results of nail images.	Users can see the results of nail disease prediction, including disease type (if any) and recommendations.	High	Sprint 2
Database System	<p>User data, including nail images and diagnostic results, are stored securely in a database.</p> <p>Data is easily retrievable and associated with the respective user's profile.</p>	USN6	As the system, I need to set up a database to store user data and nail images.	<p>User data, including nail images and diagnostic results, are stored securely in a database.</p> <p>Data is easily retrievable and associated with the respective user.</p>	Medium	Sprint 1