# Project Design Phase-II
# Data Flow Diagram & User Stories

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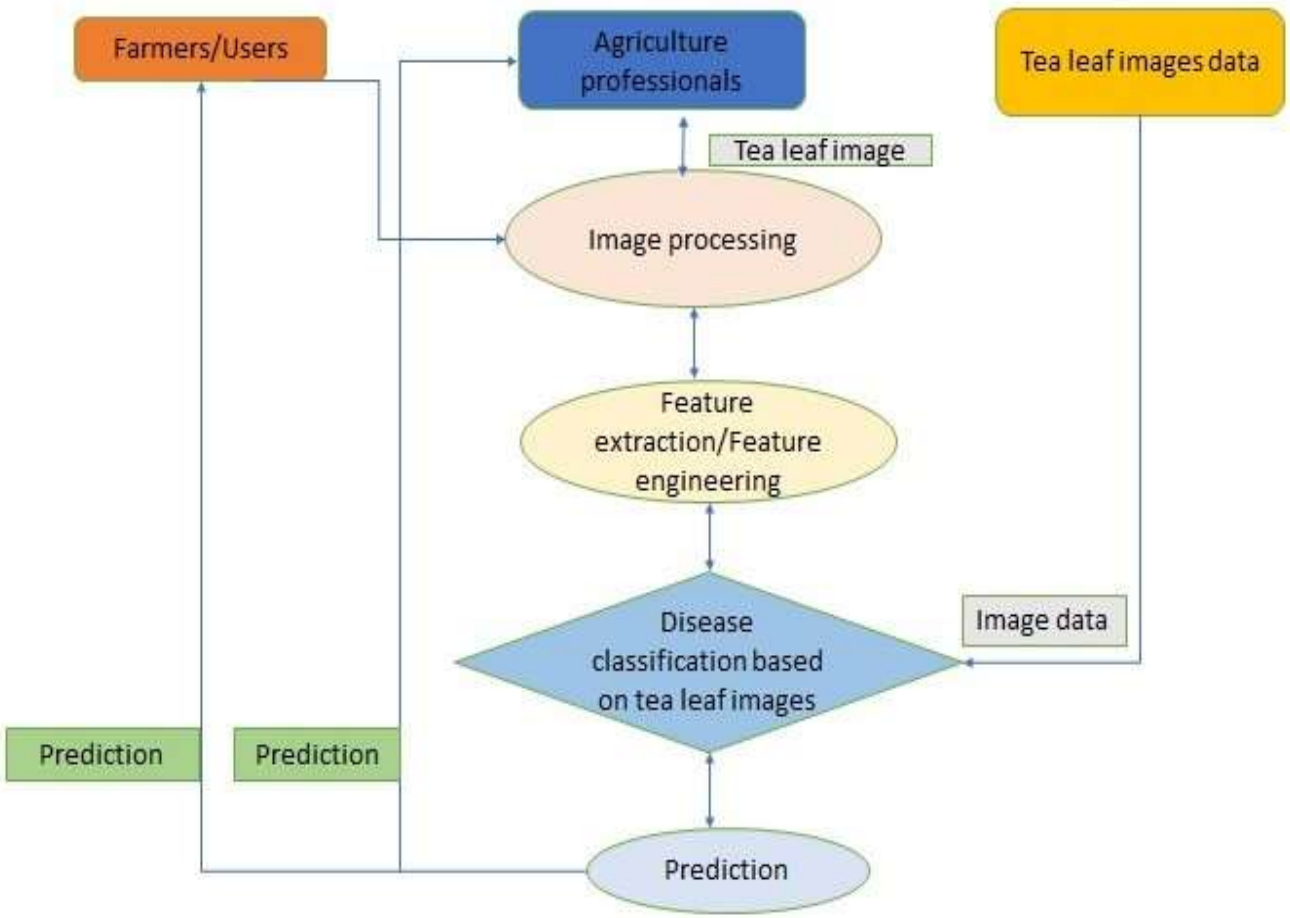
| Date | 8 November 2023 |
| Team ID | Team-592127 |
| Project Name | Deep Learning Model For Detecting Diseases In Tea Leaves |
| Maximum Marks | 4 Marks |

**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 Num | User Story / Task | Acceptance criteria | Priority | Release |
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| Farmers (Web User) | Registration | USN-1 | As farmer, I want to fill my details like name, mail id, password to sign up so that I can have access to my account whenever I need. | I can access my account Through registered mail id. | High | Sprint -1 |
| Farmers (Web User) | Password Recovery | USN-2 | As a user, I want the option to recover my account password in case I forget it, to regain access to my account. | The system should provide a secure password recovery mechanism via email or phone verification. | High | Sprint -1 |
| Farmers (Web User) | Access Account History | USN-3 | As a user, I want to view my account activity and transaction history to track my usage and monitor any changes or activities within my account. | The system should provide a clear and comprehensive account history log, including details of transactions, logins, and other relevant activities. | High | Sprint -1 |
| Farmers (Web User) | Results Visualization | USN-4 | As farmer, I want a visual representation of the disease detection results to facilitate decision-making. | The system should display the model's predictions, highlighting areas of concern on the tea leaf images, and provide a confidence score for each prediction. | Medium | Sprint -2 |
| System Administrators | Model Maintenance | USN-5 | As a system administrator, I want tools to monitor and maintain the health of the deep learning model over time. | The system should provide logs, alerts, and tools for retraining the model periodically to ensure its effectiveness in detecting diseases in tea leaves. | Medium | Sprint -2 |

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| Farmers (Web User) | Real-time Prediction | USN-6 | As a farmer, I want the ability to get real-time predictions for disease detection on live camera feed. | The system should support real-time prediction using a camera feed, providing instant feedback on the health status of tea leaves. | Low | Sprint -3 |
| Farmers (Web User) | Mobile Accessibility | USN-7 | As an agricultural researcher/farmer, I want to access the disease detection model on my mobile device for on-the-go monitoring. | The system should be accessible and user-friendly on mobile devices, allowing users to check disease predictions and results anytime, anywhere. | Medium | Sprint -2 |
| Data Scientists | Model Customization | USN-8 | As a data scientist, I want the ability to customize and fine-tune the deep learning model parameters for optimal performance. | The system should provide options for data scientists to adjust hyperparameters, model architecture, and training settings to enhance model accuracy. | High | Sprint -1 |