

## **Status Document**

# **Enhancing Sustainable Crop Protection through Machine Learning-Driven Integrated Strategies**

Project ID: TMP-2023-24-074

Wijesinha W.S.S - IT20641092



**B.Sc. (Hons) Degree in Information Technology Specialized in Software  
Engineering**

**Department of Computer Science and Software Engineering  
Sri Lanka Institute of Information Technology,  
Sri Lanka**

December 2023

# DECLARATION

I declare that this is my own work, and this dissertation does not incorporate without acknowledgement any material previously submitted for a degree or Diploma in any other University or institute of higher learning, and to the best of my knowledge and belief, it does not contain any material previously published or written by another person except where the acknowledgement is made in the text.

Also, I hereby grant to the Sri Lanka Institute of Information Technology the nonexclusive right to reproduce and distribute my dissertation, in whole or in part in print, electronic, or another medium. I retain the right to use this content in whole or part in future works (such as articles or books).

Name : Wijesinha W.S.S

Student ID : IT20641092

Signature :

A handwritten signature in blue ink, appearing to read 'Sachin', is written over a horizontal line.

Contents

DECLARATION..... 2

Meetings ..... 4

Screenshots of WhatsApp Chats..... 7

Screenshots of SharePoint..... 9

Screenshots of Mails ..... 9

Bucket Plan ..... 10

PROGRESS AND PLANNER ..... 10

Gantt Chart ..... 11

Work Breakdown Structure ..... 11

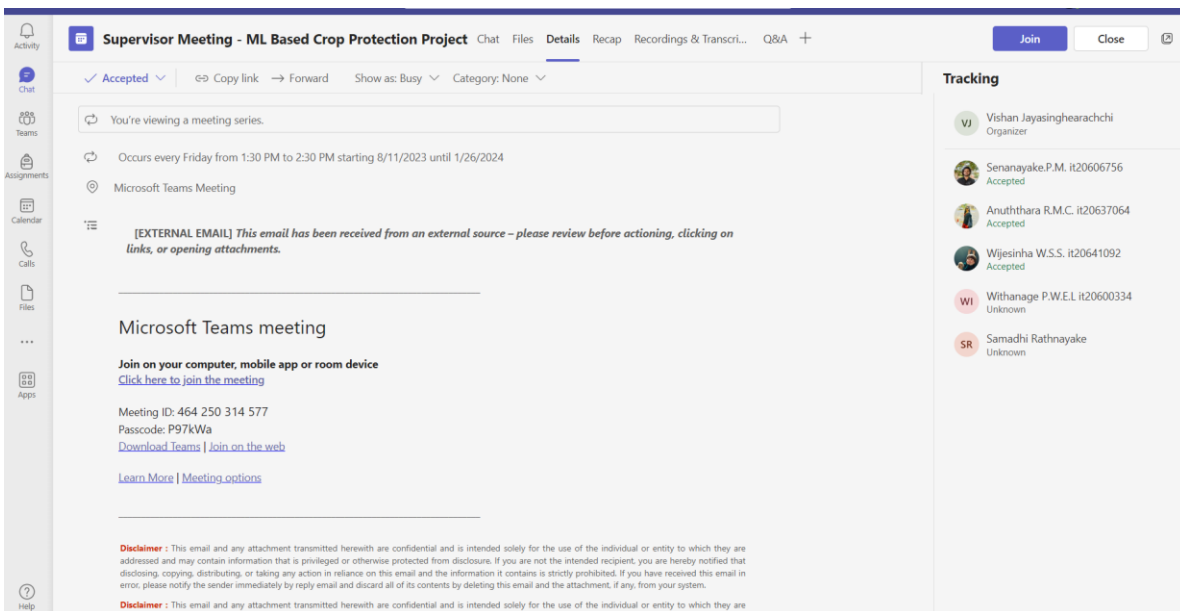
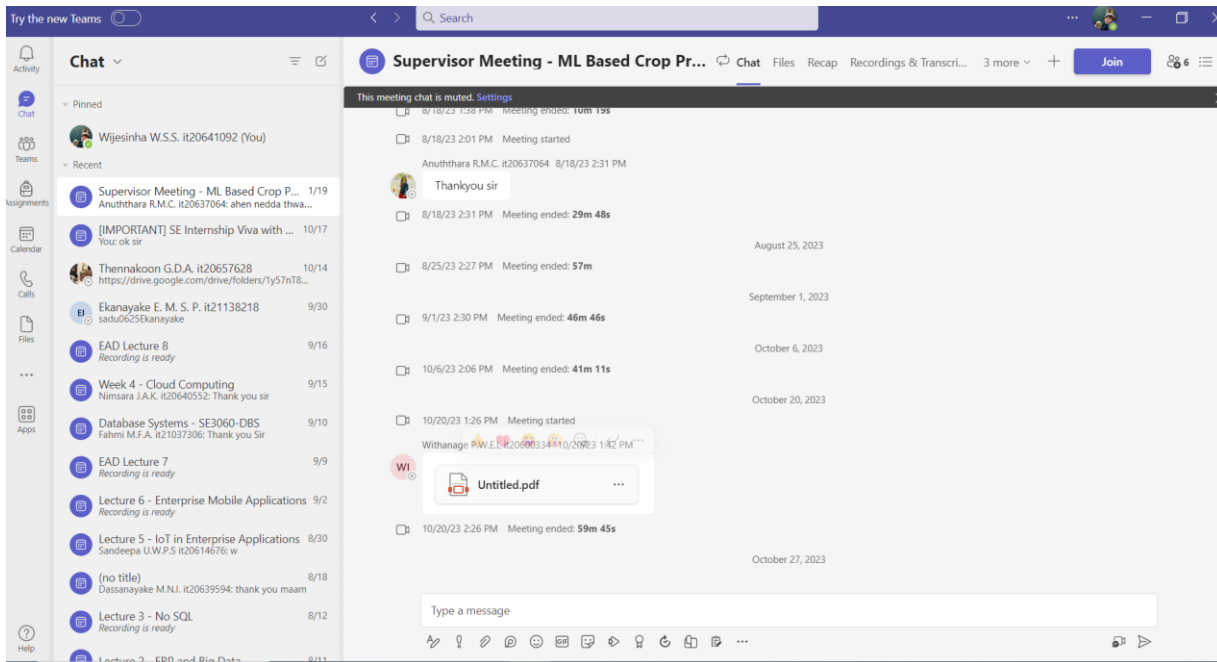
# Meetings

<b>Date</b>	<b>Reason</b>	<b>Mode</b>
11/07/2023	Discuss about the topic selection	Physical
19/07/2023	Finalize the topic	Physical
22/07/2023	Discuss about Proposal presentation	Teams
11/08/2023	Discuss about proposal issues	Hybrid
18/08/2023	Finalize the Components	Hybrid
25/08/2023	Discuss about TAF	Hybrid
01/09/2023	Initial awareness for progress presentation 1	Teams
06/10/2023	Prep for Progress Presentation	Physical
31/10/2023	Final Prep for Progress Presentation	Physical
10/11/2023	Discuss about the PP1 Comments	Hybrid
01/12/2023	Discuss component progress & related issues	Hybrid
15/12/2023	Initial awareness for research paper publication	Hybrid
22/12/2023	Discuss progress of the research paper & components	Hybrid
19/01/2024	Discuss progress of the research paper & components	Teams

\*HYBRID – Some members physically & others online

# Screenshots of MS Teams meetings

## Online meetings and physical meetings



## Research members only discussion

Activity

Chat

Teams

Assignments

Calendar

Calls

Files

...

Apps

Help

< All teams

SLIIT

Research (Member Discussion)

General

General

Posts

Files

+

Meet

ⓘ

...

Meeting in "General" ended: 52s

↩ Reply

Thursday, July 13, 2023

New channel meeting ended: 4h 18m

↩ Reply

Friday, July 28, 2023

Meeting in "General" started

9 replies from IT20606756 and IT20600334

↩ Reply

Saturday, July 29, 2023

Meeting in "General" ended: 7h 45m

↩ Reply

Sunday, July 30, 2023

Meeting in "General" ended: 2h 22m

↩ Reply

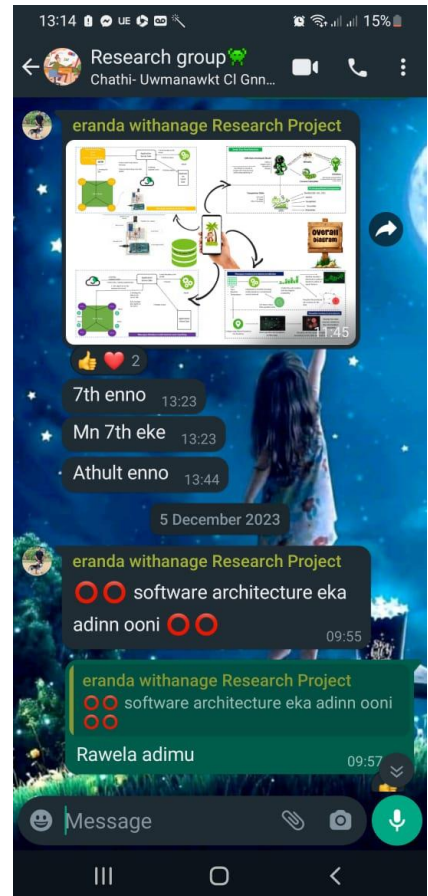
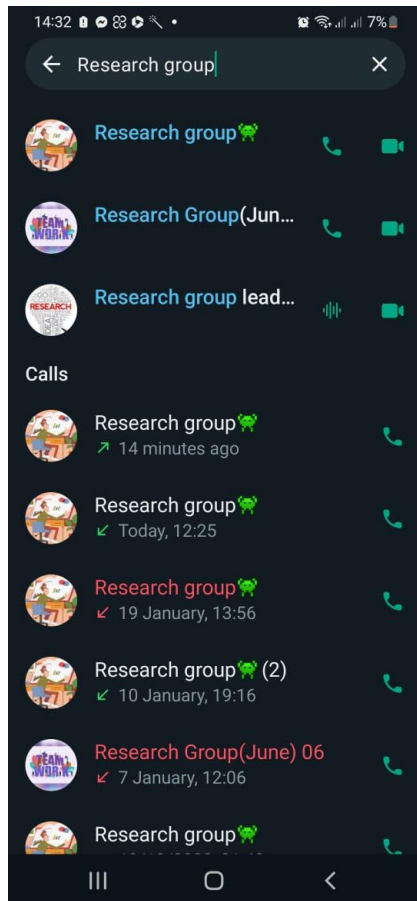
Tuesday, November 28, 2023

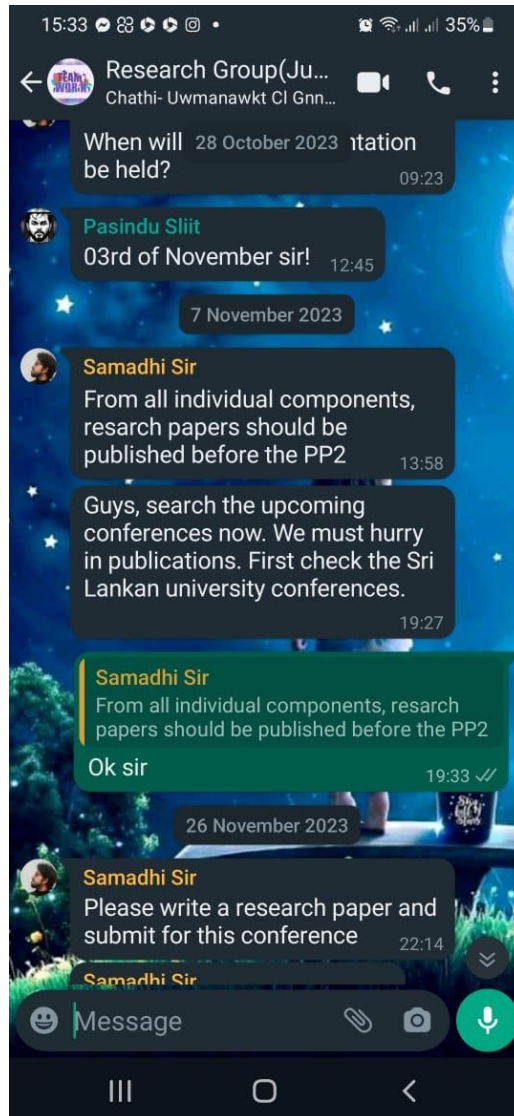
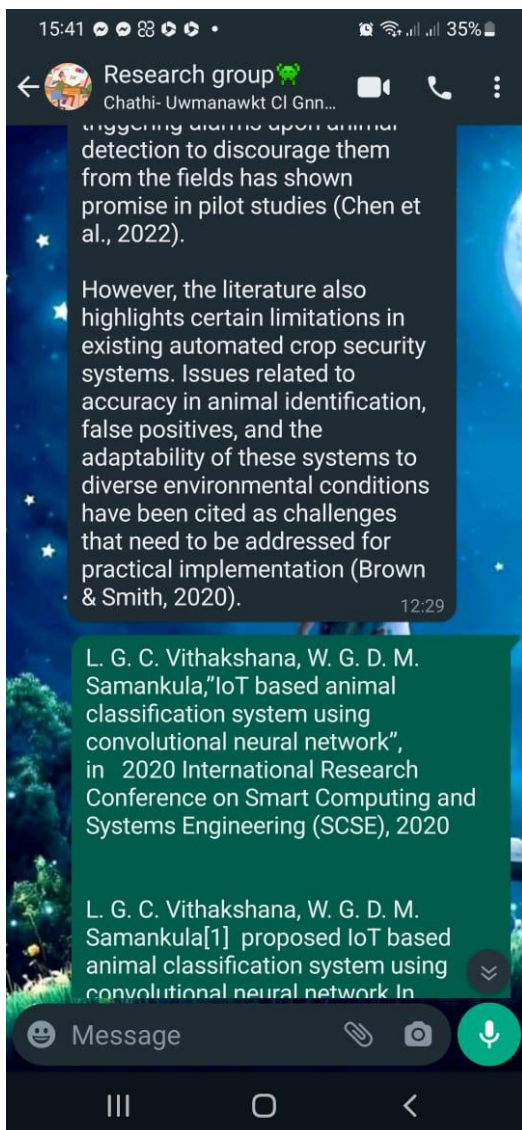
Meeting in "General" ended: 1h 41m

↩ Reply

New conversation

# Screenshots of WhatsApp Chats







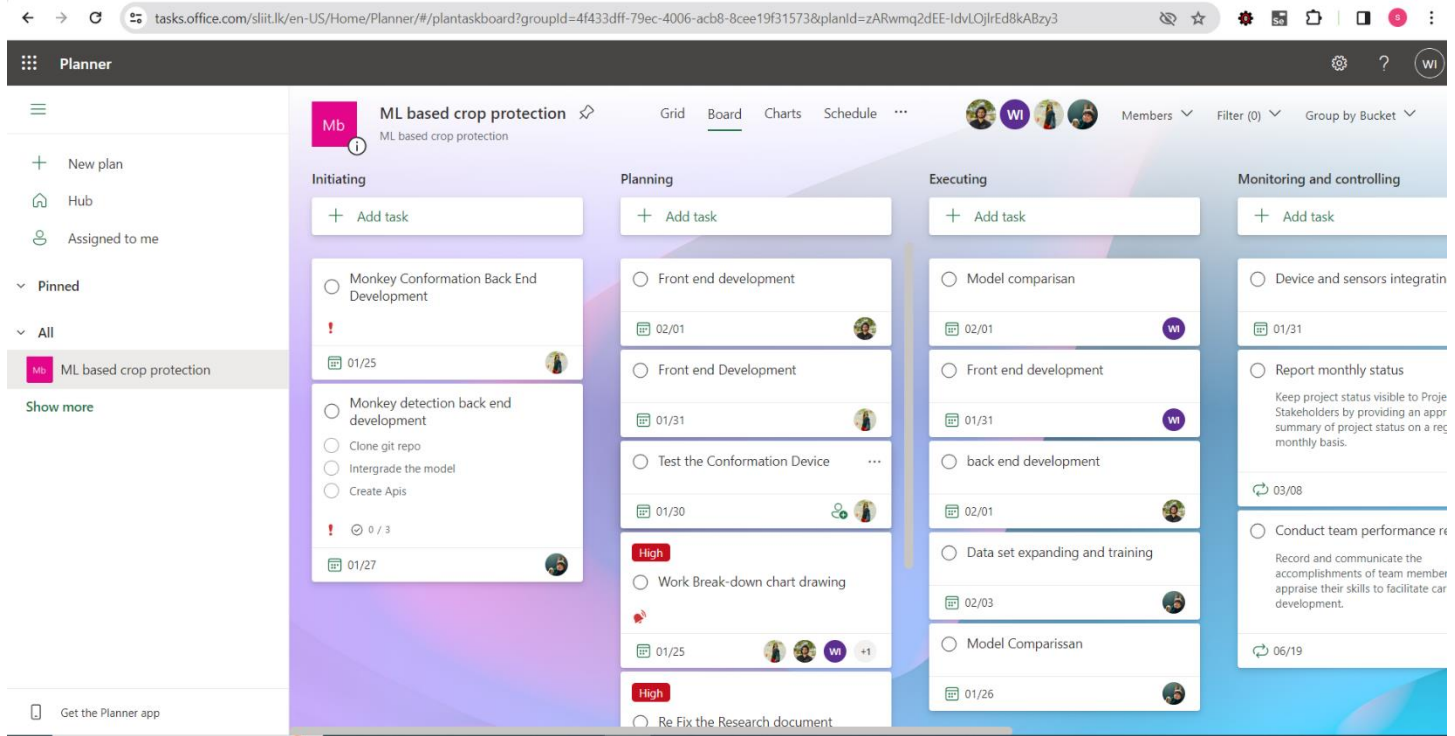
# Screenshots of SharePoint

The screenshot shows a SharePoint site named '4th\_Year\_Research'. The top navigation bar includes the SharePoint logo, a search bar, and icons for notifications, settings, and help. The left sidebar contains a navigation menu with options like Home, Conversations, Documents, Notebook, Pages, Site contents, and Recycle bin. The main content area displays a 'New' button, 'Page details', and 'Analytics' tabs. Below these, there's an 'Activity' section showing recent updates to documents like 'SitePages Home', 'Documents Overall diagram', and 'Documents Paper'. A 'See all' link is provided for each activity. On the right, there's a 'Name' dropdown and a 'Documents' folder icon. At the bottom left, there's a prompt to 'Add real-time chat' using Microsoft Teams.

# Screenshots of Mails

The screenshot shows an Outlook email interface. The top bar includes the Outlook logo, a search bar, and icons for mail, calendar, tasks, and settings. The left sidebar shows the 'Favourites' and 'Folders' sections, with 'Inbox' selected. The main content area displays an email from 'Senanayake.P.M. it20606756 <it20606756@my.sliit.lk>' to 'Vishan Jayasinghearachchi'. The email subject is 'Overall Architecture of ML Based Crop Protection Project'. The body of the email includes a warning about an external email, a greeting, and a statement about the attached 'Overall Architecture' diagram. The email is dated 'Fri 11/08/2023 01:15'. A 'Disclaimer' section at the bottom states that the email and its attachments are confidential and intended solely for the use of the individual or entity to which they are addressed.

# Bucket Plan

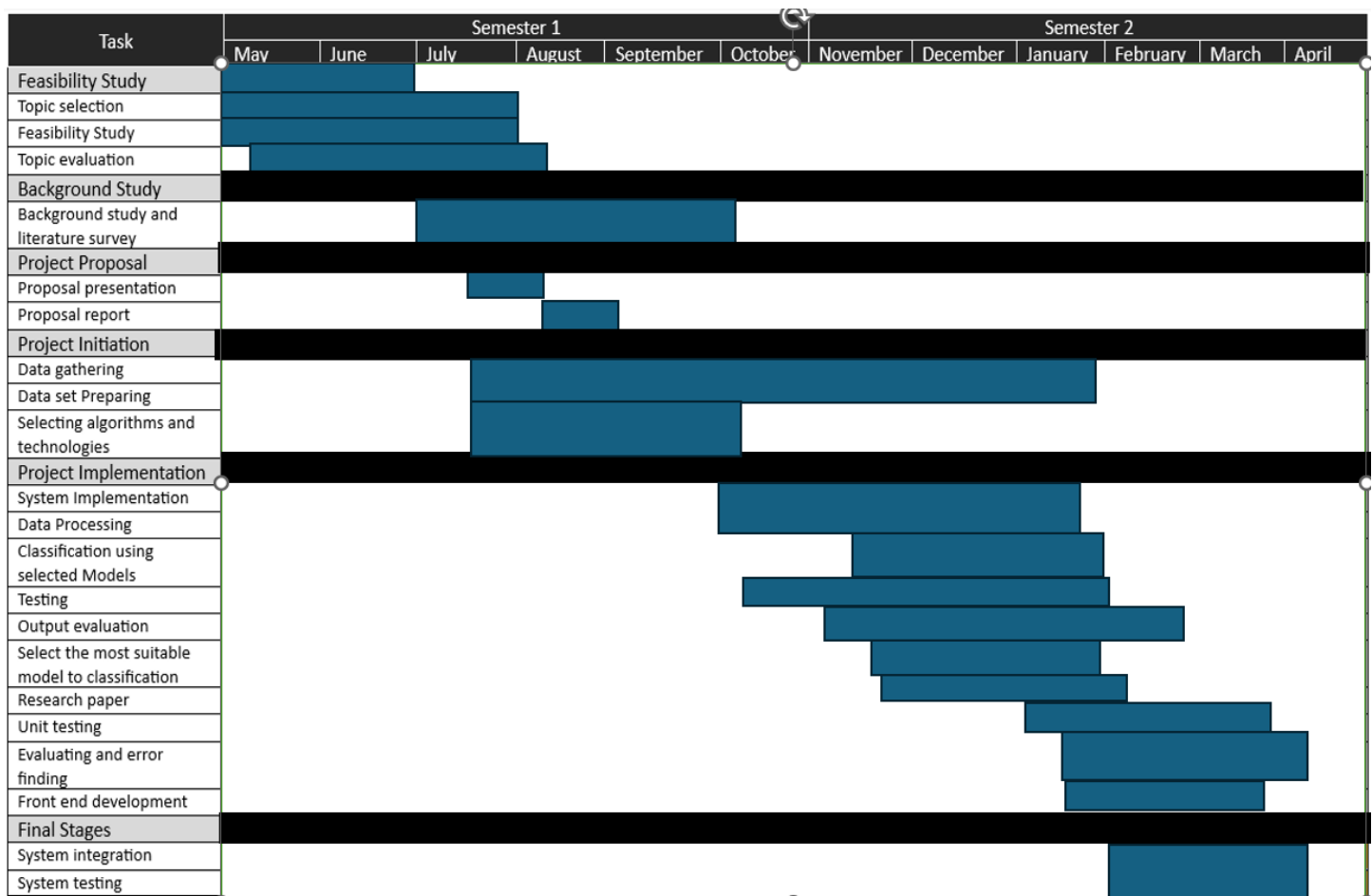


## PROGRESS AND PLANNER

Man tasks	Sub Tasks	Status	Complete Date
Data Collection	Collect Data sets from the previous researches.	Completed	29/01/2024
	Field visit and collect data.	Completed	
	Collect audios from the internet.	Executing for increase the data set	
	Cut the audios and preprocess them.	Executing	
Model Implementation	Model implementation.	Completed	22/01/2024
	Test the models.	Executing	
IOT Device Implementation ad Testing	Select the devices. Brought the devices. Devices connect and implementation.	Completed	15/09/2023
		Completed	02/11/2023
		Completed	10/01/2024
	Testing	Executing	27/02/2024

Front End Development		Planning	02/02/2024
Backend Deveopment		Executing	30/01/2024

## Gantt Chart



## Work Breakdown Structure

