

Status Document

Enhancing Sustainable Crop Protection through Machine Learning-Driven Integrated Strategies

Project ID: TMP-2023-24-074

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

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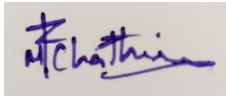
DECLARATION

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.

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Name : Anuththara R.M.C

Student ID : IT20637064 Signature

A handwritten signature in blue ink, appearing to read 'Anuththara', is shown within a light gray rectangular box.

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Meetings

Date	Reason	Mode
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

This screenshot shows a Microsoft Teams chat window for a meeting series titled "Supervisor Meeting - ML Based Crop Protection Project". The left sidebar displays the "Recent" list with several meetings, including "Supervisor Meeting - ML Based Crop ... 1/19", "BANDARA O G H P it23317758 11/1/2023", "Wimalasiri W.R.P it20621810 10/13/2023", "SSD documentation 10/2/2023", "EAD Lecture 7 9/9/2023", "Lecture 6 - Enterprise Mobile App... 9/2/2023", "Lecture 5 - IoT in Enterprise App... 8/30/2023", "RP WE Lecture for 2023/24 July ... 8/22/2023", "EAD Lecture 1 7/29/2023", and "Special Lecture on Proposal P... 7/27/2023". The main chat area shows a series of messages from Vishan Jayasinghearachchi, including a link to a microphone amplifier module and a "Thankyou sir" message. The right sidebar shows the "Join" button and a list of participants.

This screenshot shows the "Details" page for a Microsoft Teams meeting titled "Supervisor Meeting - ML Based Crop Protection Project". The page displays the meeting series information, including the frequency (every Friday from 1:30 PM to 2:30 PM starting 8/11/2023 until 1/26/2024) and the meeting type (Microsoft Teams Meeting). A disclaimer message is shown: "[EXTERNAL EMAIL] This email has been received from an external source - please review before actioning, clicking on links, or opening attachments." The meeting ID is 464 250 314 577 and the passcode is P97kWa. The right sidebar shows the "Tracking" section with a list of participants, including Vishan Jayasinghearachchi (Organizer), Senanayake.P.M. it20606756 (Accepted), Anuththara R.M.C. it20637064 (Accepted), Wijesinha W.S.S. it20641092 (Accepted), Withanage P.W.E.L it20600334 (Unknown), and Samadhi Rathnayake (Unknown).

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

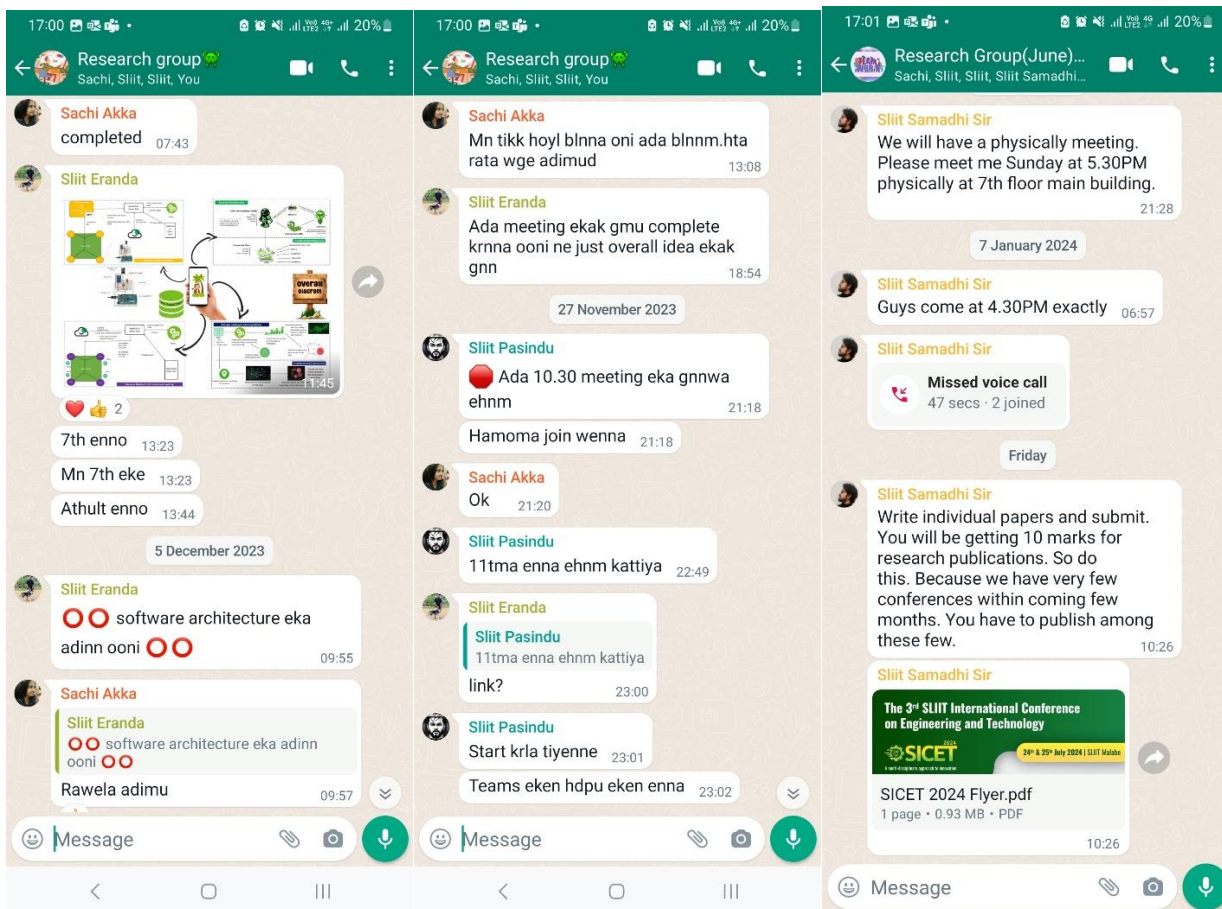
Tuesday, November 28, 2023

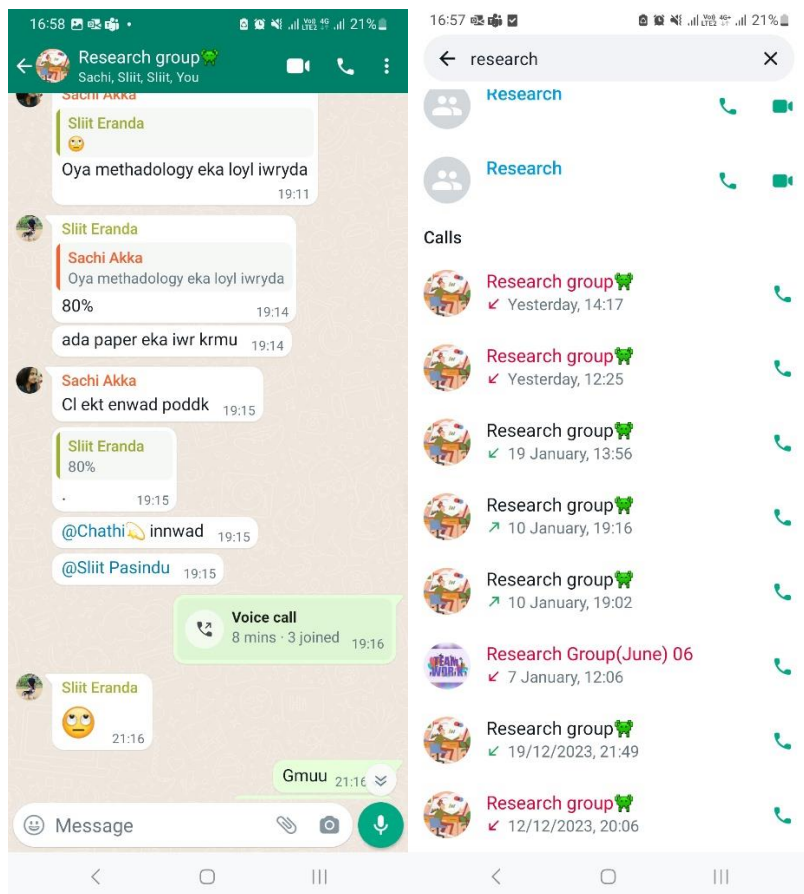
Meeting in "General" ended: 1h 41m

Reply

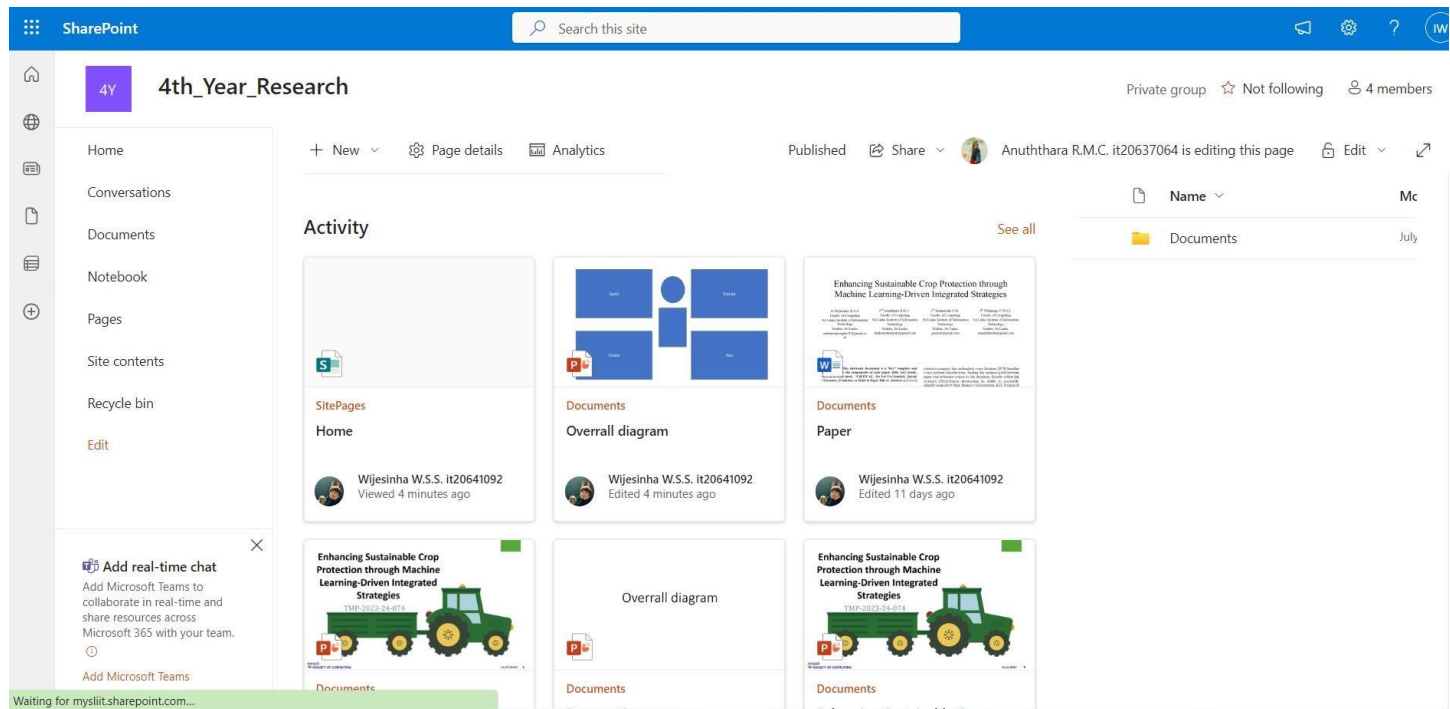
New conversation

Screenshots of WhatsApp Chats

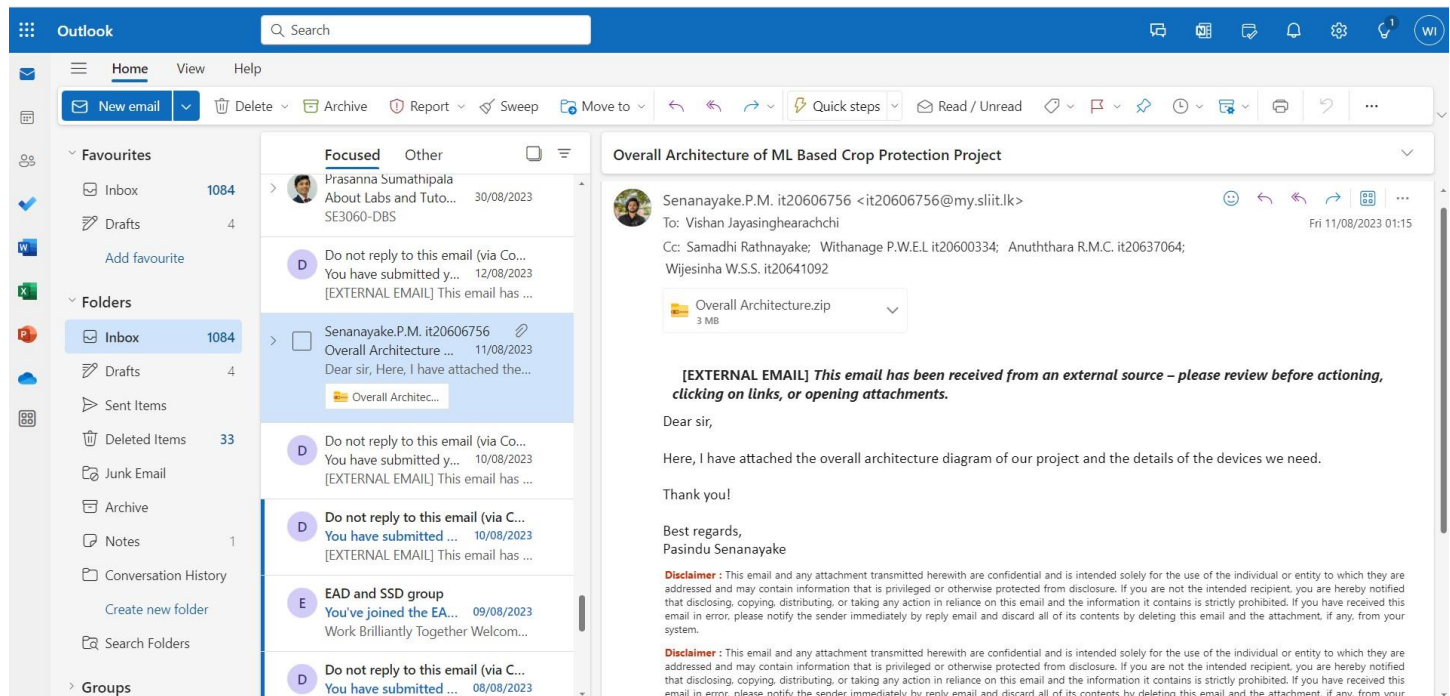




Screenshots of SharePoint



Screenshots of Mails



Bucket Plan

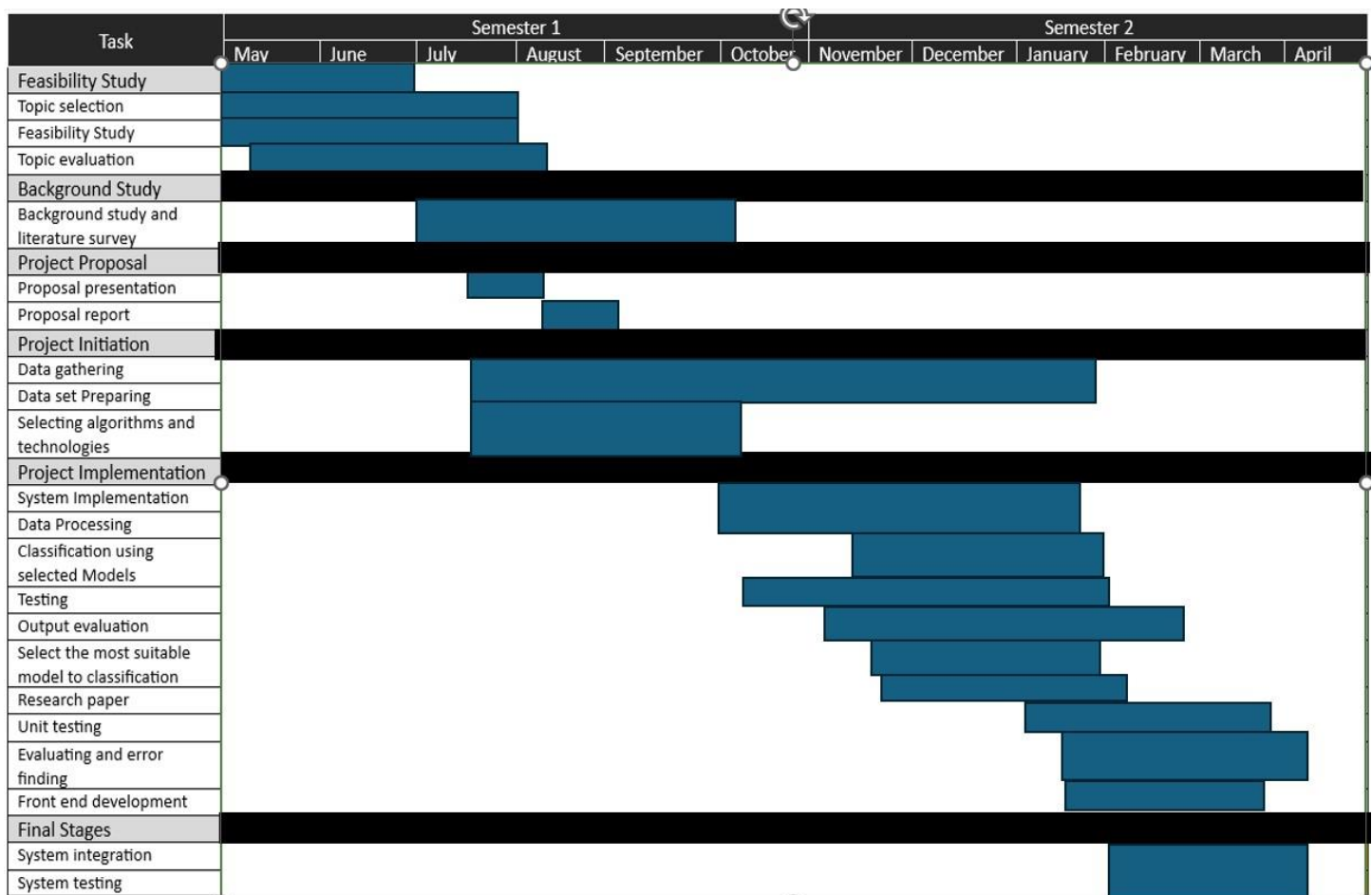
The screenshot displays the Microsoft Planner application. The main view is a Kanban board for a plan named 'ML based crop protection'. The board is organized into four columns: 'Initiating', 'Planning', 'Executing', and 'Monitoring and controlling'. Each column has a header with a '+ Add task' button. Below the headers, tasks are listed as cards. Each card includes a title, a due date (e.g., 01/25, 02/01), and an assigned team member's profile picture. Some cards have a 'High' priority label. The left sidebar shows a list of plans, with 'ML based crop protection' selected. The top navigation bar includes options like 'Grid', 'Board', 'Charts', and 'Schedule'.

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 videos from the internet.	Executing for increase the data set	
	Cut the videos 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 implement.	Completed Completed	15/09/2023 02/11/2023
		Completed	10/01/2024
	Testing	Executing	27/02/2024
Front End Development		Planning	02/02/2024
Backend Development		Executing	30/01/2024

Gantt Chart



Work Breakdown Structure

