

# **SYNEGETIC INNOVATION IN GHERKIN CULTIVATION**

**2024 - 010**

**Status Document - 1  
IT20254216 – Dayarathna T.W.K.D.A.**

**Supervisor: Dr.Dharshana Kasthurirathne**

**Co- supervisor: Ms.Poojani Gunathilake**

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

**Department of Computer Science and Information Technology**

**Sri Lanka Institute of Information Technology Sri Lanka**

**February 2024**

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## 01. Screenshots of the Teams Meeting

As per the instructions given by the RP team, the screenshots and the meetings of the MS teams were taken with our supervisor Dr. Dharshana Kasthurirathne and co-supervisor ms.Poojani Gunathilake, which is shown in the figures below.

Firstly, we created Channel for our research team in MS Teams

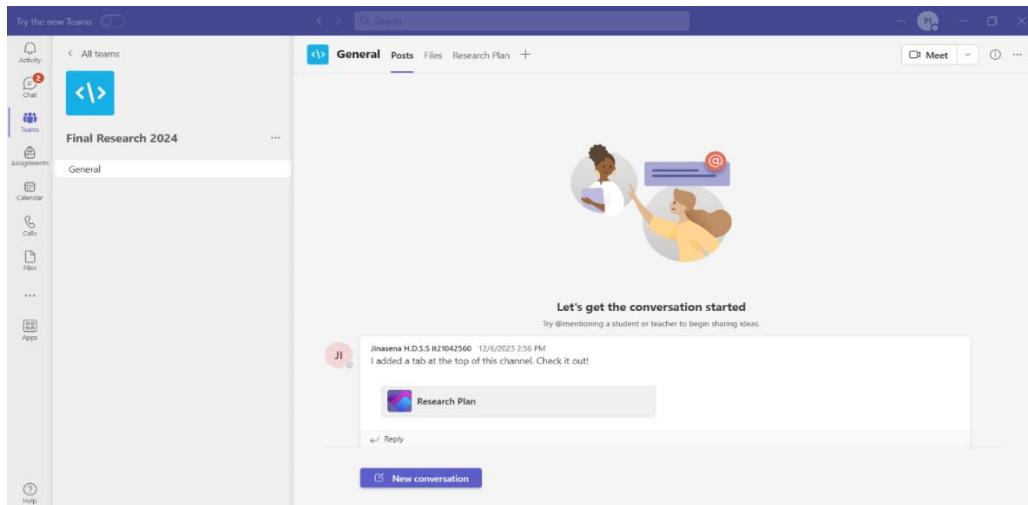


Figure 1 create teams channel.

Schedule a meeting to choose a research topic.

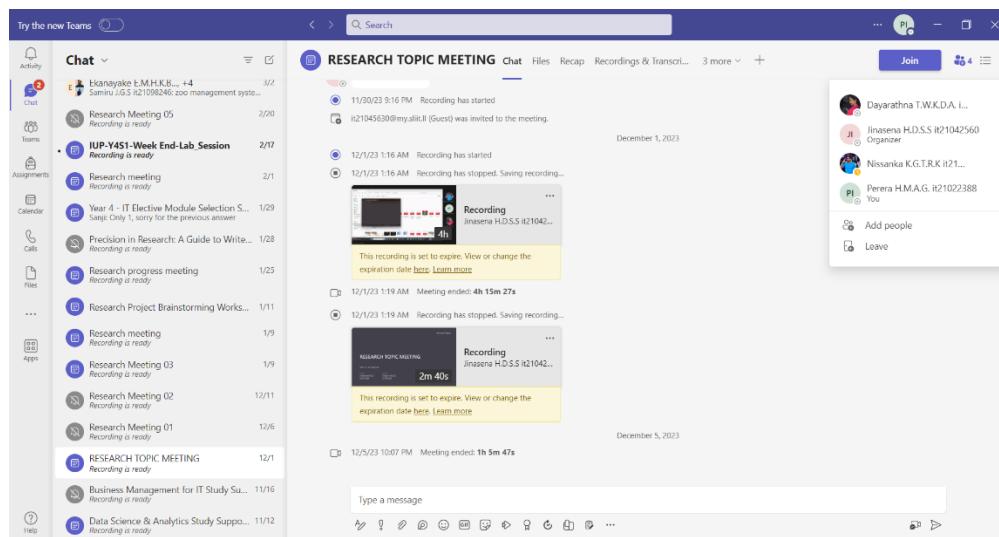


Figure 2 research topic meeting

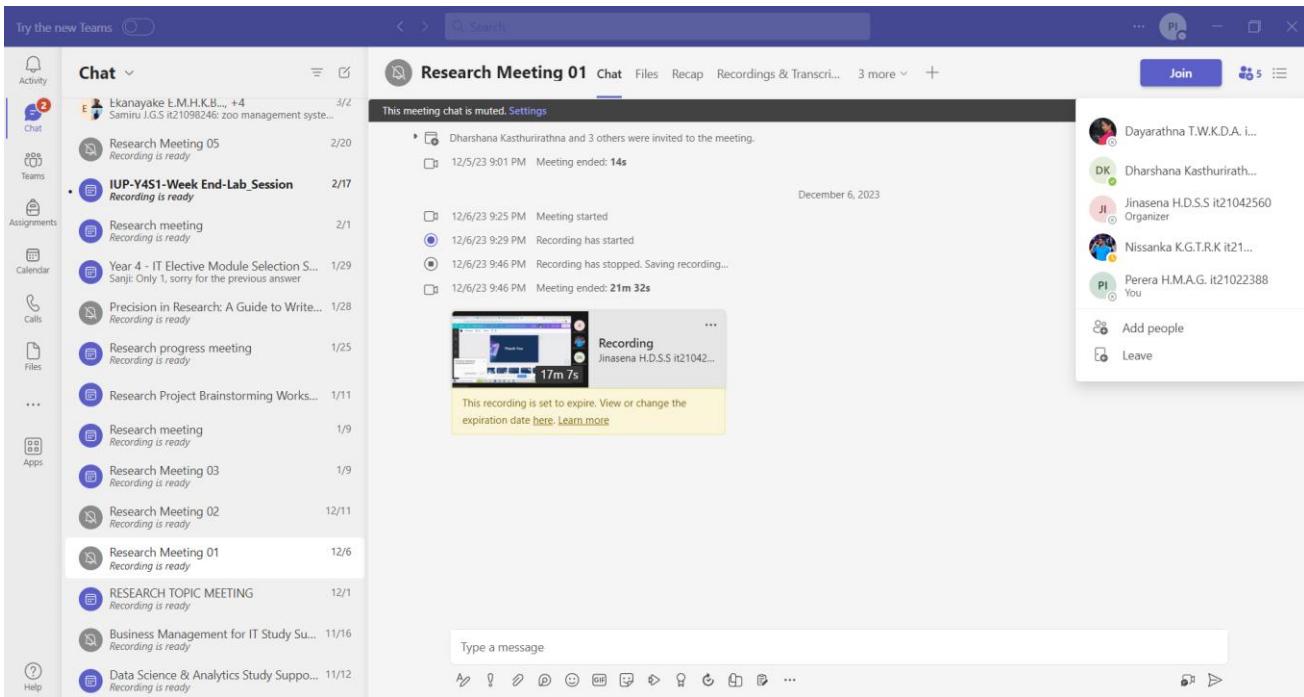


Figure 3research meeting one

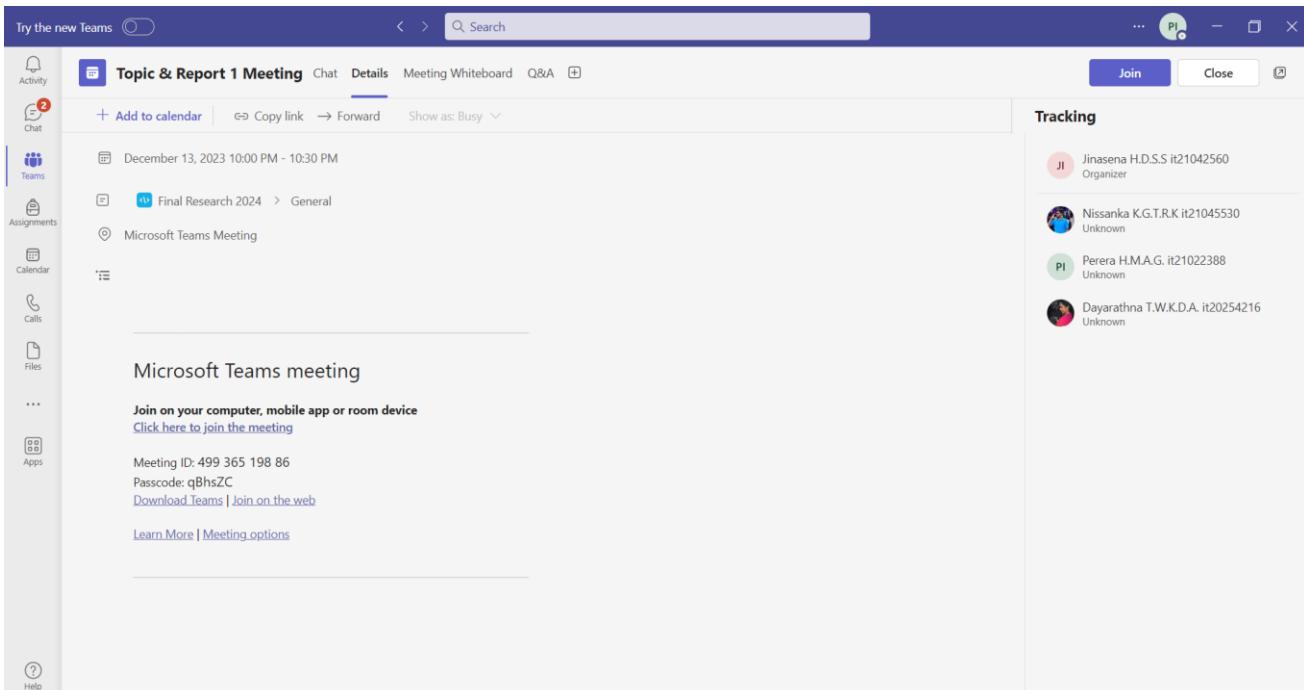


Figure 4 topic and report meeting

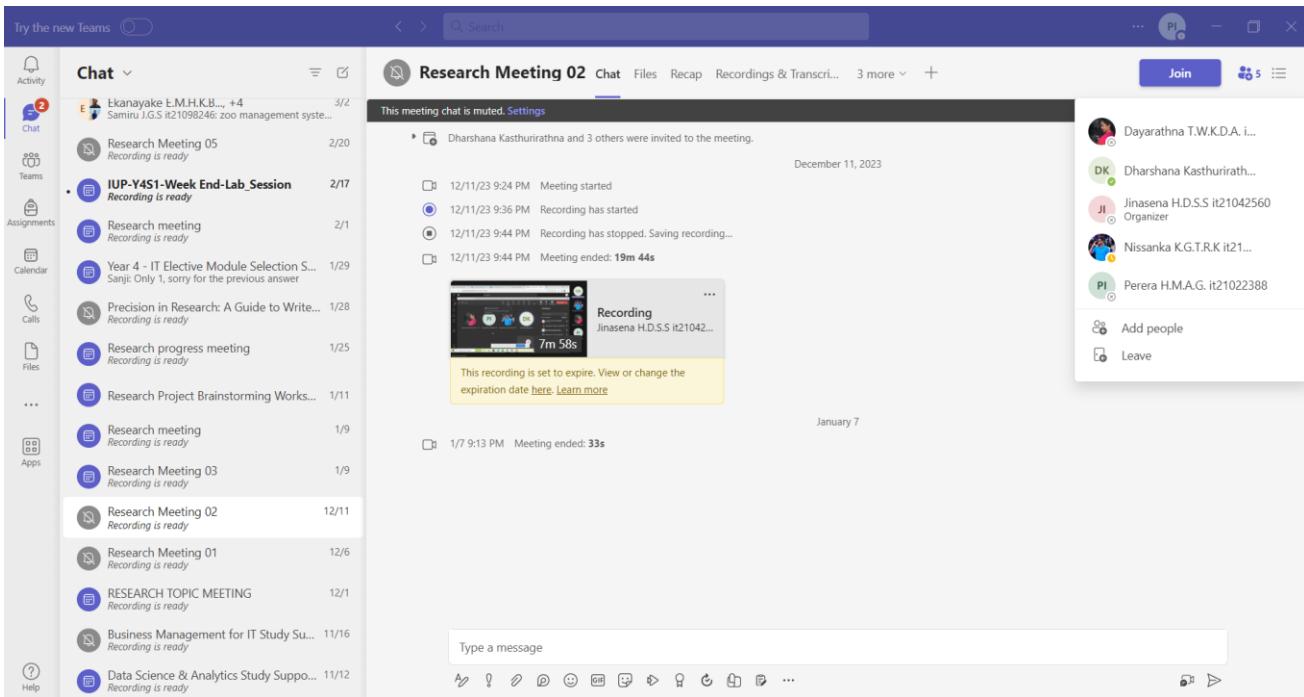


Figure 5 Research meeting 02

## Show supervisor to our functions

**Synergistic Innovation in Gherkin Cultivation - functions - Word**

**Sajindu Jinasena** Share

**Synergistic Innovation in Gherkin Cultivation**

**Function 01: Identify Quality of Gherkins**

**Objective** - To measure and ensure the quality of gherkins based on parameters such as size, color, plants/leaves, and texture. Additionally, provide instructions in case of any quality issues.

**Approach** - Utilize machine learning algorithms to analyze images of gherkins, extracting features related to size, color, plant health, and texture. Implement a quality control system that identifies any anomalies or deviations from the desired standards.

**Implementation** -

- 1. Image Processing** – Employ computer vision techniques to process images of gherkins. Extract relevant features like size, color, and texture using image recognition algorithms.
- 2. Quality Assessment** – Develop a machine learning model to evaluate the extracted features against predefined quality standards. Implement a feedback system to address quality issues, providing specific instructions for improvement.

Page 1 of 3 491 words

Stop sharing Hide

9:02 PM 1/9/2024

Type here to search

Dayarathna T.W.K.D.A. i...

Nissanka K.G.T.R.K. it21...

Jinasena H.D.S.S. it21...

Dharshana Kasthuri...

Perera H.M.A.G. it21...

Figure 6 Resrach meeting with supervisor

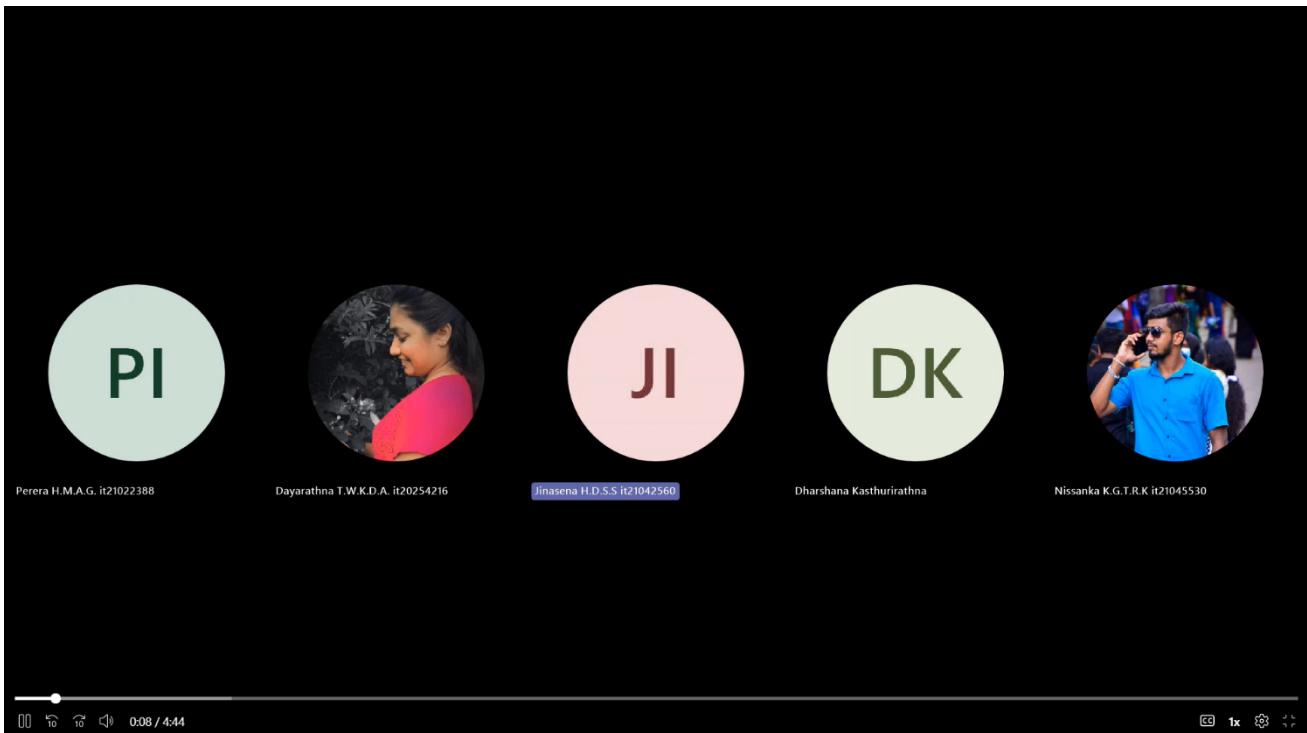


Figure 7 Reserch meeting 03

Clarify issues regarding components.

The screenshot shows the Microsoft Teams interface. On the left is a sidebar with various sections: Activity, Chat (with 2 notifications), Teams, Assignments, Calendar, Calls, Files, Apps, and Help. The Chat section is active, showing a pinned message from Perera H.M.A.G. and recent messages from Jinasena H.D.S.S., Research meeting 07, Bandara M.M.P.R.M, RP Lecture - 2024 Regular Batch, Information Assurance and Security..., ITPM - Mahinda Hora, RP Awareness Workshop (RP 24/25 Jun...), Hewage S. H, [IMPORTANT] IT Internship Viva with M..., Umarda K.K.A.A., Ekanayake E.M.H.K.B., and Research Meeting 05. The main area shows a recap of 'Research meeting 07' from May 2, 2024, at 9:30 PM - 9:58 PM. The recap includes participant icons (PI, JI, DK) and a recording player showing 3:43 / 27:46. The content section indicates no files were shared.

Figure 8 Reserach meeting 07

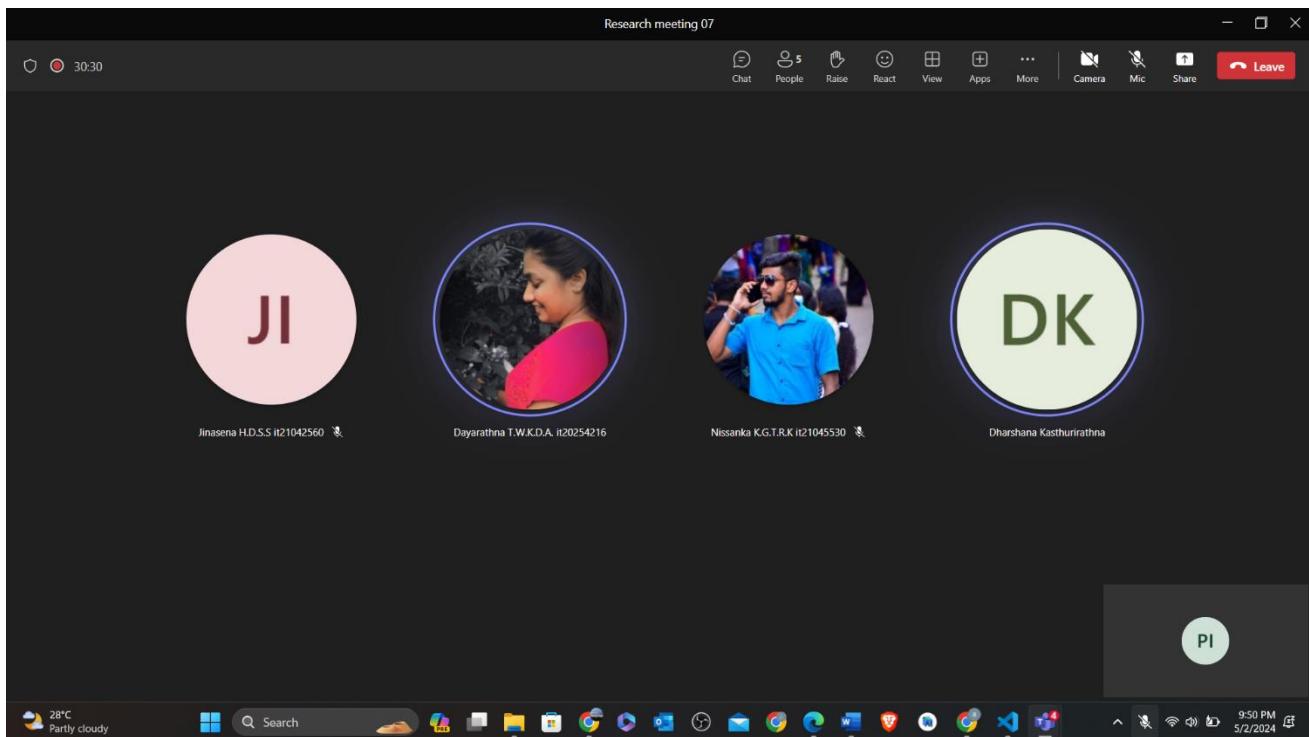


Figure 9 Research meeting with data classification

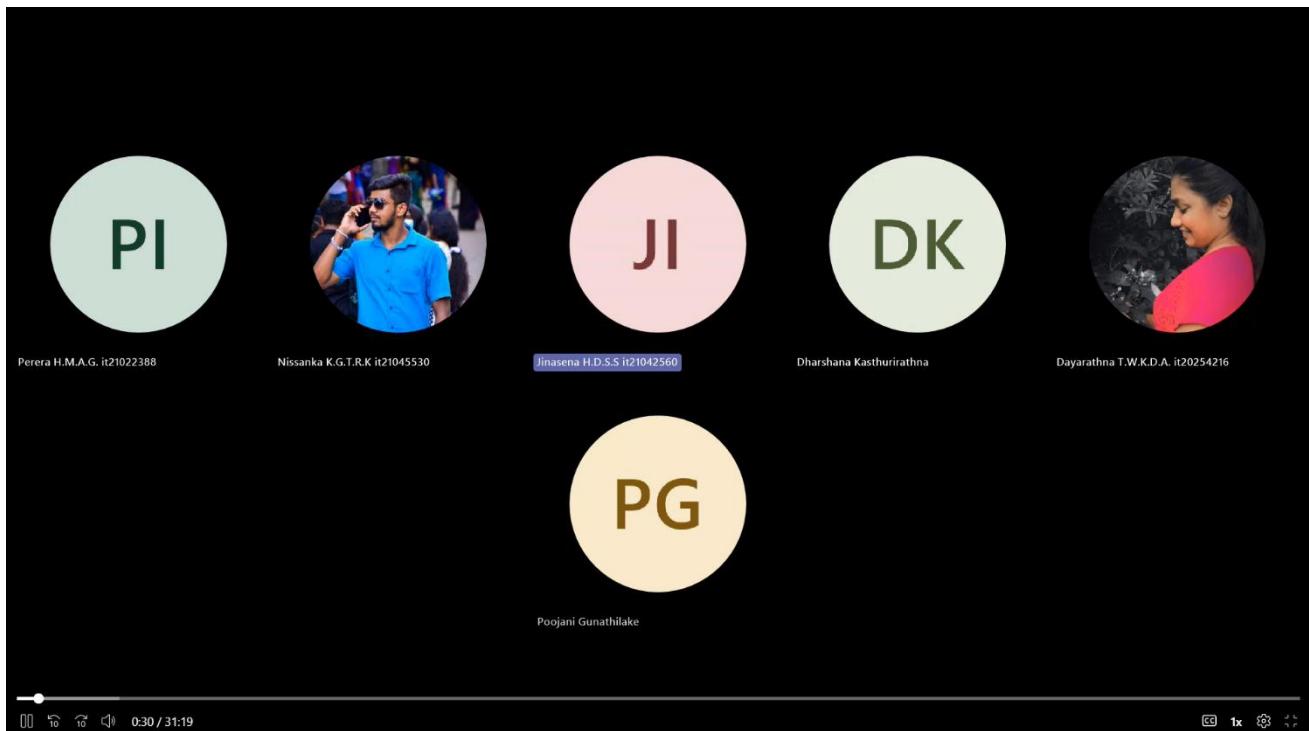


Figure 10 Reserach meeting with supervisor and co-supervisor

## 02. Screenshots of the WhatsApp group and chats

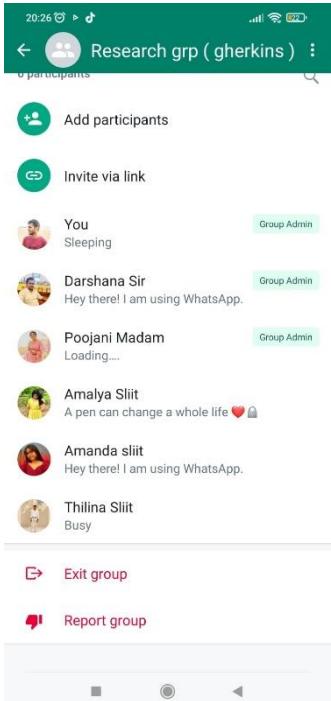


Figure 11 Research WhatsApp group

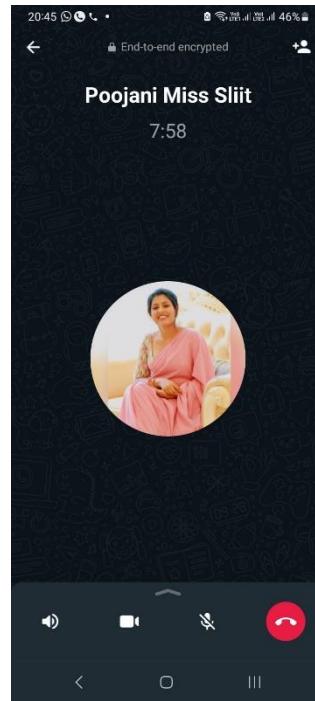


Figure 12 call with co-supervisor

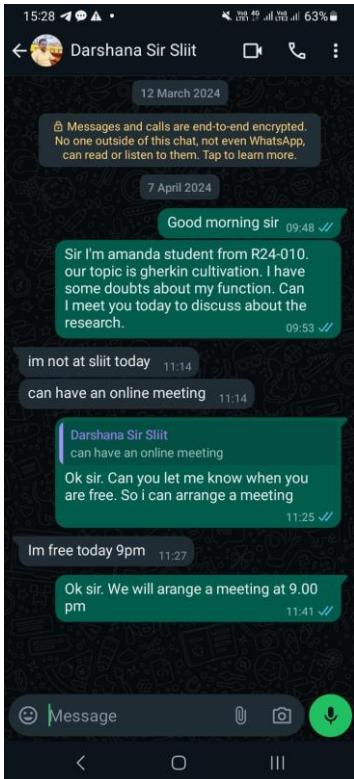


Figure 13 Discuss a arrange meeting with supervisor.

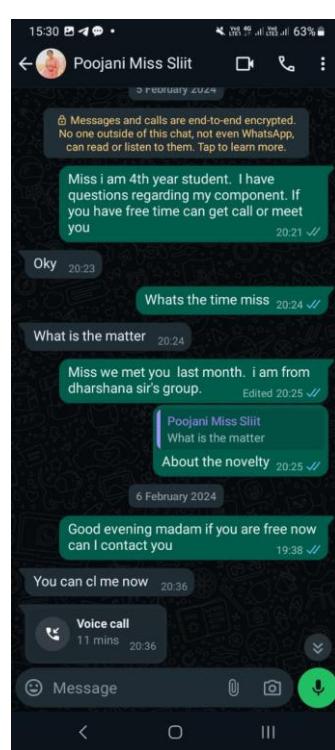


Figure 14 Discuss my function with co-supervisor

### 03. Create git Repository and branch.

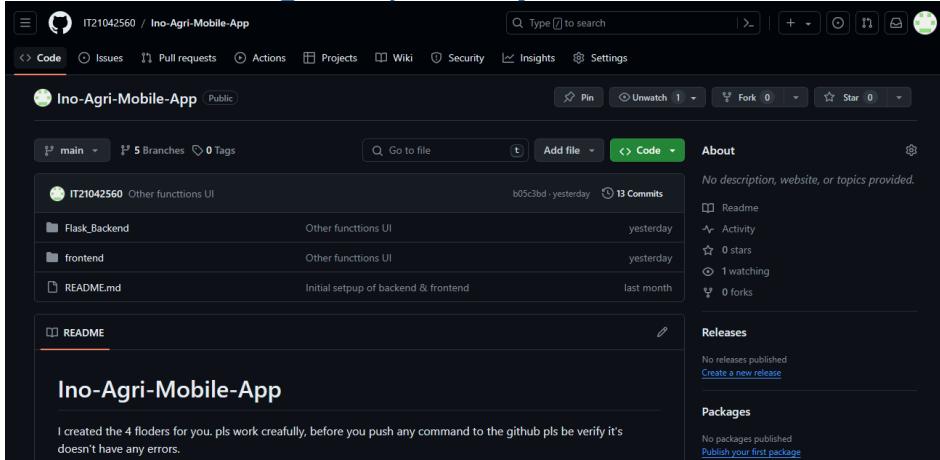


Figure 15 Github

Physical meetings with clients (Hayleys company)



Figure 16 HJS visit



Figure 17 Meeting with hjs company





Figure 18 HJS Company

Board of Investment of Sri Lanka Export Processing Zone - Blyagama Temporary Entry Permit		45/FO/ZM/18
Gate No. : 1	Internal Request	Permit No. : 0003888753 Request Ref. No. : 0002240527
<b>Visitors / Suppliers / Businessmen / Contractors</b>		
Date of Issue : 19/02/2024 09:27AM	Issued to : H.D.S.S.JINASENA	
Identification No. : 200002300967	Place of Visit : HJS CONDIMENTS LTD. 134094363-1	
Purpose : Visitor	Valid From : 19/02/2024 To : 18/02/2024	
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409938018-7000		
<small>NB : Individuals - National Identity Card to be produced along with the permit Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle</small>		
		
Board of Investment of Sri Lanka Export Processing Zone - Blyagama Temporary Entry Permit		45/FO/ZM/18
Gate No. : 1	Internal Request	Permit No. : 0003888754 Request Ref. No. : 0002240527
<b>Visitors / Suppliers / Businessmen / Contractors</b>		
Date of Issue : 19/02/2024 09:27AM	Issued to : H.M.A.G Perera	
Identification No. : 200085609216	Place of Visit : HJS CONDIMENTS LTD. 134094363-1	
Purpose : Visitor	Valid From : 19/02/2024 To : 18/02/2024	
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409938018-7000		
<small>NB : Individuals - National Identity Card to be produced along with the permit Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle</small>		
		
Board of Investment of Sri Lanka Export Processing Zone - Blyagama Temporary Entry Permit		45/FO/ZM/18
Gate No. : 1	Internal Request	Permit No. : 0003888755 Request Ref. No. : 0002240527
<b>Visitors / Suppliers / Businessmen / Contractors</b>		
Date of Issue : 19/02/2024 09:27AM	Issued to : K.O.T.R.K. Nissanka	
Identification No. : 200131302165	Place of Visit : HJS CONDIMENTS LTD. 134094363-1	
Purpose : Visitor	Valid From : 19/02/2024 To : 18/02/2024	
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409938018-7000		
<small>NB : Individuals - National Identity Card to be produced along with the permit Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle</small>		
		
Board of Investment of Sri Lanka Export Processing Zone - Blyagama Temporary Entry Permit		45/FO/ZM/18
Gate No. : 1	Internal Request	Permit No. : 0003888756 Request Ref. No. : 0002240527
<b>Visitors / Suppliers / Businessmen / Contractors</b>		
Date of Issue : 19/02/2024 09:27AM	Issued to : T.W.K.D.A. Deyarathna	
Identification No. : 9990400428Y	Place of Visit : HJS CONDIMENTS LTD. 134094363-1	
Purpose : Visitor	Valid From : 19/02/2024 To : 18/02/2024	
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409938018-7000		
<small>NB : Individuals - National Identity Card to be produced along with the permit Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle</small>		
		

Figure 19 Gate pass for hjs1

**Board of Investment of Sri Lanka**  
Export Processing Zone - Biyagama  
Internal Request Temporary Entry Permit

Gate No. : 1 Permit No. : 0003909572

Visitors / Suppliers / Businessmen / Contractors Ref. No. :

Date of Issue : 11/03/2024 09:27AM Issued to : J.W.J.A.O PERERA  
Identification No. : 200032300967 Place of Visit : H.J.S CONDIMENTS LTD. 13400003-1  
Purpose : Visitor Valid From : 11/03/2024 To : 11/03/2024  
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409038018-7000

NB : Individuals - National Identity Card to be produced along with the permit  
Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle

**Board of Investment of Sri Lanka**  
Export Processing Zone - Biyagama  
Internal Request Temporary Entry Permit

Gate No. : 1 Permit No. : 0002253060

Visitors / Suppliers / Businessmen / Contractors Ref. No. :

Date of Issue : 11/03/2024 09:27AM Issued to : H.J.S CONDIMENTS LTD. 13400003-1  
Identification No. : 200032300967 Place of Visit : H.J.S CONDIMENTS LTD. 13400003-1  
Purpose : Visitor Valid From : 11/03/2024 To : 11/03/2024  
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409038018-7000

NB : Individuals - National Identity Card to be produced along with the permit  
Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle

**Board of Investment of Sri Lanka**  
Export Processing Zone - Biyagama  
Internal Request Temporary Entry Permit

Gate No. : 1 Permit No. : 0003909574

Visitors / Suppliers / Businessmen / Contractors Ref. No. :

Date of Issue : 11/03/2024 09:27AM Issued to : N.M.S.K.L.R  
Identification No. : 200131302165 Place of Visit : H.J.S CONDIMENTS LTD. 13400003-1  
Purpose : Visitor Valid From : 11/03/2024 To : 11/03/2024  
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409038018-7000

NB : Individuals - National Identity Card to be produced along with the permit  
Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle

**Board of Investment of Sri Lanka**  
Export Processing Zone - Biyagama  
Internal Request Temporary Entry Permit

Gate No. : 1 Permit No. : 0002253060

Visitors / Suppliers / Businessmen / Contractors Ref. No. :

Date of Issue : 11/03/2024 09:27AM Issued to : T.W.K.D ALDHYARATHNA  
Identification No. : 996040082V Place of Visit : H.J.S CONDIMENTS LTD. 13400003-1  
Purpose : Visitor Valid From : 11/03/2024 To : 11/03/2024  
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409038018-7000

NB : Individuals - National Identity Card to be produced along with the permit  
Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle

Figure 20 gate pass for hjs 2

**Board of Investment of Sri Lanka**  
Export Processing Zone - Biyagama  
Temporary Entry Permit

Gate No. : 1 Internal Request Permit No. : 0003942950

Visitors / Suppliers / Businessmen / Contractors Ref. No. :

Date of Issue : 10/04/2024 10:33AM Issued to : J.W.J.A.O PERERA  
Identification No. : 200032300967 Place of Visit : H.J.S CONDIMENTS LTD. 13400003-1  
Purpose : Visitor Valid From : 10/04/2024 To : 10/04/2024  
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409038018-7000

NB : Individuals - National Identity Card to be produced along with the permit  
Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle

**Board of Investment of Sri Lanka**  
Export Processing Zone - Biyagama  
Temporary Entry Permit

Gate No. : 1 Internal Request Permit No. : 0003942951

Visitors / Suppliers / Businessmen / Contractors Ref. No. :

Date of Issue : 10/04/2024 10:33AM Issued to : P.M.R.D.M.A  
Identification No. : 200032300967 Place of Visit : H.J.S CONDIMENTS LTD. 13400003-1  
Purpose : Visitor Valid From : 10/04/2024 To : 10/04/2024  
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409038018-7000

NB : Individuals - National Identity Card to be produced along with the permit  
Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle

**Board of Investment of Sri Lanka**  
Export Processing Zone - Biyagama  
Temporary Entry Permit

Gate No. : 1 Internal Request Permit No. : 0002272573

Visitors / Suppliers / Businessmen / Contractors Ref. No. :

Date of Issue : 10/04/2024 10:33AM Issued to : N.M.S.K.L.R  
Identification No. : 200131302165 Place of Visit : H.J.S CONDIMENTS LTD. 13400003-1  
Purpose : Visitor Valid From : 10/04/2024 To : 10/04/2024  
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409038018-7000

NB : Individuals - National Identity Card to be produced along with the permit  
Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle

**Board of Investment of Sri Lanka**  
Export Processing Zone - Biyagama  
Temporary Entry Permit

Gate No. : 1 Internal Request Permit No. : 0003942953

Visitors / Suppliers / Businessmen / Contractors Ref. No. :

Date of Issue : 10/04/2024 10:33AM Issued to : Dineshathilak W.S.R  
Identification No. : 996040082V Place of Visit : H.J.S CONDIMENTS LTD. 13400003-1  
Purpose : Visitor Valid From : 10/04/2024 To : 10/04/2024  
Rs.110.00/= (Inclusive of applicable VAT) VAT Reg. No. : 409038018-7000

NB : Individuals - National Identity Card to be produced along with the permit  
Vehicle - This permit must be displayed on the top left hand corner of the wind screen of the vehicle

Figure 21 Gate pass for hjs 3

## 04. Agreement with the client to get the dataset.

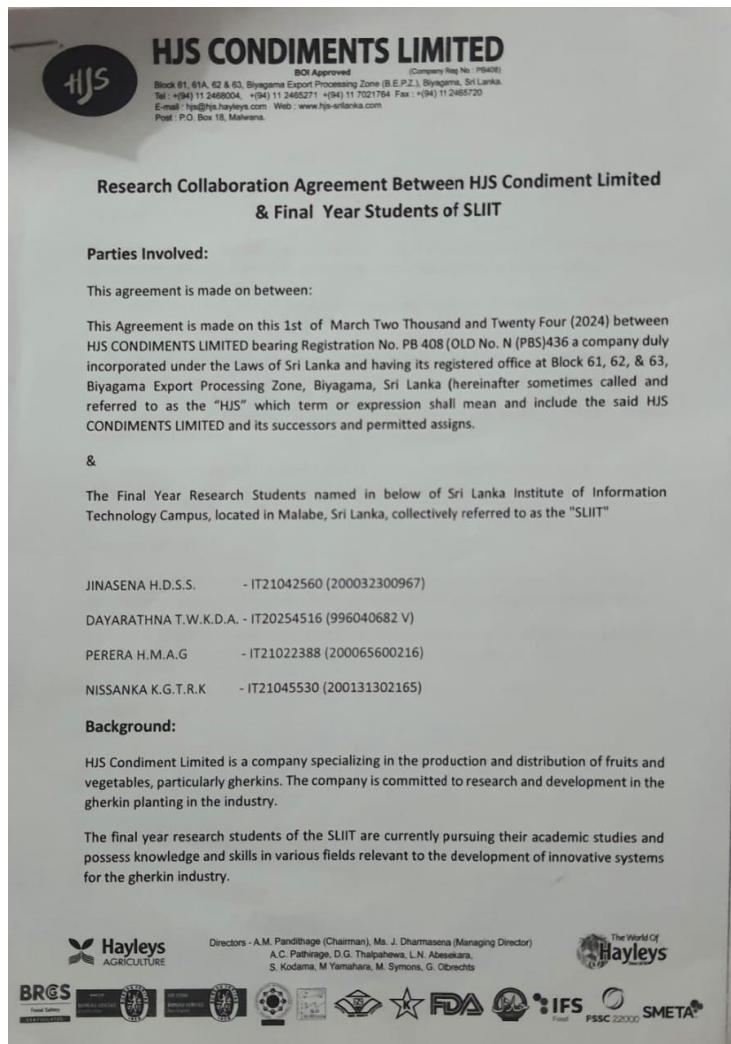


Figure 22 HJS Legal Agreement

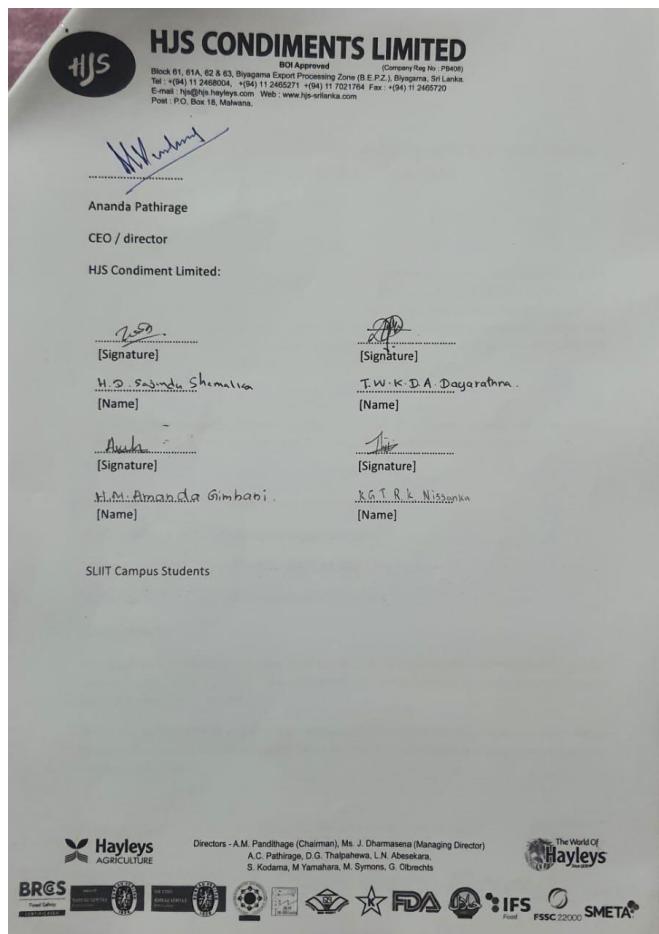


Figure 22-2 HJS Legal Agreement

## 05. MS Teams meetings and chats with the clients (Hayleys company)

**Meeting - 10th of April - 2.00 P.M.**

Varuni Wickramasinghe  
to Athula, Kumara, Shanon, skumarasinghe@agri.ruh.ac.lk, Sarath, Ananda, me ✓  
Tue, 2 Apr, 09:23

Dear All,

We have scheduled a meeting for data collection regarding the ongoing project on April 10th at 2:00 p.m.

If there is any inconvenience with the scheduled date and time, please do not hesitate to inform me so that I can make necessary adjustments.

We highly appreciate your attention and cooperation towards the success of this project.

Your participation is invaluable to us, and we look forward to productive discussions during the meeting.

Thank You & Best Regards,  
Varuni.

**From:** Varuni Wickramasinghe  
**Sent:** Tuesday, March 26, 2024 8:37 AM  
**To:** Athula Jayaratne <[athula.jayaratne@hjs.hayleys.com](mailto:athula.jayaratne@hjs.hayleys.com)>; Shanon Lee <[shanon.lee@hjs.hayleys.com](mailto:shanon.lee@hjs.hayleys.com)>; Kumara Perera <[k.perera@hjs.hayleys.com](mailto:k.perera@hjs.hayleys.com)>; skumarasinghe@agri.ruh.ac.lk  
**Cc:** Ananda Pathirage <[ananda.pathirage@hjs.hayleys.com](mailto:ananda.pathirage@hjs.hayleys.com)>; sajindu shamalka <[sajindushamalka@gmail.com](mailto:sajindushamalka@gmail.com)>  
**Subject:** Assistance for Research

Figure 23 Mail with hjs madam 1

**From:** Varuni Wickramasinghe  
**Sent:** Tuesday, March 26, 2024 8:37 AM  
**To:** Athula Jayaratne <[athula.jayaratne@hjs.hayleys.com](mailto:athula.jayaratne@hjs.hayleys.com)>; Shanon Lee <[shanon.lee@hjs.hayleys.com](mailto:shanon.lee@hjs.hayleys.com)>; Kumara Perera <[k.perera@hjs.hayleys.com](mailto:k.perera@hjs.hayleys.com)>; skumarsinghe@agri.ruh.ac.lk  
**Cc:** Ananda Pathirage <[ananda.pathirage@hjs.hayleys.com](mailto:ananda.pathirage@hjs.hayleys.com)>; sajindu shamalka <[sajindushamalka@gmail.com](mailto:sajindushamalka@gmail.com)>  
**Subject:** Assistance for Research

Dear All,

In view of improving marketing and cultivation aspects of the gherkins business, we are involved in, Mr. Pathirage has contacted a doctor attached to SLIT to develop an app. Accordingly, they have appointed a team of students to develop the software. This project will be done completely free of charge. Initially, the team needs to gather information in different areas and Mr. Pathirage has nominated you to provide the details as listed below.

I have been appointed to coordinate the project and I will connect you with the students who have been nominated for a particular subject.

Kindly contact me to facilitate this project since Mr. Pathirage wants to complete this project within a period of the next three months, commencing from the 1<sup>st</sup> of April.

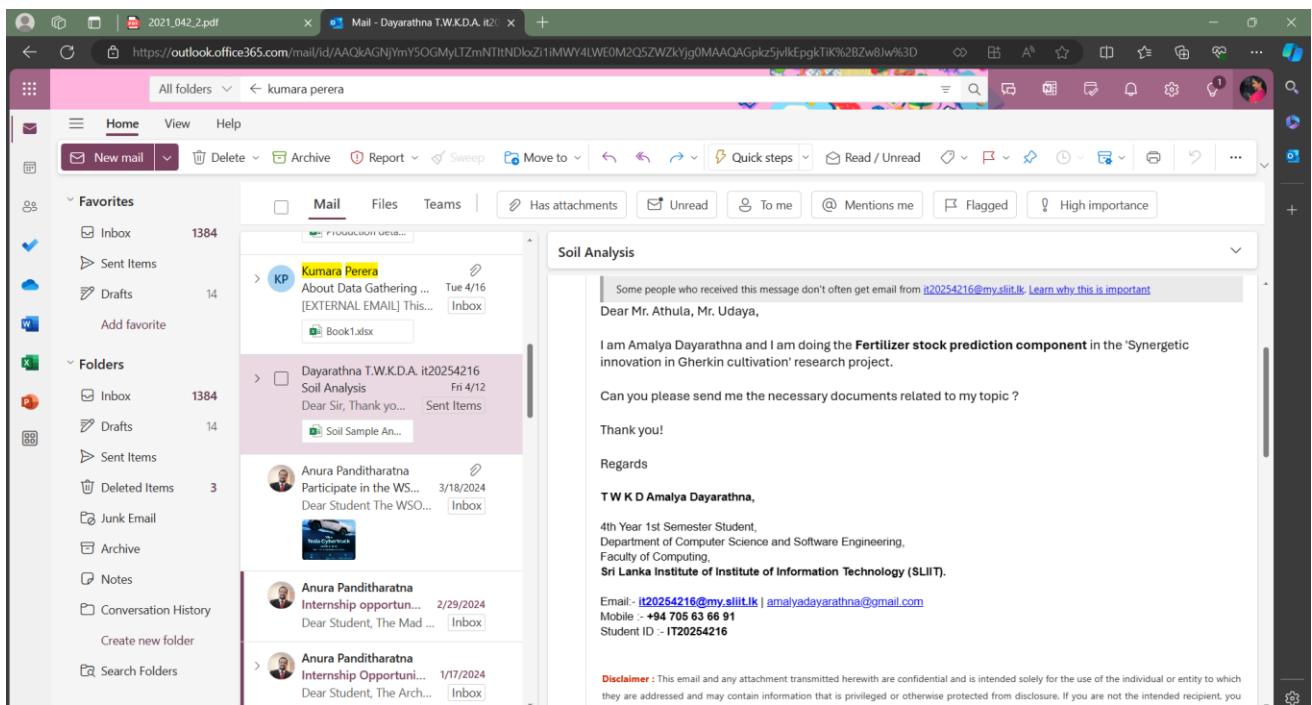
Required Data	Recommended Supervisor
<b>Smart Pest Identification and solution system</b> <ul style="list-style-type: none"> <li>Pest Images, Name &amp; details</li> <li>How to avoid pest what are the solution</li> <li>Pest growth</li> </ul>	Mr. Athula & Mr. Kumarasinghe
<b>Fertilizer Stock Prediction, Optimization and Maintenance</b> <ul style="list-style-type: none"> <li>Details of fertilizers currently using</li> <li>Name, price, amounts per crop, crop state of using that fertilizer type, time period that have to use that fertilizer</li> <li>Fertilizer percentages containing that fertilizer</li> <li>Fertilizer percentages in the soil of farms ( lab reports or something )</li> <li>Soil types in the farms</li> </ul>	Mr. Kumara

Figure 24 mail with hjs madam

**From:** Varuni Wickramasinghe  
**Sent:** Tuesday, March 26, 2024 8:37 AM  
**To:** Athula Jayaratne <[athula.jayaratne@hjs.hayleys.com](mailto:athula.jayaratne@hjs.hayleys.com)>; Shanon Lee <[shanon.lee@hjs.hayleys.com](mailto:shanon.lee@hjs.hayleys.com)>; Kumara Perera <[k.perera@hjs.hayleys.com](mailto:k.perera@hjs.hayleys.com)>; skumarsinghe@agri.ruh.ac.lk  
**Cc:** Ananda Pathirage <[ananda.pathirage@hjs.hayleys.com](mailto:ananda.pathirage@hjs.hayleys.com)>; sajindu shamalka <[sajindushamalka@gmail.com](mailto:sajindushamalka@gmail.com)>  
**Subject:** Assistance for Research

<ul style="list-style-type: none"> <li>Pest growth</li> </ul>	
<b>Fertilizer Stock Prediction, Optimization and Maintenance</b> <ul style="list-style-type: none"> <li>Details of fertilizers currently using</li> <li>Name, price, amounts per crop, crop state of using that fertilizer type, time period that have to use that fertilizer</li> <li>Fertilizer percentages containing that fertilizer</li> <li>Fertilizer percentages in the soil of farms ( lab reports or something )</li> <li>Soil types in the farms</li> </ul>	Mr. Kumara
<b>Disease identification and management system</b> <ul style="list-style-type: none"> <li>Details of gherkin plant diseases.</li> <li>Images of different diseases infected leaves.</li> <li>Details of each diseases Impact levels for the plant.</li> <li>Each diseases different growing details and images of different stages.</li> <li>Disease types details and images.</li> <li>Details of solutions for each diseases.</li> </ul>	Mr. Athula & Mr. Kumarasinghe
<b>Market Price Prediction</b> <ul style="list-style-type: none"> <li>Previous Market prices data</li> <li>Conditions for market prices</li> <li>Export prices</li> <li>Whether conditions</li> <li>Exported country's</li> <li>Exported amounts</li> <li>Exported seasons</li> <li>Global supply and demand</li> <li>Economic factors</li> </ul>	Mr. Shanon

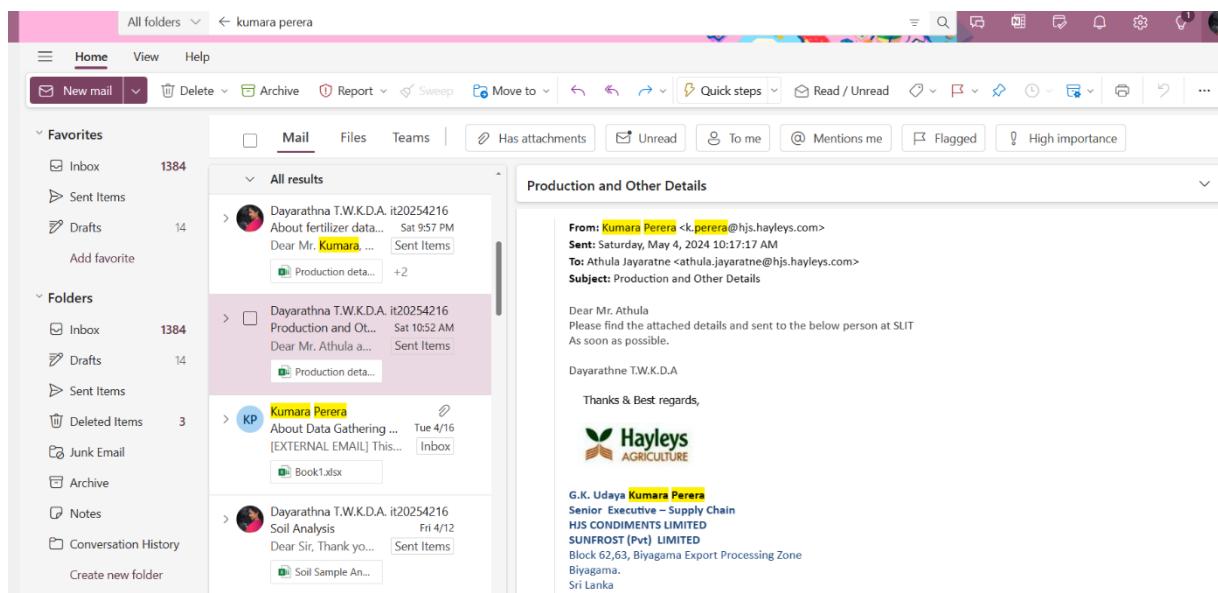
Figure 25 mail with hjs madam



The screenshot shows the Microsoft Outlook inbox for the user 'kumara perera'. The left sidebar lists various folders like Favorites, Folders, and Conversations. The main pane displays several emails:

- An email from 'Kumara Perera' with subject 'About Data Gathering ...' dated Tue 4/16. It includes attachments 'Book1.xlsx' and 'Soil Sample An...'. The body text says: 'Some people who received this message don't often get email from [H20254216@my.sliit.lk](#). Learn why this is important'.
- An email from 'Dayarathna T.W.K.D.A. it20254216' with subject 'Soil Analysis' dated Fri 4/12. It includes attachments 'Book1.xlsx' and 'Soil Sample An...'. The body text says: 'Dear Mr. Athula, Mr. Udaya,' and 'I am Amalya Dayarathna and I am doing the **Fertilizer stock prediction component** in the 'Synergetic innovation in Gherkin cultivation' research project.'
- An email from 'Anura Panditharathna' with subject 'Participate in the WS...' dated 3/18/2024. It includes attachments 'Book1.xlsx' and 'Soil Sample An...'. The body text says: 'Can you please send me the necessary documents related to my topic ?'
- An email from 'Anura Panditharathna' with subject 'Internship opportuni...' dated 2/29/2024. It includes attachments 'Book1.xlsx' and 'Soil Sample An...'. The body text says: 'Thank you!'
- An email from 'Anura Panditharathna' with subject 'Internship Opportuni...' dated 1/17/2024. It includes attachments 'Book1.xlsx' and 'Soil Sample An...'. The body text says: 'Regards'
- A message from 'TW K D Amalya Dayarathna' introducing herself as a 4th Year 1st Semester Student at SLIIT.
- Information about her contact details: Email - [H20254216@my.sliit.lk](#) | [amalyadayarathna@gmail.com](#), Mobile - +94 705 63 66 91, Student ID - IT20254216.
- A disclaimer at the bottom of the message.

Figure 26-1 Mails to hjs for data collection



The screenshot shows the Microsoft Outlook inbox for the user 'kumara perera'. The left sidebar lists various folders like Favorites, Folders, and Conversations. The main pane displays several emails:

- An email from 'Dayarathna T.W.K.D.A. it20254216' with subject 'About fertilizer data...' dated Sat 9:57 PM. It includes attachments 'Production data...' and '+2'. The body text says: 'Dear Mr. **Kumara** ... Sent Items'.
- An email from 'Dayarathna T.W.K.D.A. it20254216' with subject 'Production and Ot...' dated Sat 10:52 AM. It includes attachments 'Production data...'. The body text says: 'Dear Mr. Athula a... Sent Items'.
- An email from 'Kumara Perera' with subject 'About Data Gathering ...' dated Tue 4/16. It includes attachments 'Book1.xlsx'. The body text says: 'Some people who received this message don't often get email from [H20254216@my.sliit.lk](#). Learn why this is important'.
- An email from 'Dayarathna T.W.K.D.A. it20254216' with subject 'Soil Analysis' dated Fri 4/12. It includes attachments 'Book1.xlsx' and 'Soil Sample An...'. The body text says: 'Dear Sir, Thank yo... Sent Items'.

To the right of the inbox, there is a 'Production and Other Details' pane showing the following information:

**From:** Kumara Perera <[k.perera@hjs.hayleys.com](#)>  
**Sent:** Saturday, May 4, 2024 10:17:17 AM  
**To:** Athula Jayaratne <[athula.jayaratne@hjs.hayleys.com](#)>  
**Subject:** Production and Other Details

Dear Mr. Athula,  
 Please find the attached details and sent to the below person at SLIT As soon as possible.

Dayarathne T.W.K.D.A

Thanks & Best regards,

**Hayleys**  
 AGRICULTURE

**G.K. Udaya Kumara Perera**  
 Senior Executive – Supply Chain  
 HJS CONDIMENTS LIMITED  
 SUNFROST (Pvt) LIMITED  
 Block 62,63, Biyagama Export Processing Zone  
 Biyagama,  
 Sri Lanka  
 Mobile: +94 7771234567

Figure 26-2 Mails to hjs for data collection

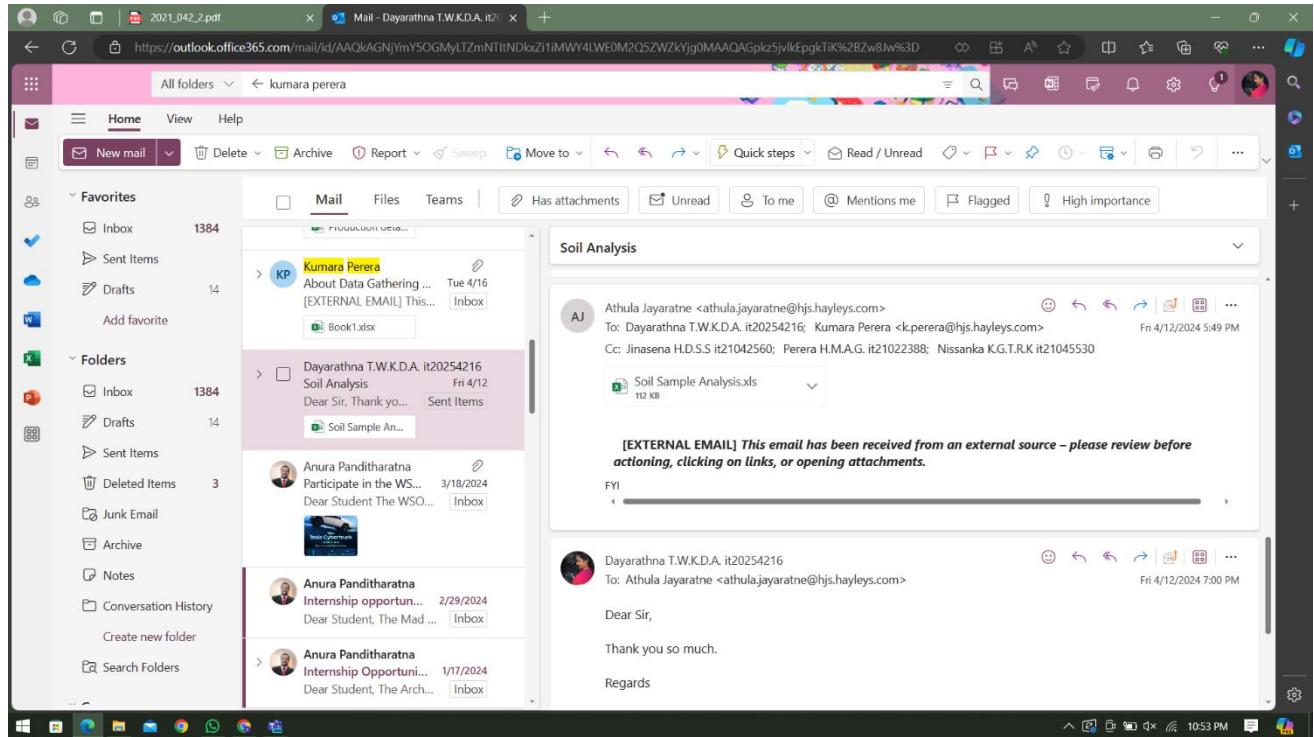


Figure 26-3 Mails to hjs for data collection

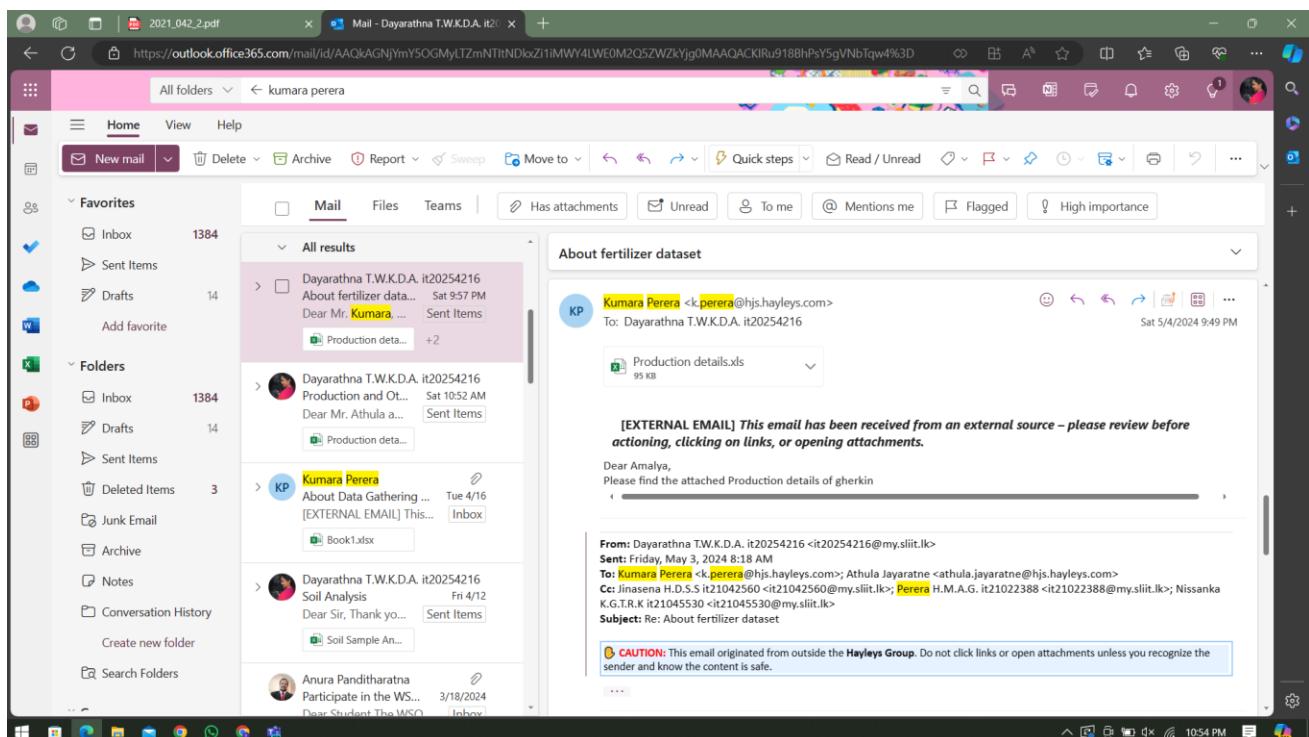


Figure 26-4 Mails to hjs for data collection

## 06. MS team work planner

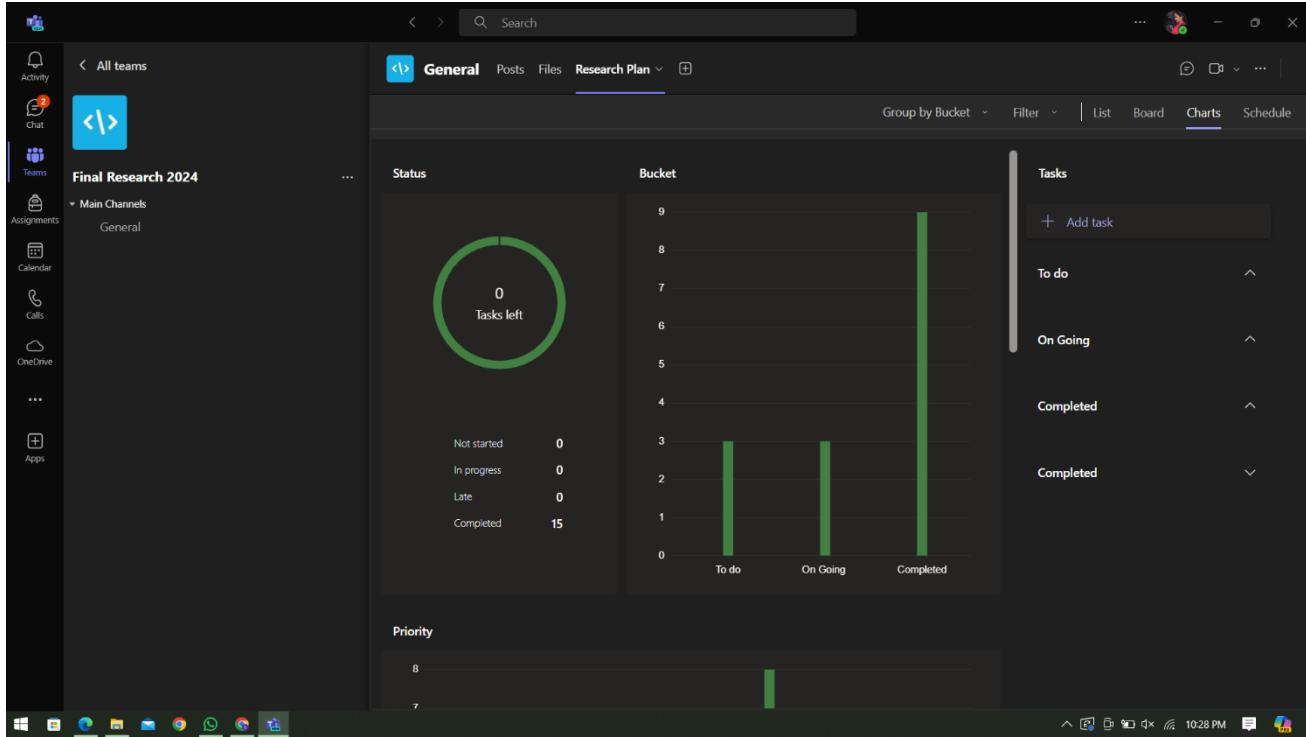


Figure 27-1 Teams work planner

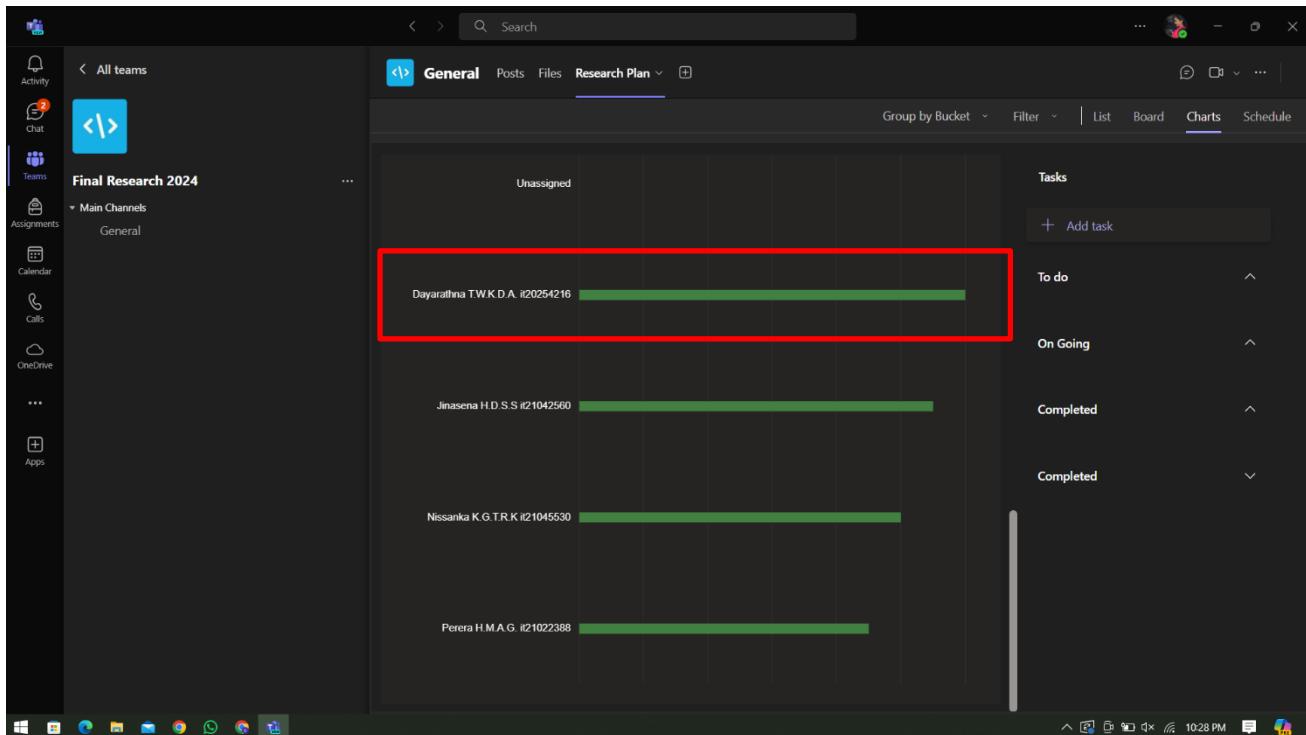


Figure 27-2 Teams work planner

## 07. Updated Gantt chart of finalize Design & implementation phases



Figure 28 Gantt chart

## 08. Data Collection - Field Visits

We went Nikaweratiya to collect data and field visit.

