

MEDISAFE - STAY AWAY AND DEFEAT DISEASE

2022 - 143

Project Status Document- Individual

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Sri Lanka

Nov 2022

Declaration

I declare that this is my own work and this proposal 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 our 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.

Name	Student Id	Signature
Thennakoon T.M.B.C.K	IT18077698	

The supervisor/s should certify the proposal report with the following declaration.

The above candidates are carrying out research for the undergraduate Dissertation under my supervision.

.....
Signature of the Supervisor

.....
Date

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1. Updated Gantt chart

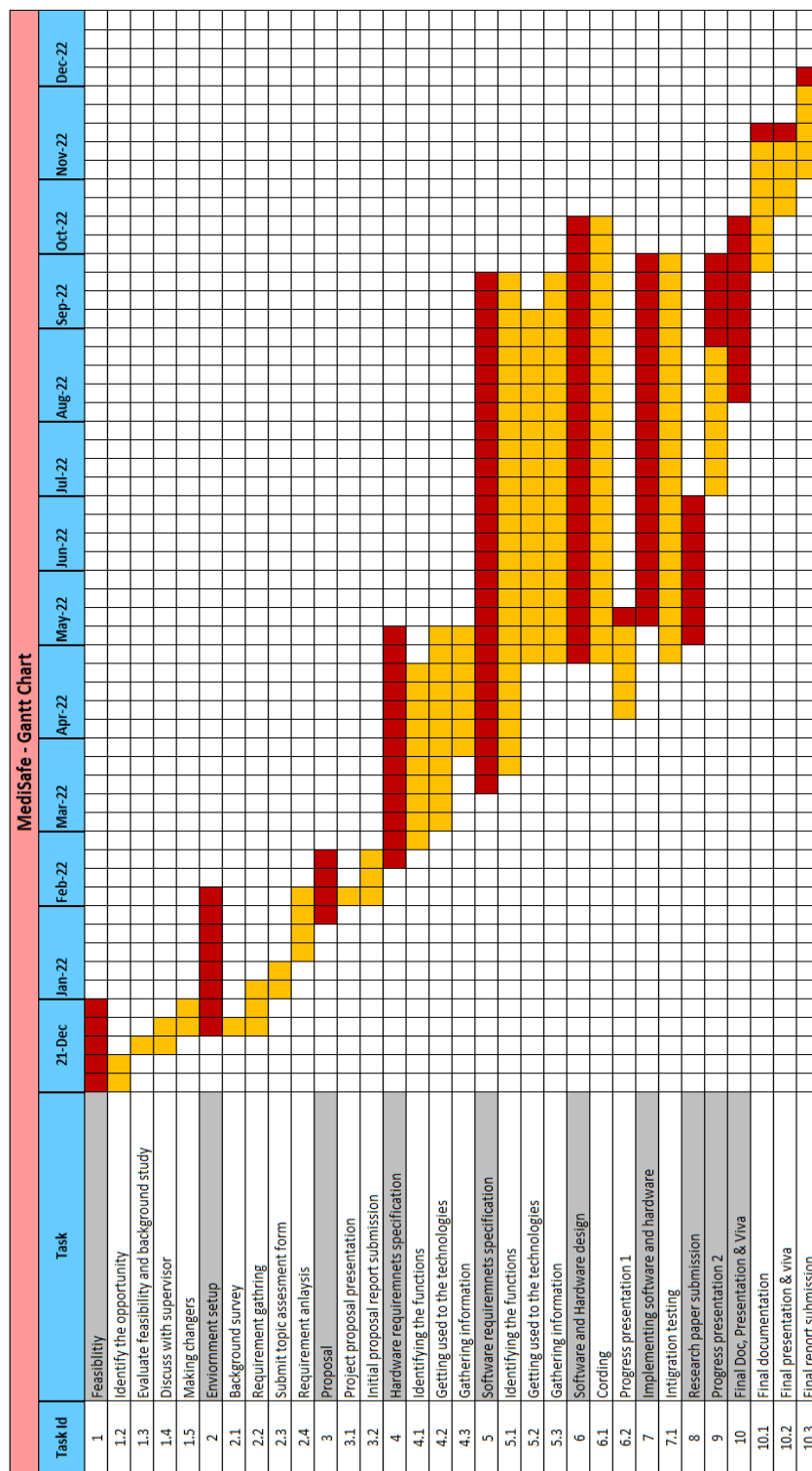


Figure 1-1: Gantt chart

2. Work breakdown structure

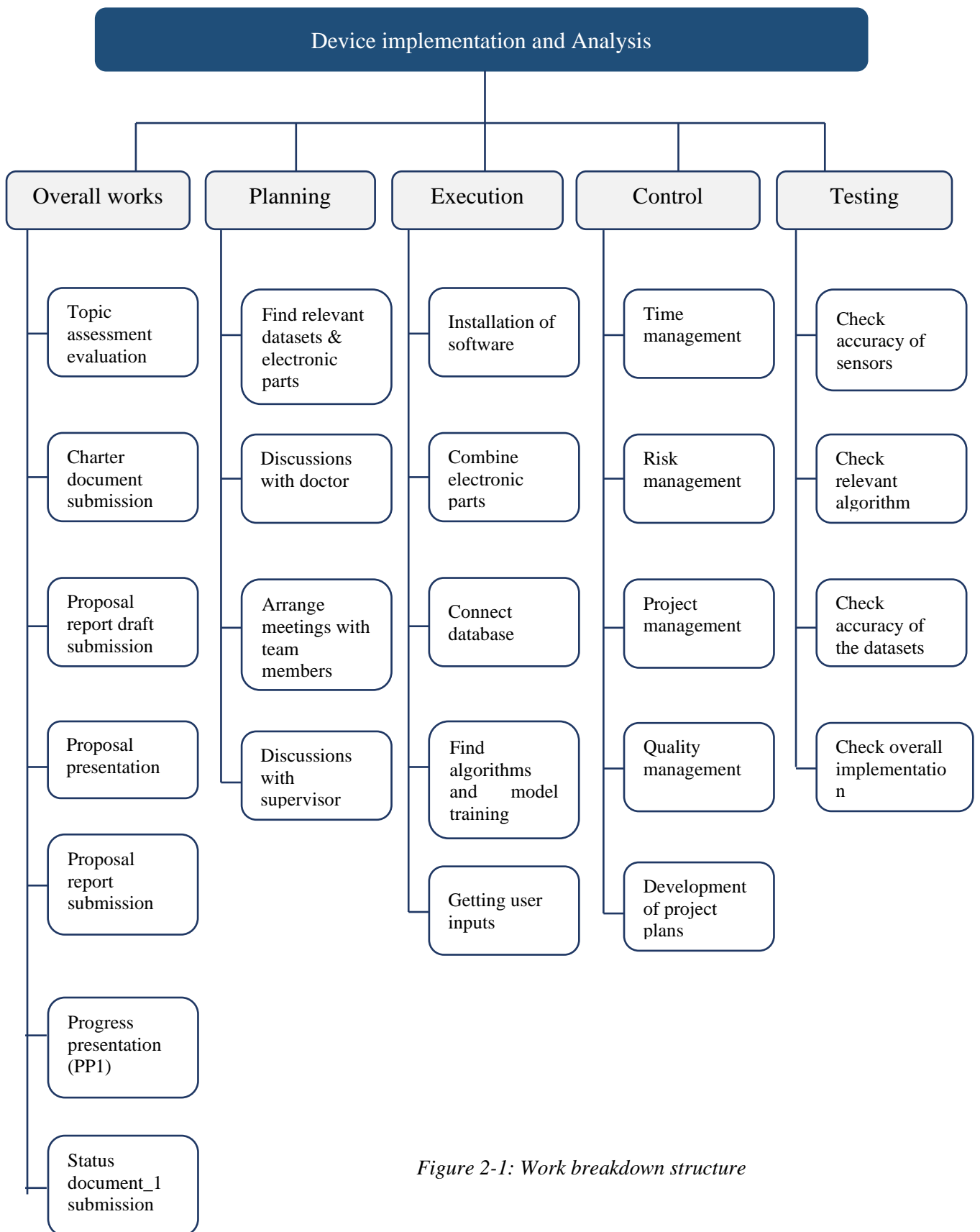


Figure 2-1: Work breakdown structure

3. Project management tool

3.1 Microsoft teams

- Supervisors group

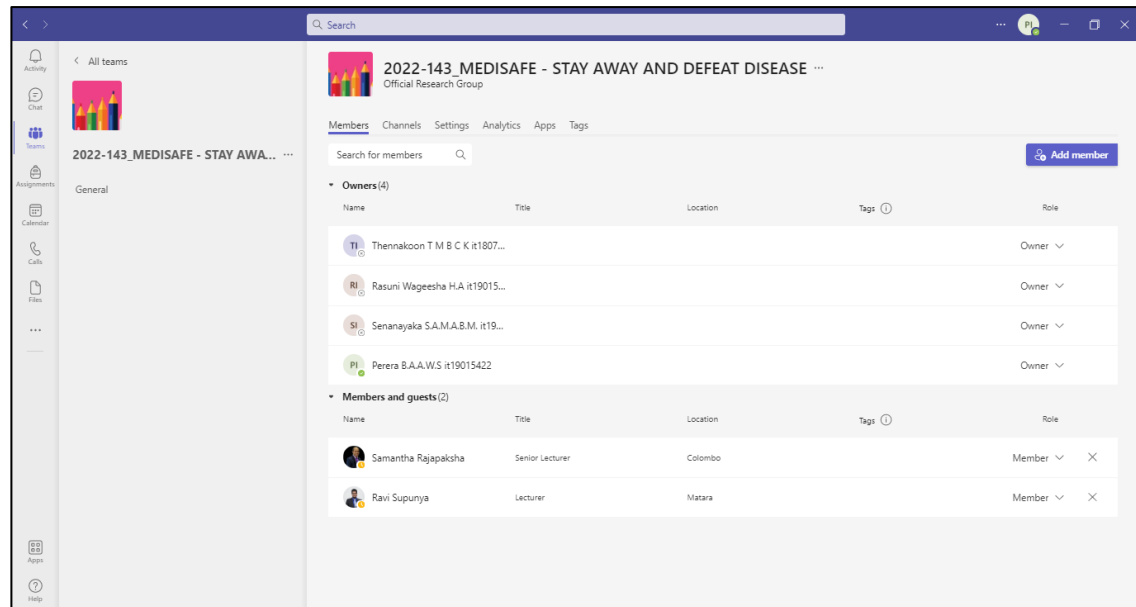


Figure 3-1: Supervisors Microsoft teams group

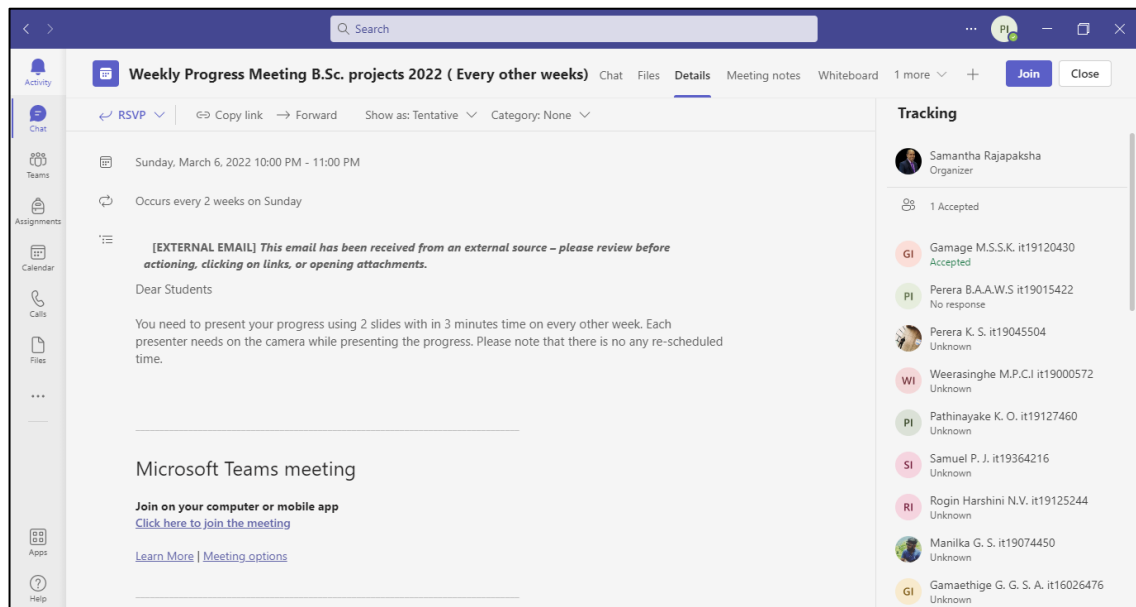


Figure 3-2: Co-supervisor progress checking group

- **Research team members**

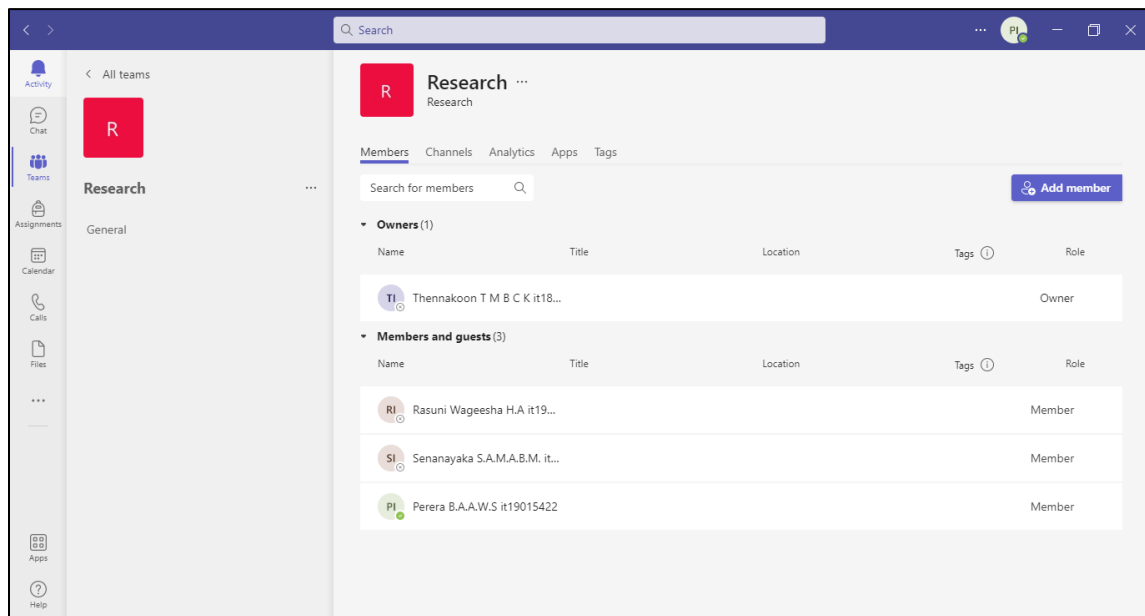
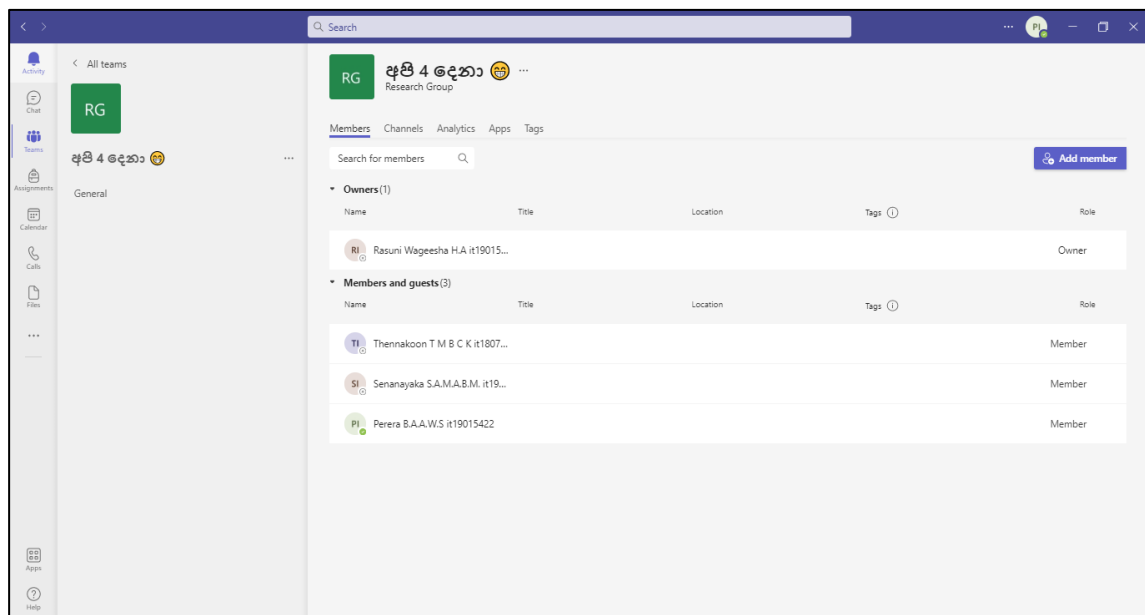


Figure 3-3: Student Microsoft teams group

➤ Project milestones

- Main milestone

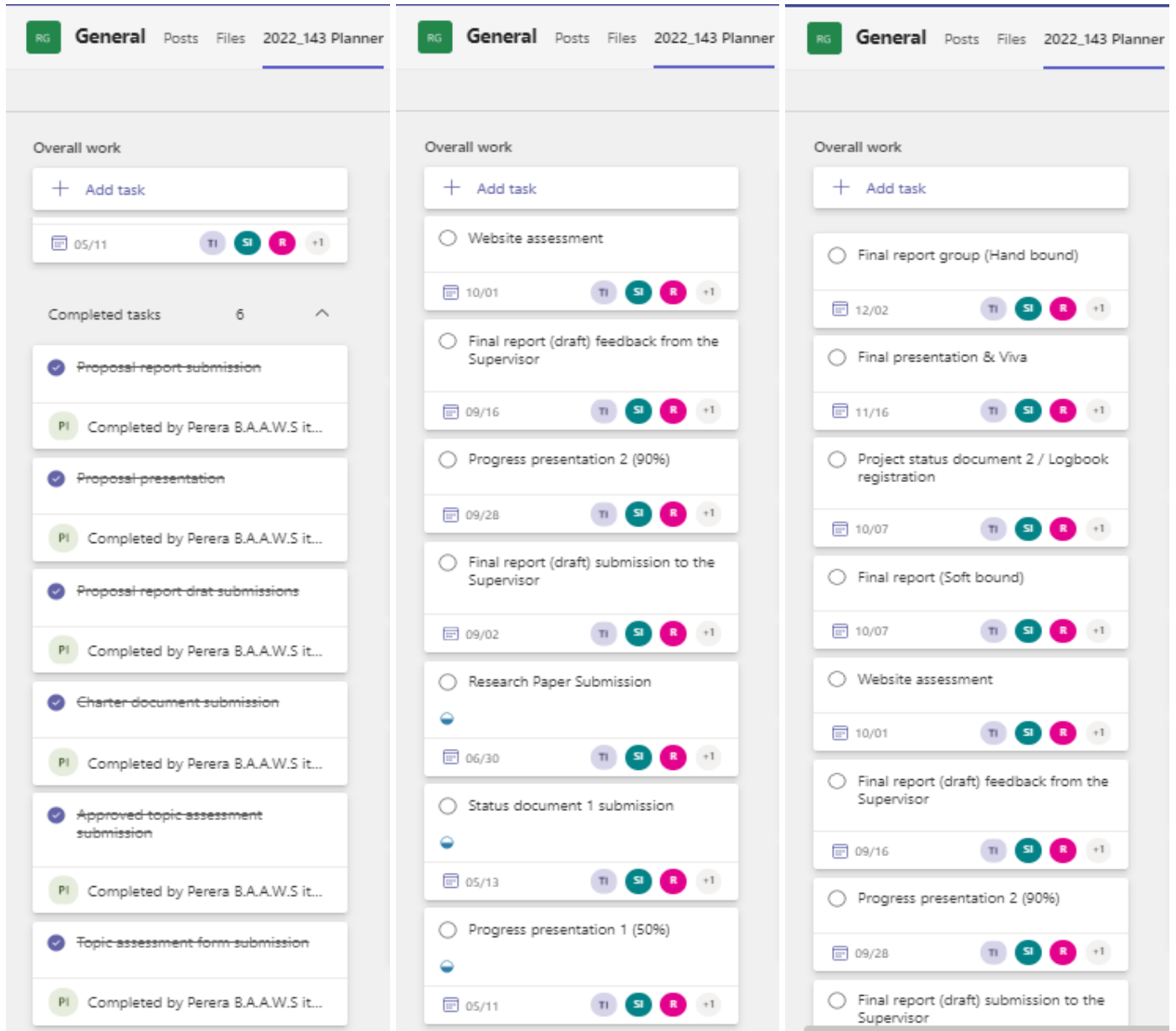


Figure 3-4: Overall workflow

- **Individual milestone**

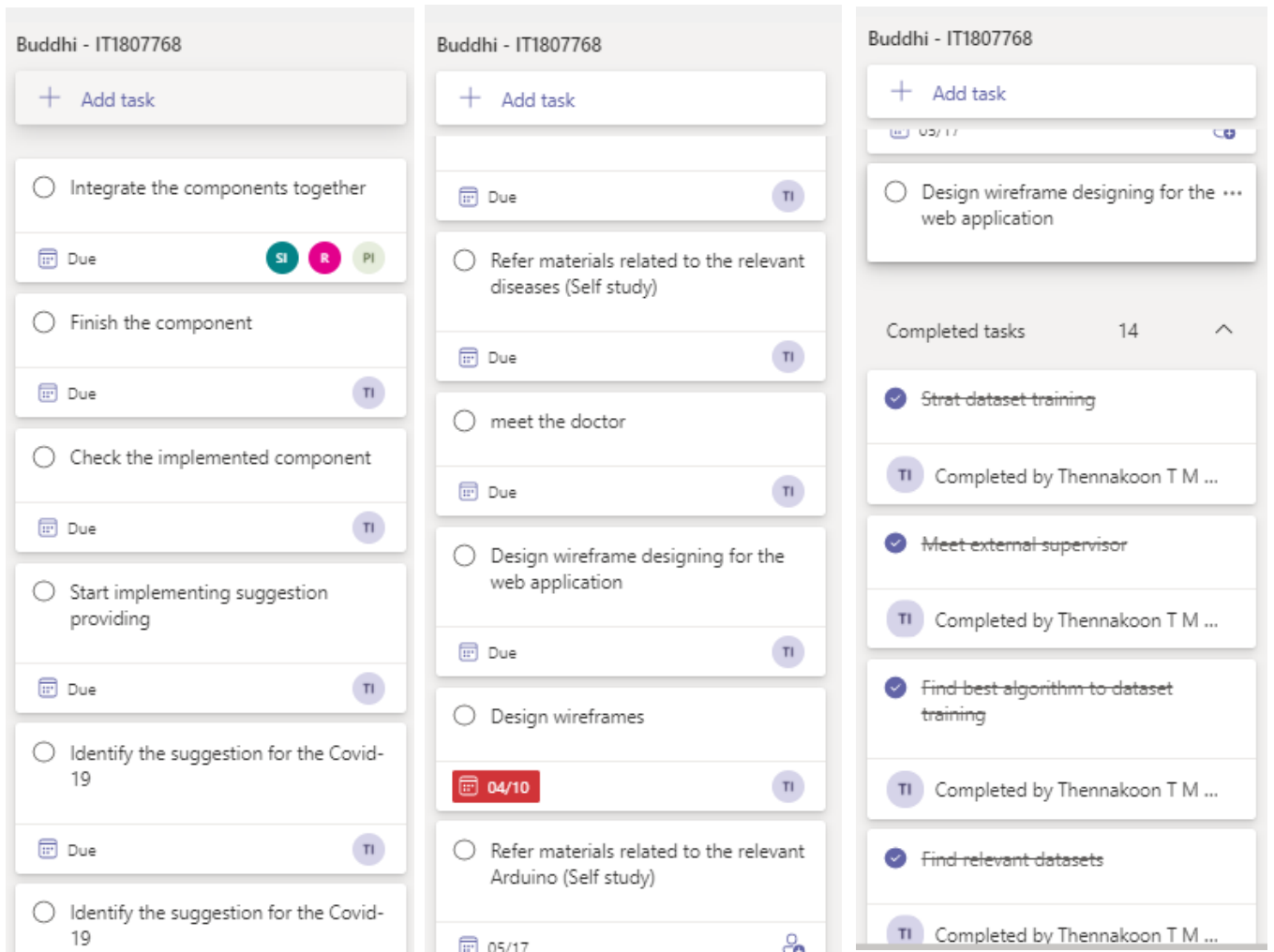


Figure 3-5: Individual workflow_1

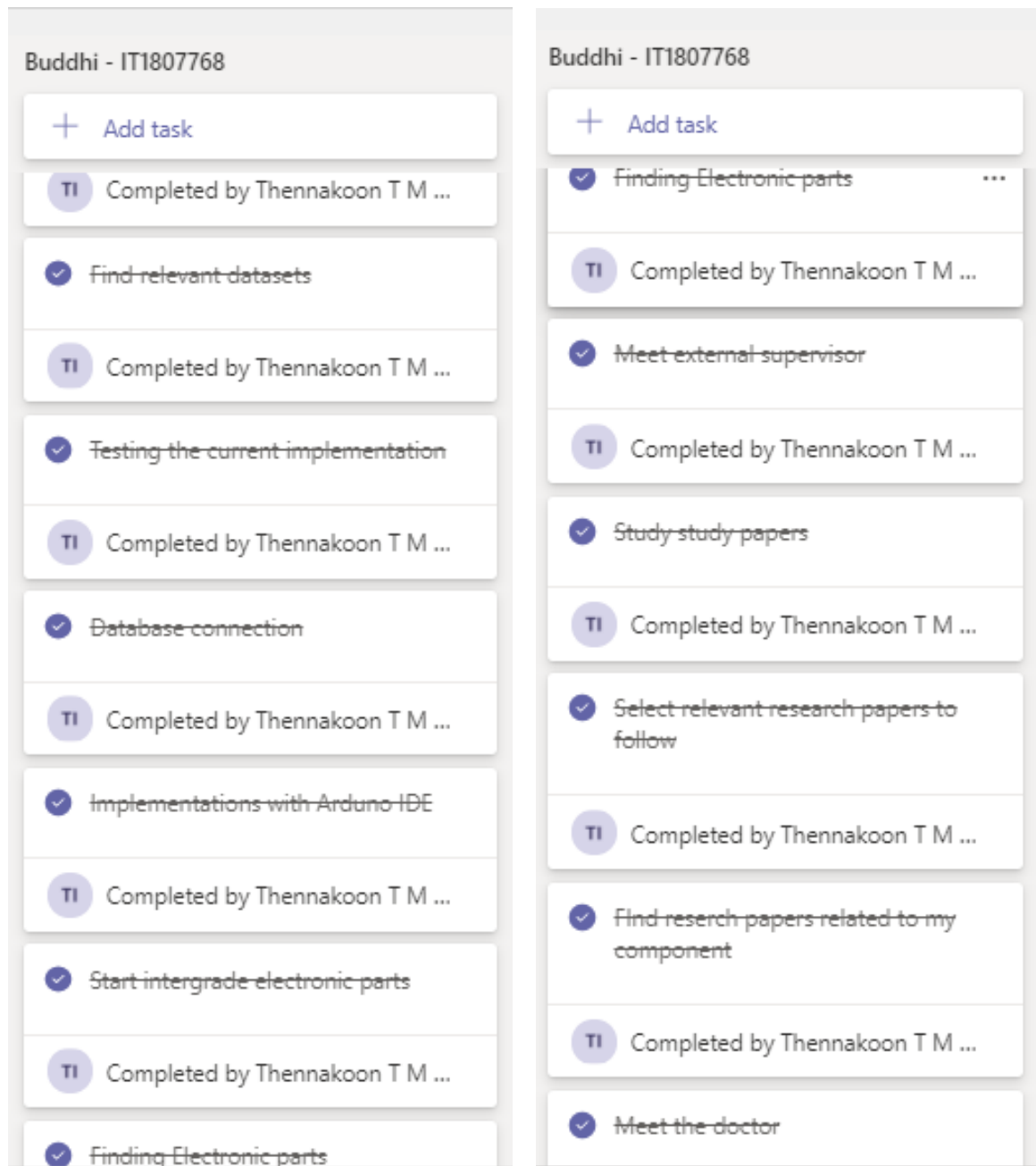


Figure 3-6: Individual workflow_2

Buddhi - IT1807768

+ Add task

✓ Start implementing suggestion providing

TI Completed by Thennakoon T M ...

✓ Identify the suggestion for the Covid-19

TI Completed by Thennakoon T M ...

✓ Identify the suggestion for the Covid-19

TI Completed by Thennakoon T M ...

✓ Refer materials related to the relevant diseases (Self study)

Buddhi - IT1807768

+ Add task

TI Completed by Thennakoon T M ...

✓ Design wireframes

TI Completed by Thennakoon T M ...

✓ Strat dataset training

TI Completed by Thennakoon T M ...

✓ Meet external supervisor

TI Completed by Thennakoon T M ...

✓ Find best algorithm to dataset training



Buddhi - IT1807768

+ Add task

✓ Testing the current implementation

TI Completed by Thennakoon T M ...

✓ Database connection

TI Completed by Thennakoon T M ...

✓ Implementations with Arduino IDE

TI Completed by Thennakoon T M ...

✓ Start intergrade electronic parts

TI Completed by Thennakoon T M ...

Buddhi - IT1807768

+ Add task

TI Completed by Thennakoon T M ...

✓ Finding Electronic parts

TI Completed by Thennakoon T M ...

✓ Meet external supervisor

TI Completed by Thennakoon T M ...

✓ Study study papers

TI Completed by Thennakoon T M ...

✓ Select relevant research papers to follow

➤ Task analysis

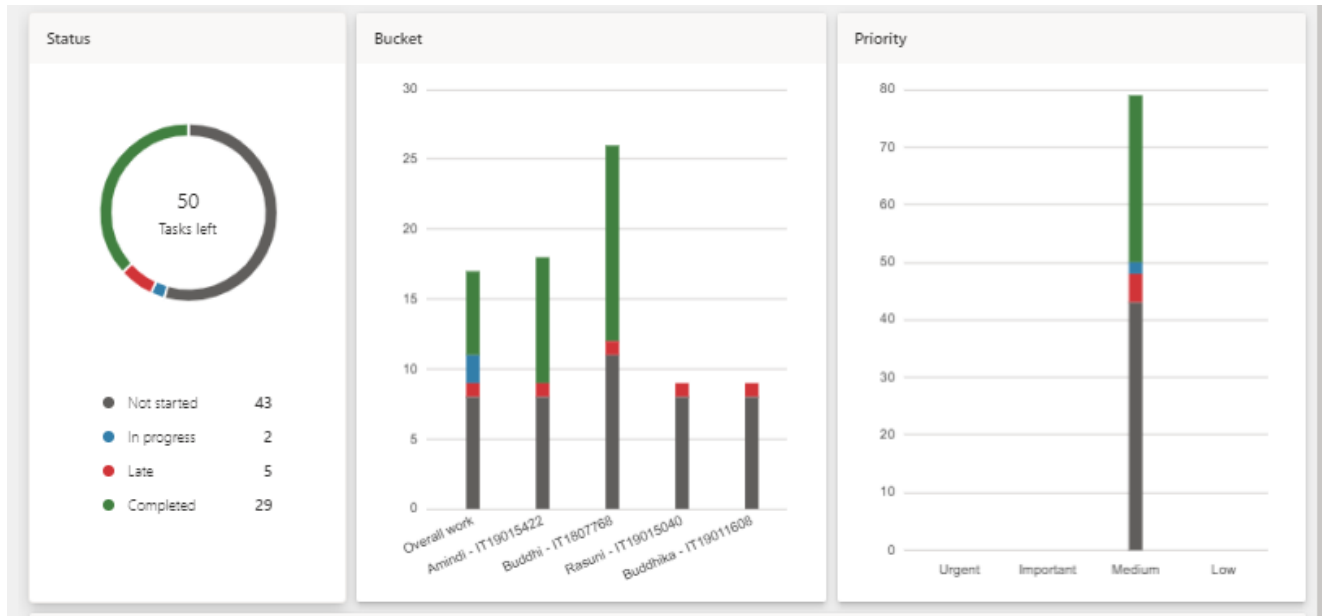
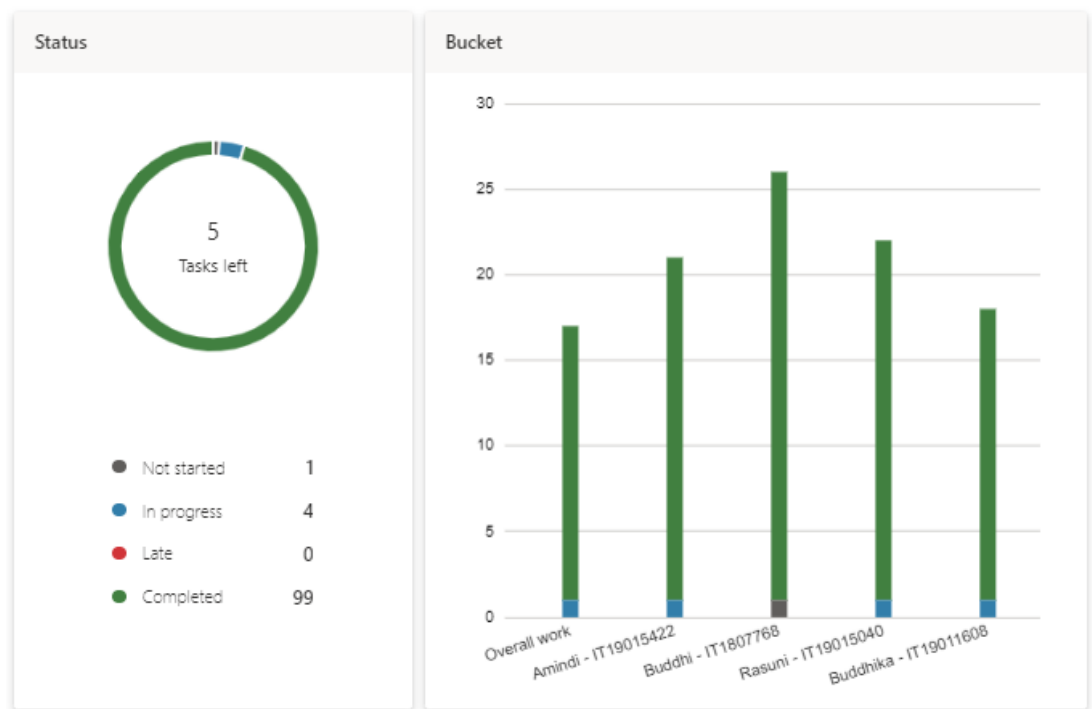


Figure 3-7: Task analysis



3.2 GitLab usage

- **Project Overview**

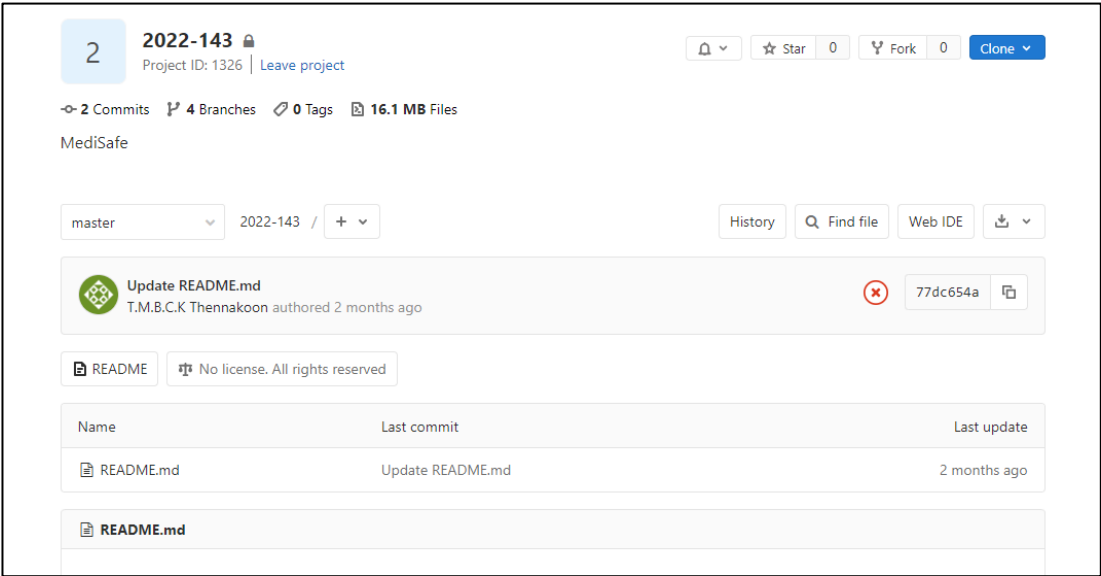


Figure 3-8: Project overview

- **Project members**

Project members

Members can be added by project *Maintainers* or *Owners*

Members of **2022-143** 7

Find existing members by name Sort by Name, ascending

	Perera B.A.A.W.S @IT19015422_Perera_B.A.A.W.S It's you	Developer	Leave
Given access 2 months ago · Expires in over 2 years			
	Rasuni Wageesha H.A @IT19015040_Rasuni_Wageesha_H.A	Developer	
Given access 2 months ago · Expires in over 2 years			
	Ravi Supunya @Ravi.s	Reporter	
Given access 2 months ago · Expires in over 2 years			
	RP Team @RPTeam	Reporter	
Given access 1 month ago · Expires in over 2 years			
	Senanayaka S.A.M.A.B.M @IT19011608_Senanayaka_S.A.M.A.B.M	Developer	
Given access 2 months ago · Expires in over 2 years			
	T.M.B.C.K Thennakoon @IT18077698_Thennakoon_T.M.B.C.K · 2022-143	Owner	
Given access 2 months ago			
	Udugoda Uduporawage Samantha Kumara Rajapaksha @samantha	Reporter	
Given access 2 months ago · Expires in over 2 years			

Figure 3-9: Project members

- Created branches

Active branches

IT19015040-lungDisease fdc9c755 · Add lung diseases Files · 3 hours ago	0 1	Merge request	Compare		
IT19015422-diseaseAnalysis a551f995 · Disease analysis files added · 4 hours ago	0 1	Merge request	Compare		
IT19011608-spreadRate 4d16f56a · Add spreadRate files · 4 hours ago	0 1	Merge request	Compare		
master default protected 77dc654a · Update README.md · 2 months ago					
IT18077698_deviceImplementationAnalysis 77dc654a · Update README.md · 2 months ago	0 0	Merge request	Compare		

Figure 3-10: Branches

- **Repository files**

Name	Last commit	Last update
..		
📁 .ipynb_checkpoints	add the device implementation files	44 minutes ago
📁 __pycache__	add the device implementation files	44 minutes ago
📄 Runcovid.py	add the device implementation files	44 minutes ago
📄 TestCode.ipynb	add the device implementation files	44 minutes ago
📄 covid.py	add the device implementation files	44 minutes ago
📄 covid_model.sav	add the device implementation files	44 minutes ago
📄 data_set.csv	add the device implementation files	44 minutes ago
📄 model.sav	add the device implementation files	44 minutes ago

Figure 3-11: Repository files

4. Test results & how system testes

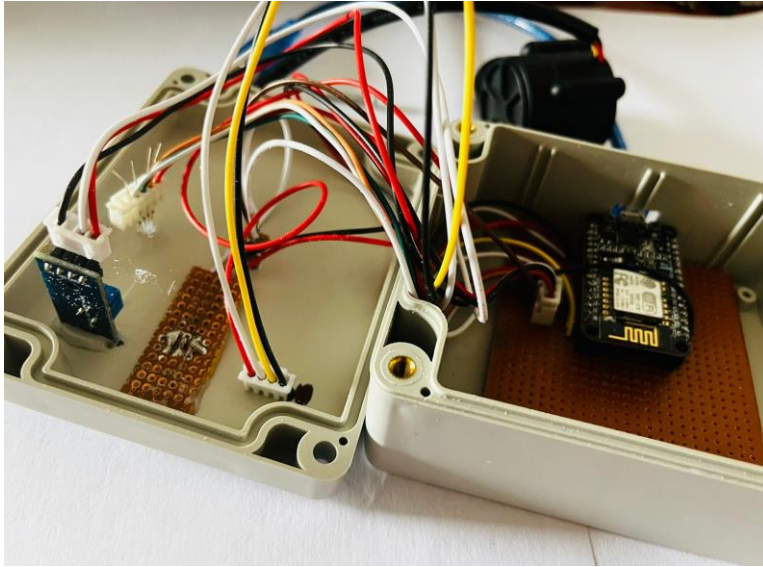
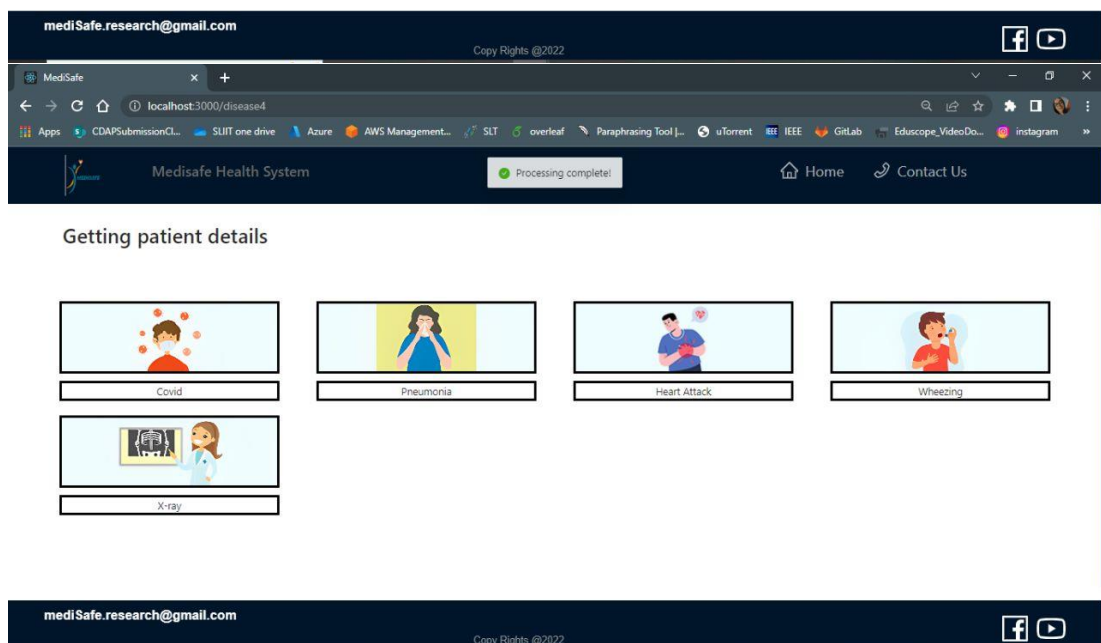
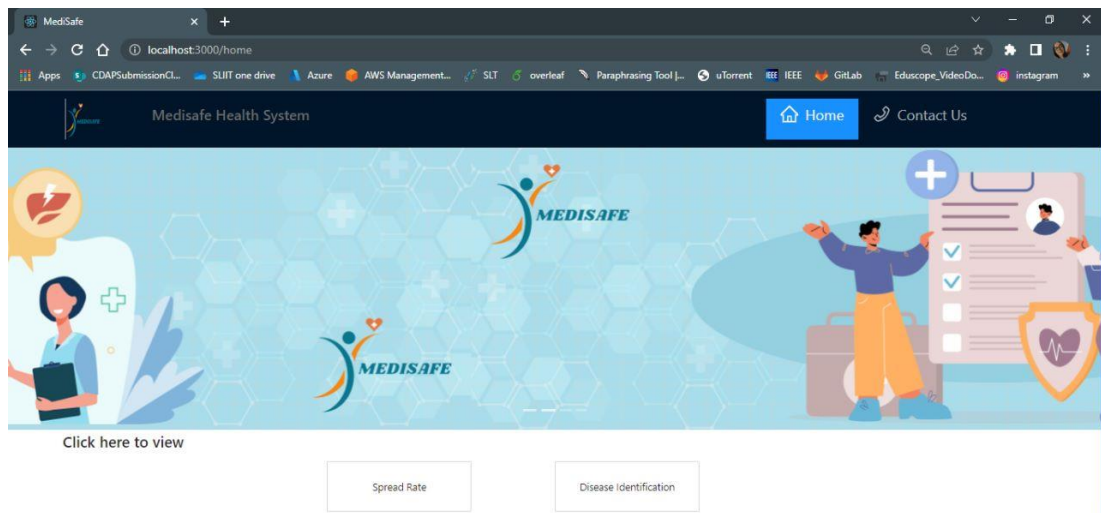


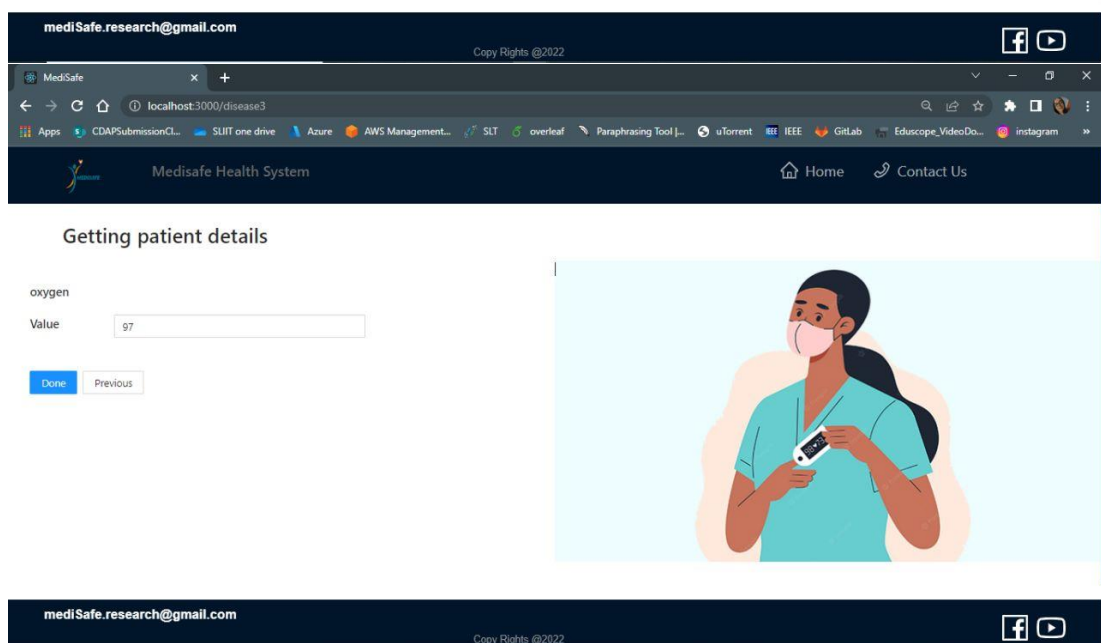
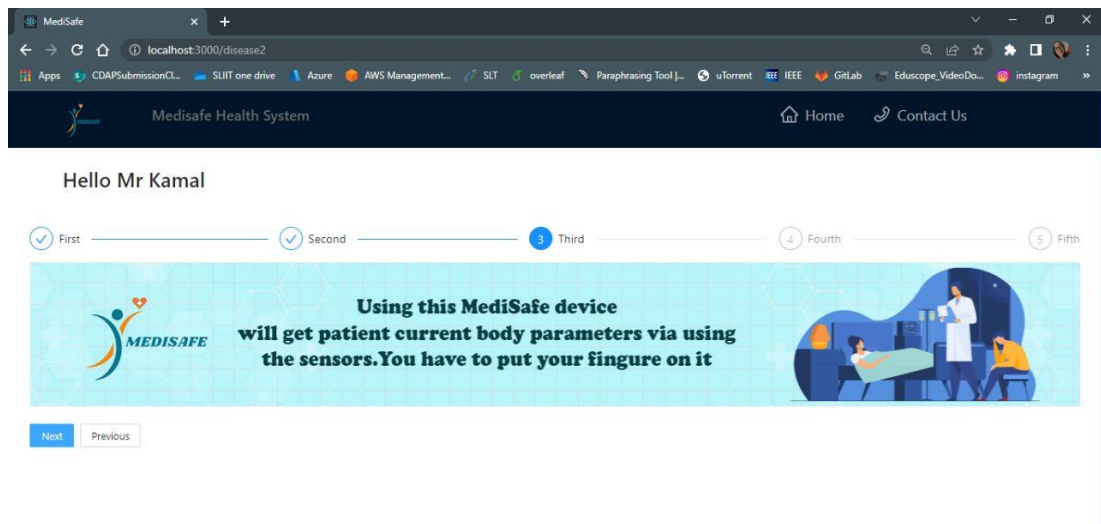
Figure 4-1: Implemented device

```
C:\WINDOWS\system32\cmd.exe

(covid) C:\Users\user>cd C:\Users\user\Desktop\24-04-2022\covid
(covid) C:\Users\user\Desktop\24-04-2022\covid>C:
(covid) C:\Users\user\Desktop\24-04-2022\covid>python Runcovid.py
type oxygen level : 90
type your pulse : 96
type your Temperature : 90
confidence : 100.0 %
The probability of having a covid infection is 35.36000000000004%
Traceback (most recent call last):
  File "Runcovid.py", line 1, in <module>
    from covid import predictc
ImportError: cannot import name 'predictc' from 'covid' (C:\Users\user\Desktop\24-04-2022\covid\covid.py)
(covid) C:\Users\user\Desktop\24-04-2022\covid>
```

Figure 4-2: Test result





MediSafe Health System

Home Contact Us

User Details

Reference Number 94944dce-81cb-4648-bb9d-b369c72a52dd

Enter Name

Enter Age

Enter Gender

Next

mediSafe.research@gmail.com

Copy Rights @2022

MediSafe Health System


Home Contact Us

Getting patient details

Temperature

Value

Next



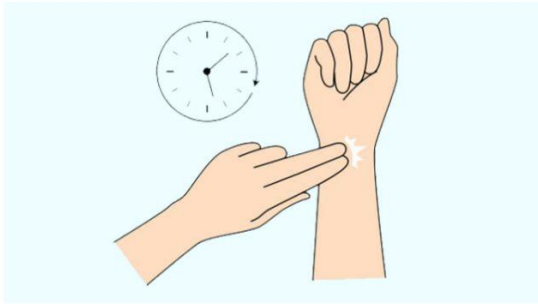
MediSafe Health System

Getting patient details

pulse

Value

[Next](#) [Previous](#)



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MediSafe Health System

Covid

Enter Oxygen Level

Enter Pulse

Enter Temperature

Risk of Covid Infection

[View Suggestions](#)

mediSafe.research@gmail.com

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5. Documentation works

Link: <https://www.overleaf.com/8442395484mzjdyqfjsvgr>

The screenshot displays the Overleaf online LaTeX editor interface. On the left, the source code is visible, showing LaTeX commands for document structure, author information, and the start of an abstract. The right pane shows the compiled PDF document. The title page of the PDF is titled "MEDISAFE - STAY AWAY AND DEFEAT DISEASE". It lists six authors with their affiliations at the Sri Lanka Institute of Information Technology (SLIIT). The abstract discusses the impact of the COVID-19 epidemic and the development of a remote patient diagnosis system based on IoT devices and predictive machine learning models. The document is structured with sections for the title, authors, abstract, and a table of contents.

Figure 5-1: Overleaf document

6. Appendixes

- Shared posts and meetings with Supervisors

The figure consists of two screenshots of a Microsoft Teams chat window. The top screenshot shows a chat with a user named Ravi Supunya. The chat history includes a post titled "Tentative Dates for RP Assessments-2022 Regular Batch" which contains a table. The table lists various assessment milestones, their dates, and the status of document submissions. Below the table, there are two replies from a user named Perera B.A.A.W.S. The first reply provides contact details for Buddhi Chamika, Rasuni Wageesha, and Amind Perera. The second reply mentions dropping an email to lecturer Mr. Samantha Rajapaksha. The bottom screenshot shows a continuation of the chat. It includes a reply from Perera B.A.A.W.S. asking about a meeting tomorrow. This is followed by a system message indicating a meeting in the "General" channel ended 5 minutes ago. Then, there are two more replies from Thennakoon T M B C K. The first reply asks if the other person is there. The second reply, dated Wednesday, December 8, 2021, asks the other person to rename their team name to include their research topic. The chat interface includes a sidebar with navigation icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Help. The top of the chat window has a search bar and a "Meet" button.

No	Assessment / Milestone	Assessing Individually/ Group	Date of assessment	Document submission Deadline	Status Allocated
1	Project discussion workshop	Group	09th November 2021		N/A
2	Online registration for the topic evaluation	Individual		12th December 2021	N/A
2.1	Topic Evaluation form submission	Group		17th December 2021	N/A
2.2	Topic Evaluation (Project pre-assessment)	Group	17th - 21st December 2021		N/A
3	Last Day of Project charter submission	Group		12th January 2022	N/A
3.1	Project Charter Sheet Submission	Individual			N/A
4	Project proposal report (draft)	Group and Individual		24th January 2022	6%
5	Project proposal presentation	Individual	1st - 3rd February 2022		6%

Figure 6-1: Shared posts and meetings_1

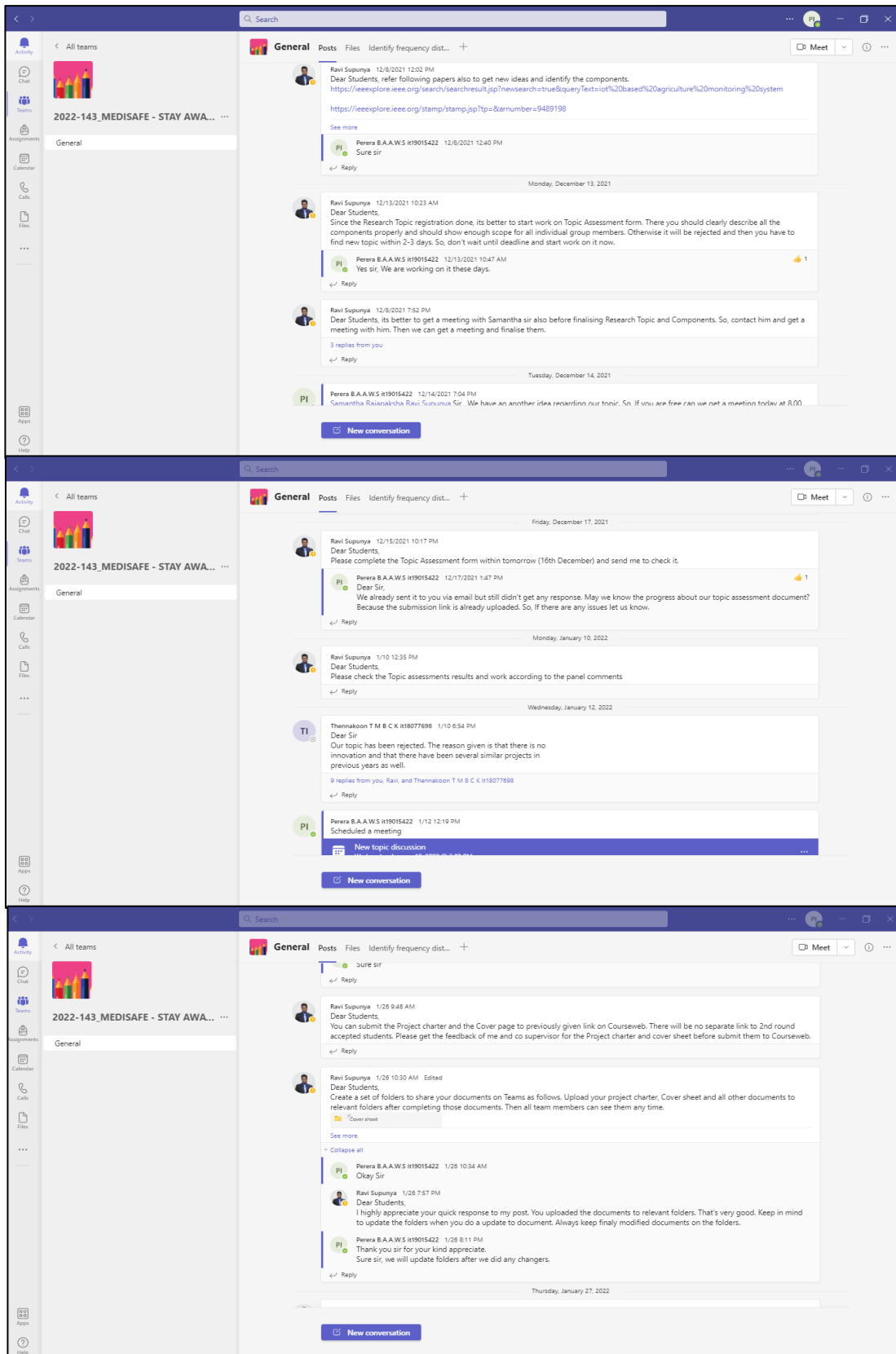


Figure 6-2: Shared posts and meetings_2

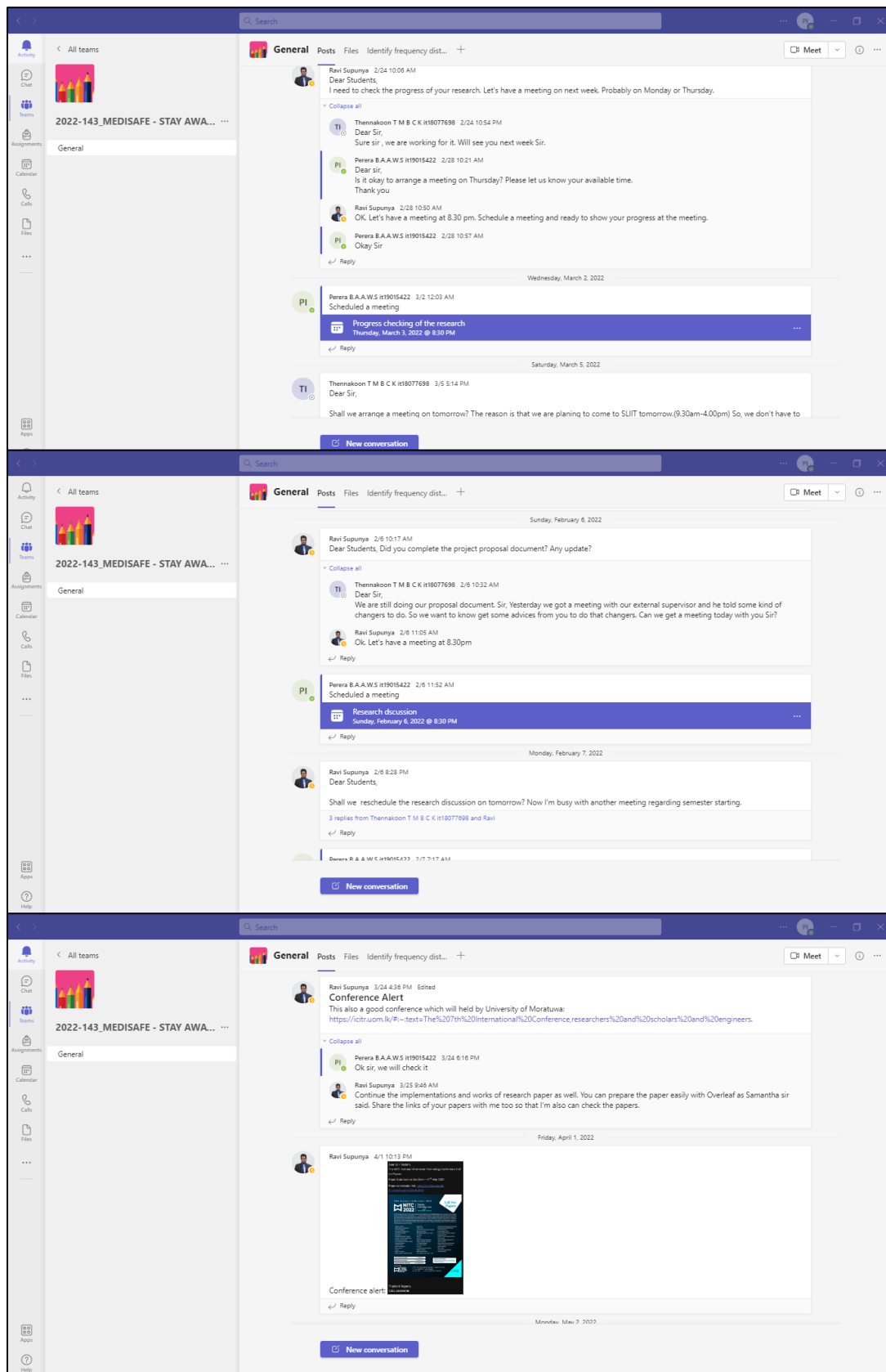


Figure 6-3: Shared posts and meetings_3

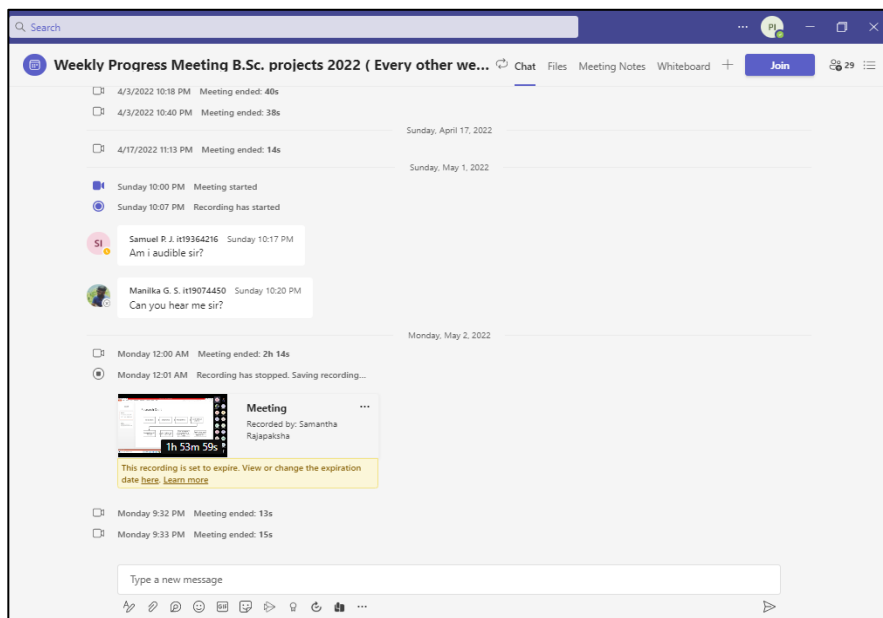
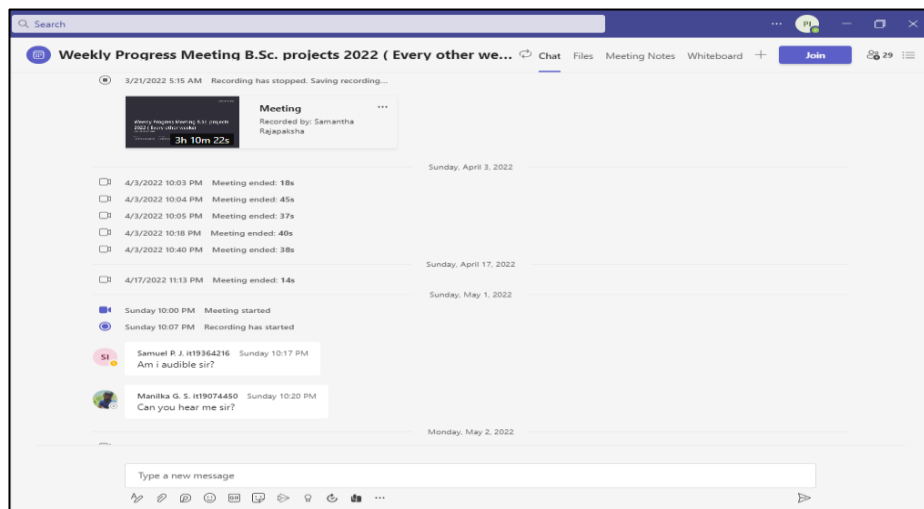
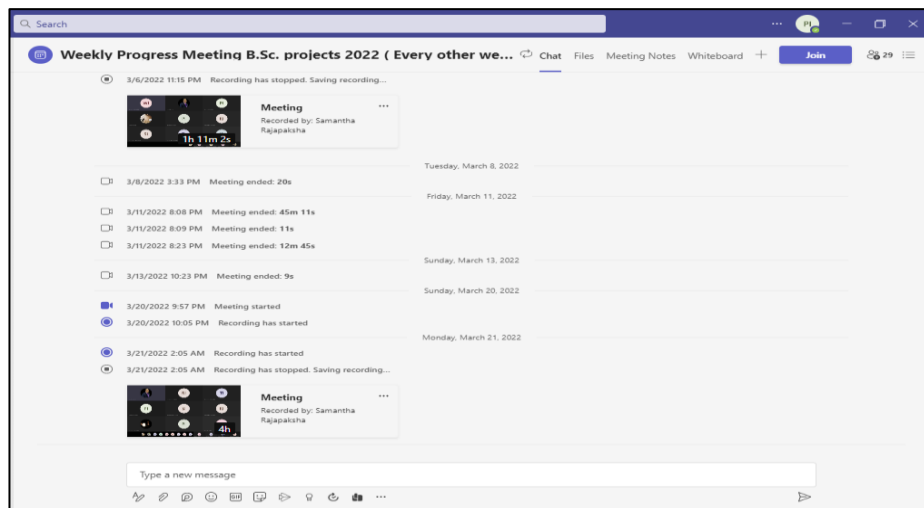


Figure 6-4: Weekly progress checking

- Shared posts and meetings with group members

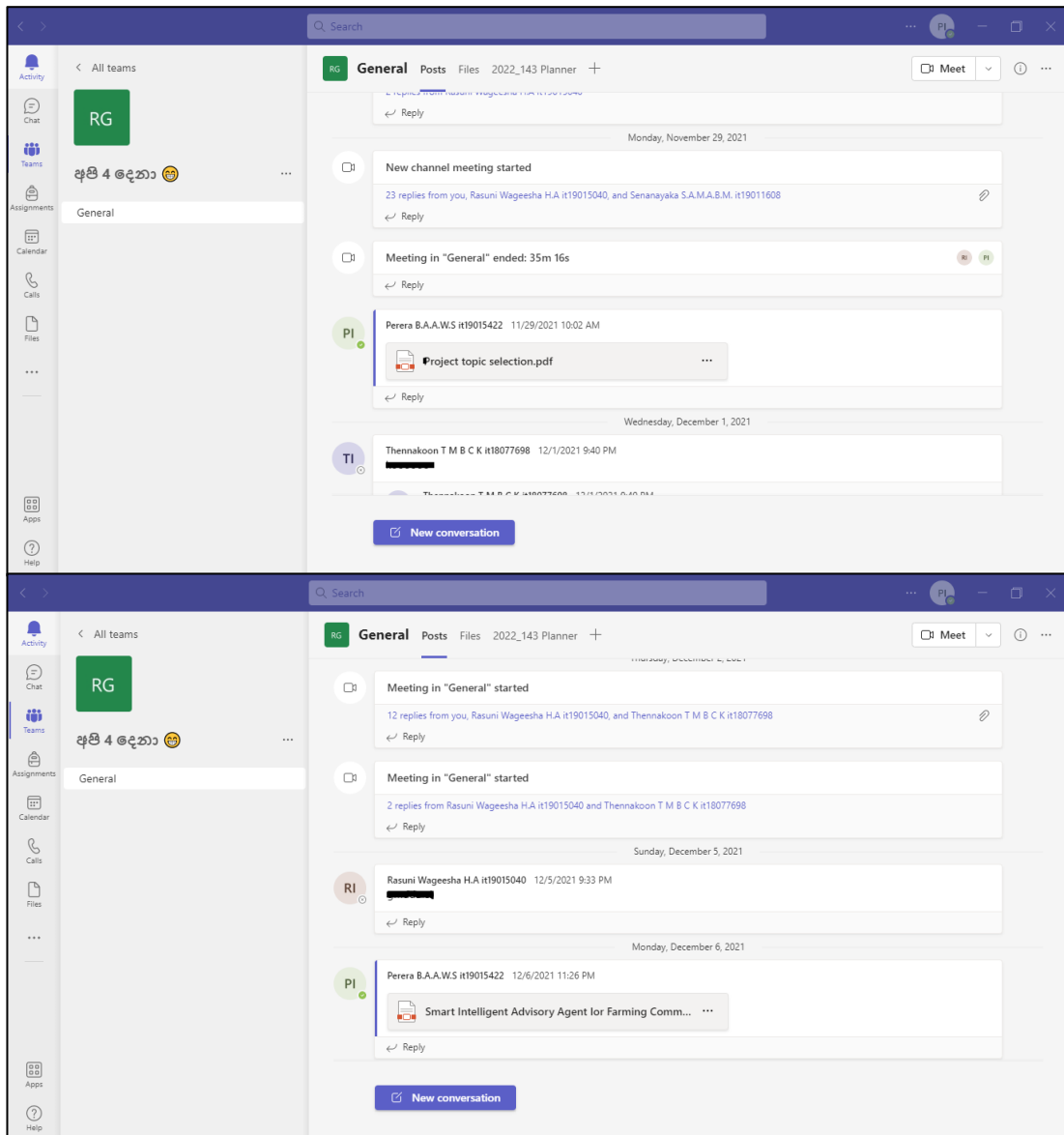


Figure 6-5: Shared post and meeting (Group members)_1

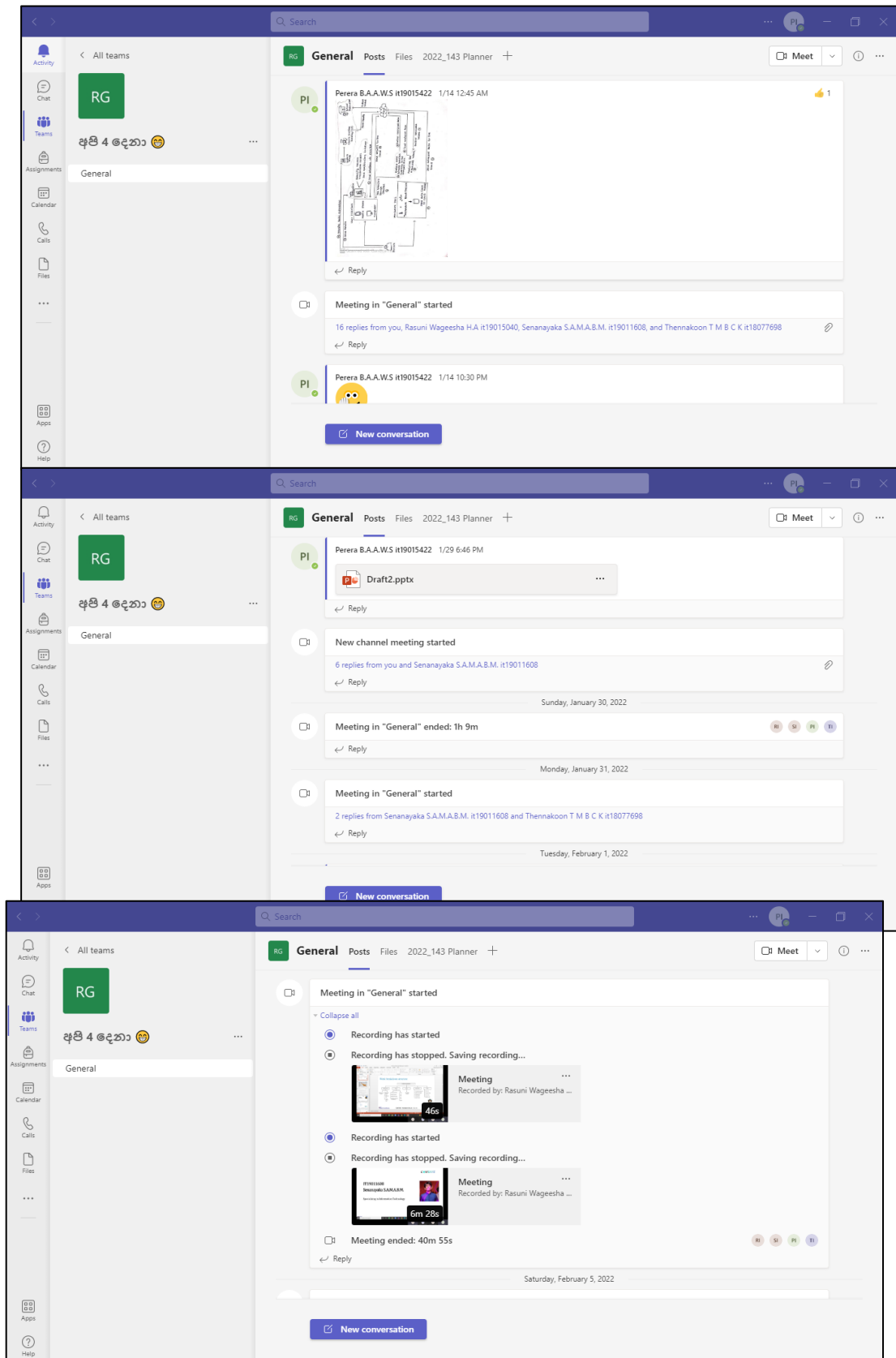


Figure 6-6: Shared post and meeting (Group members)_2

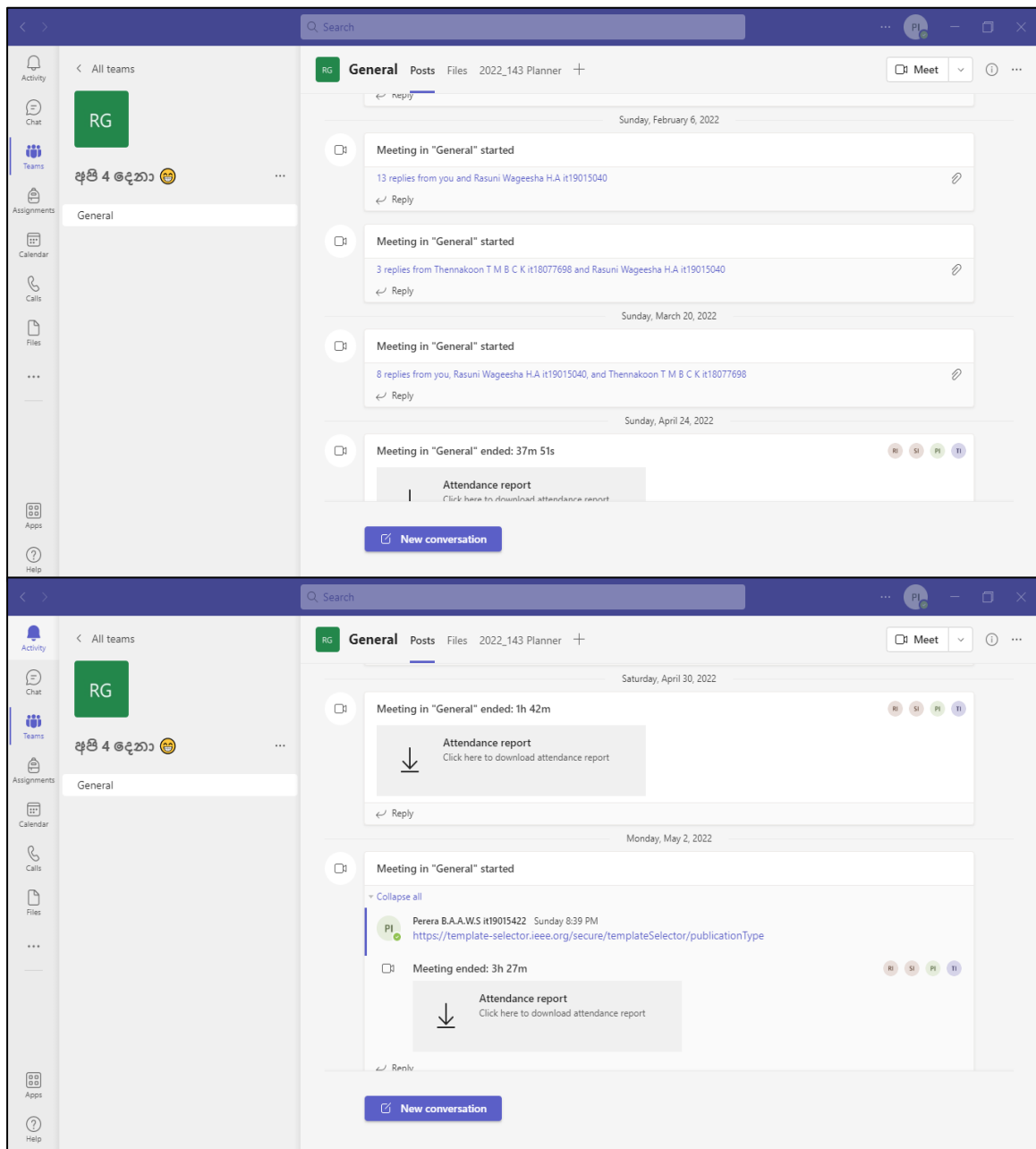


Figure 6-7: Shared post and meeting (Group members)_3

- **Some snapshots of Meetings**

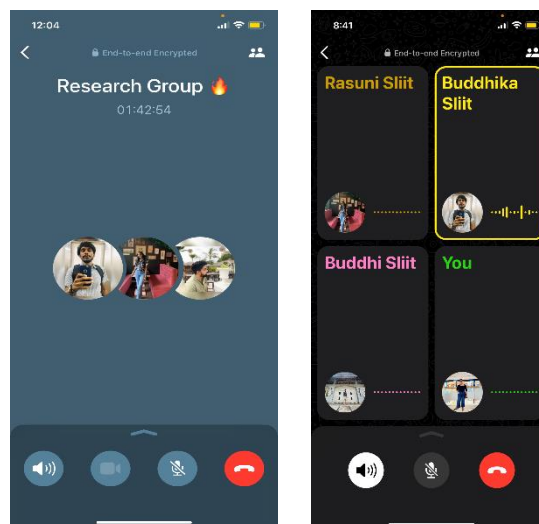
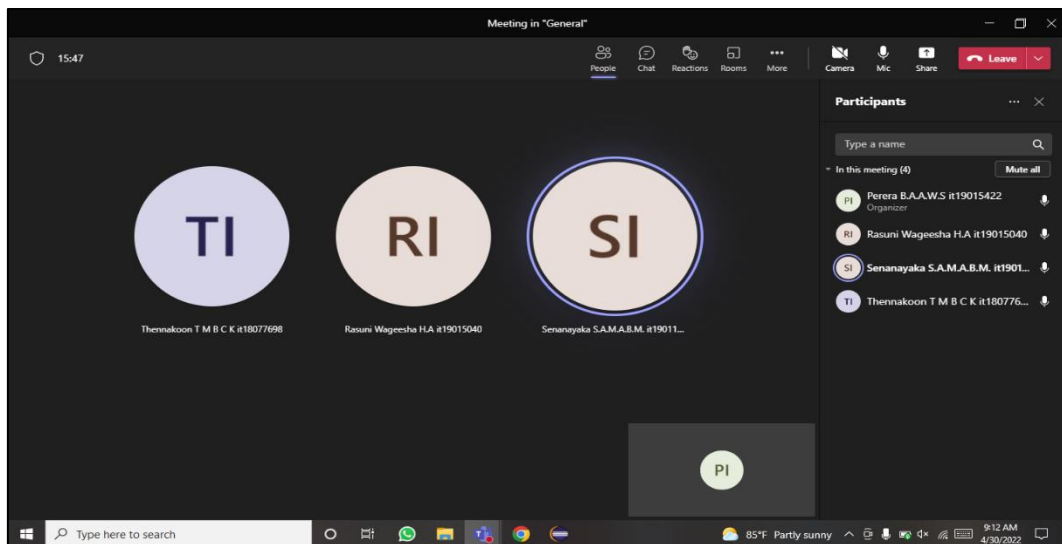
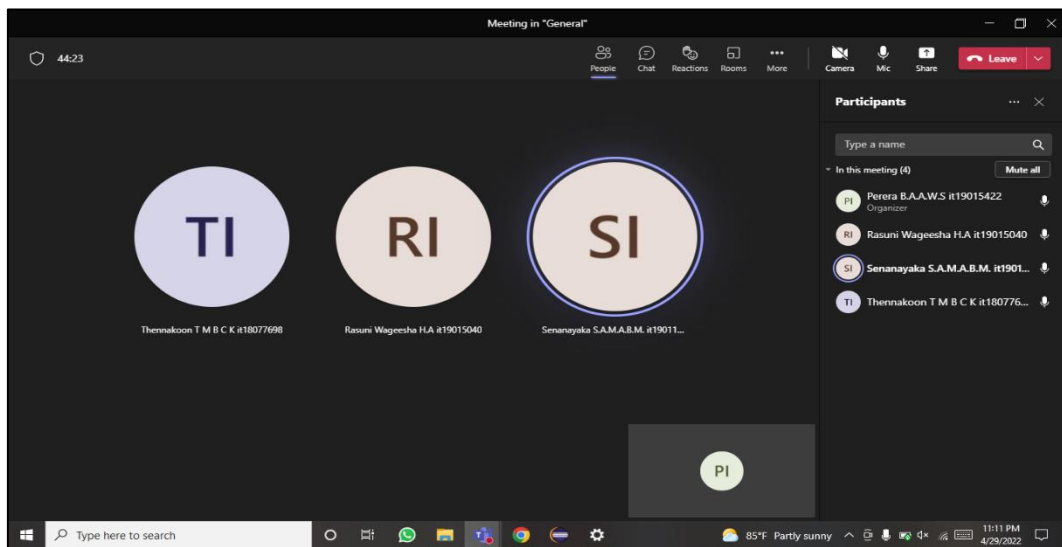


Figure 6-8: Snapshots of meetings_1

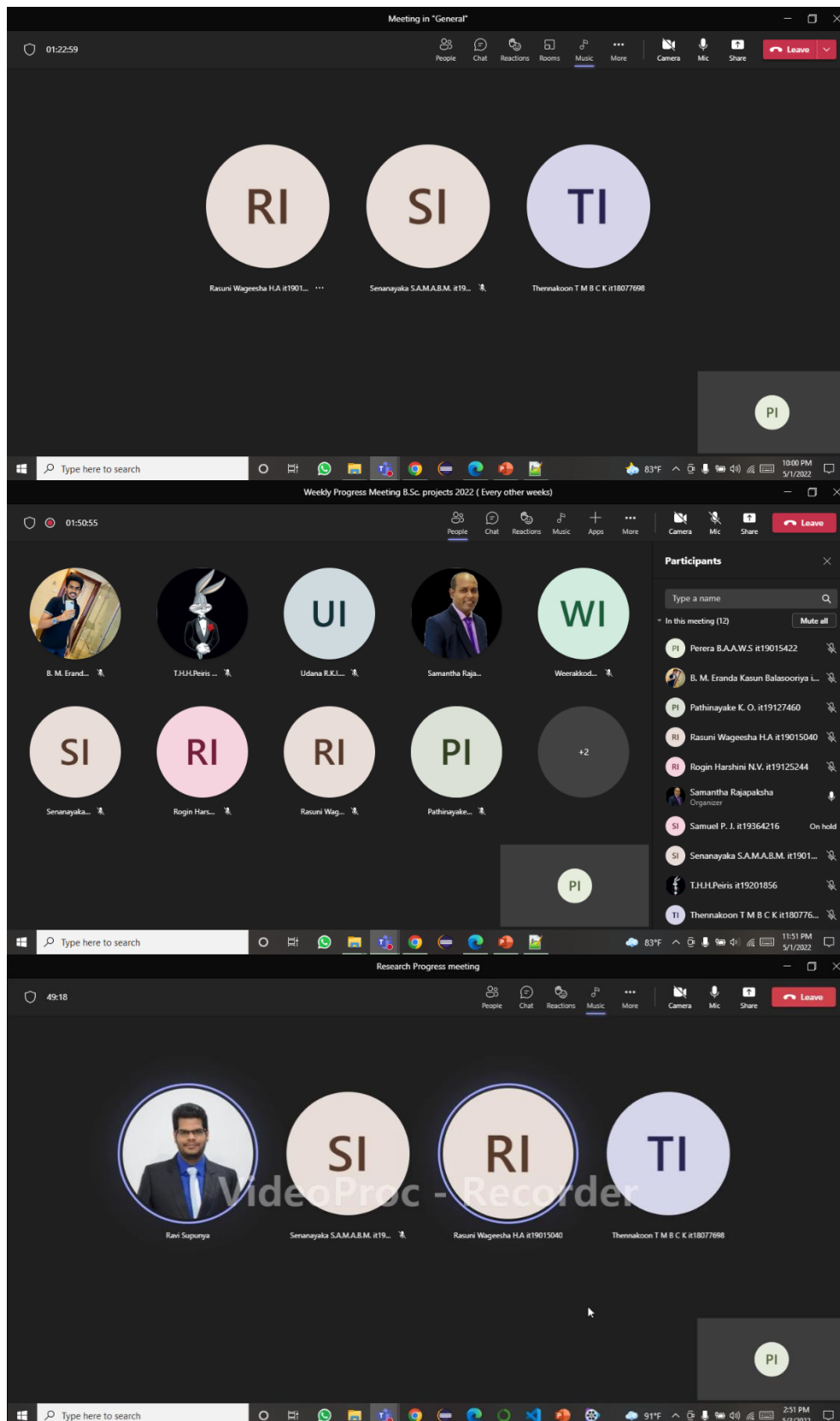


Figure 6-9: Snapshots of meetings_2

