REAL-TIME CARBON NEUTRALITY MANAGEMENT AND OPTIMIZATION USING NATURAL LANGUAGE PROCESSING

Project ID: 2022-175

Status Document 1

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13th May 2022

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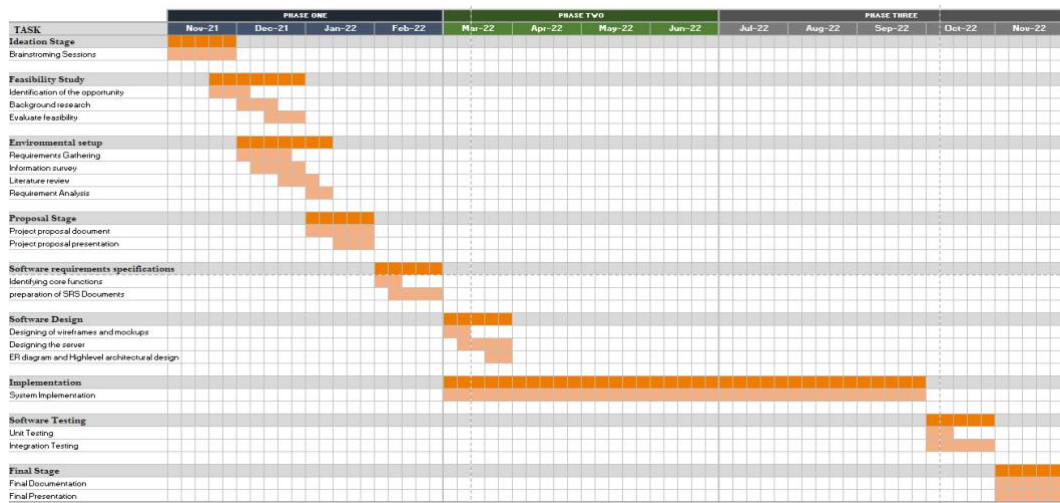
Figure 1.1: Gantt chart submitted with proposal report
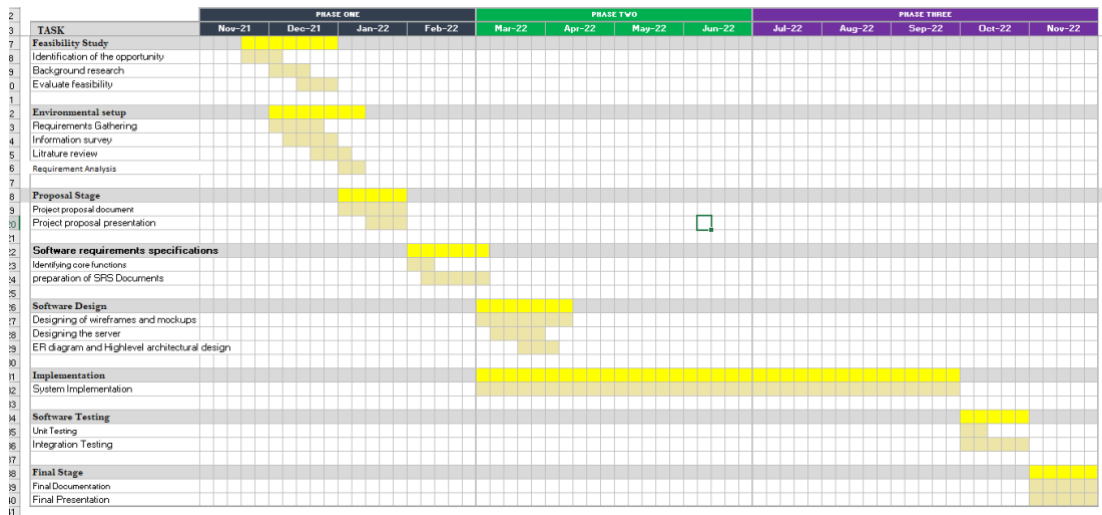
Figure 1.2: updated Gantt chart

2. TIMELINE COMPARISON AND WORK ALLOCATION

When compared with the proposal Gantt chart (shown in Figure 1.1) to the current Gantt chart (shown in Figure 1.2), the following changes occurred,

1. Delay in the mobile application design

   Reasons: Due to some requirements changes I have updated wireframes three times also take some time to create high fidelity diagrams.

2. Extension of mobile app implementation

   Reasons: Due to weight of research component I have focused on the research area. So that Could not be able to finish it.

3. FINALIZED WORK ALLOCATION
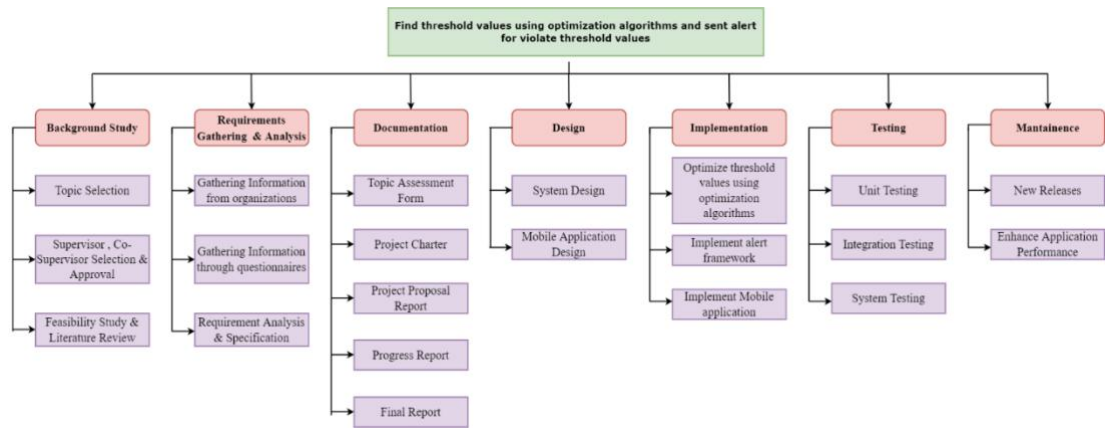
Figure 3.1: Updated work breakdown structure

4. PROJECT MANAGEMENT TOOLS REPORTS

4.1. Planner Reports
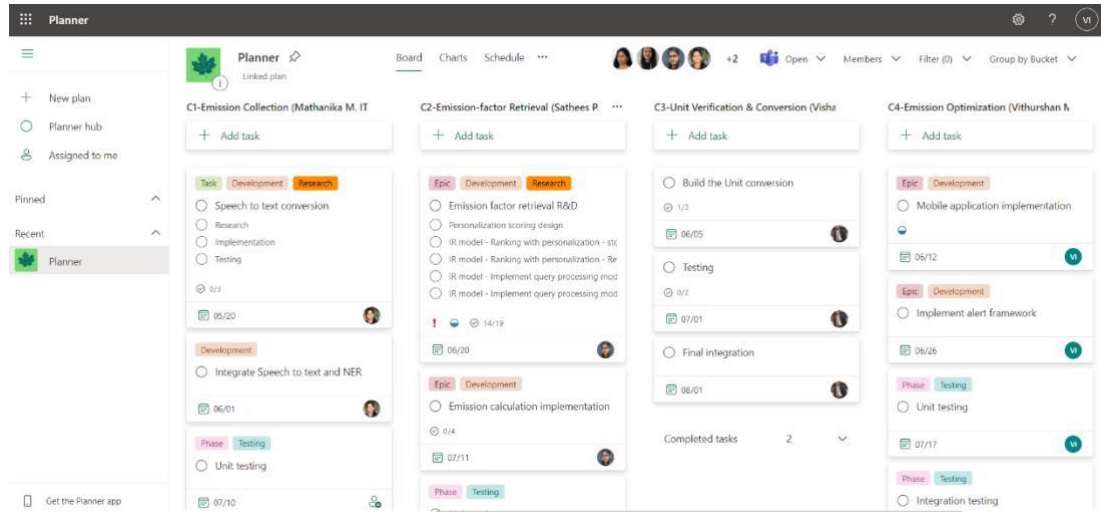
Figure 4.1: Full view of the project management tool (Planner)
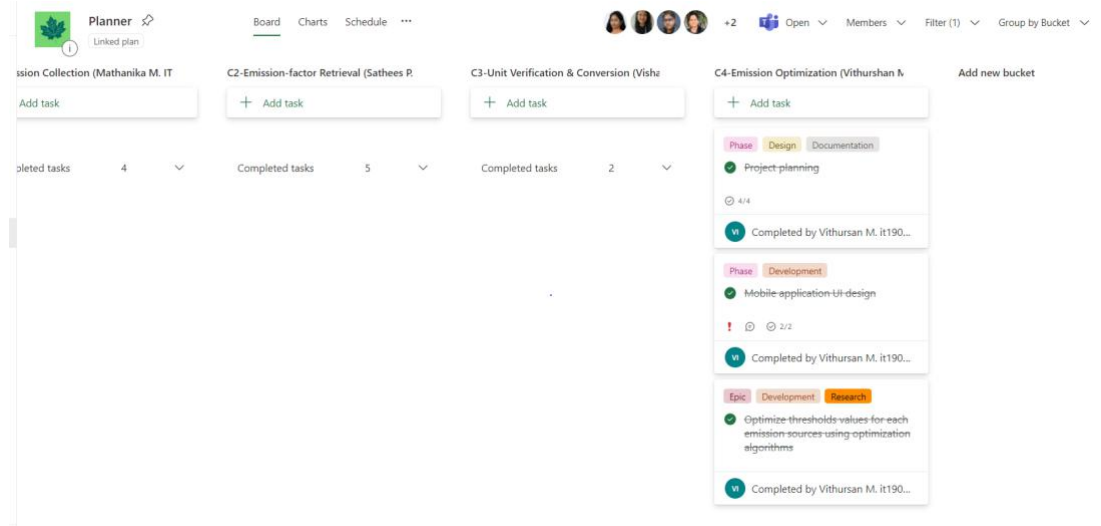
Figure 4.2: Tasks completed by me until now

Microsoft Planner was used to manage project tasks and work allocations (shown in figure 4.1). Figure 4.2 shows the phases and tasks completed by me until now. Figure 4.3 shows the remaining phases and tasks that must be completed before project completion.
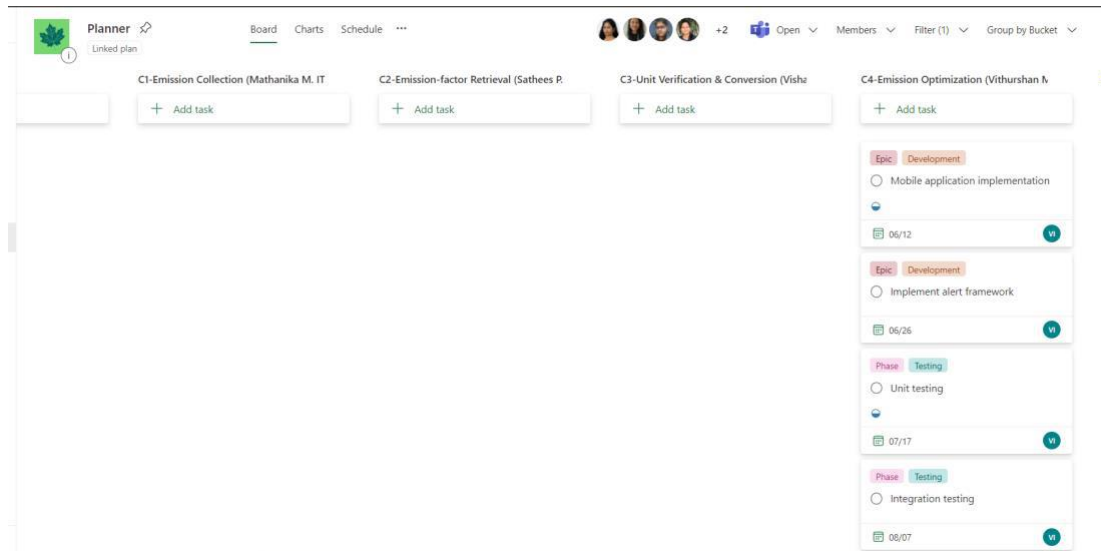
Figure 4.3: Ongoing and remaining tasks
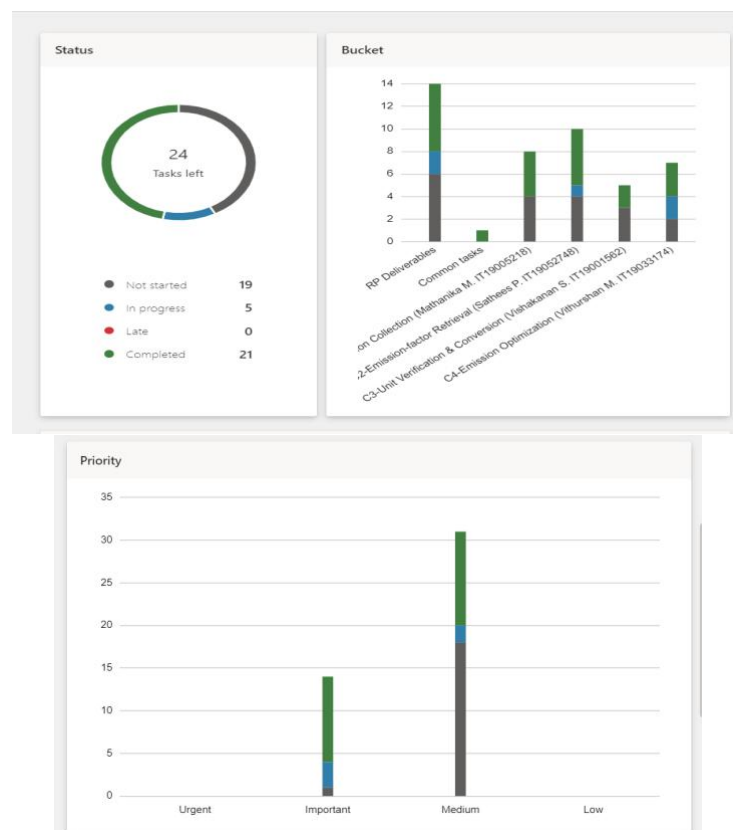
Figure 4.4: Planner report generated for my component, common tasks, and project deliverables part

Figures 4.4 and 4.5 show the reports generated by the planner for my contribution and progress status at the current moment.
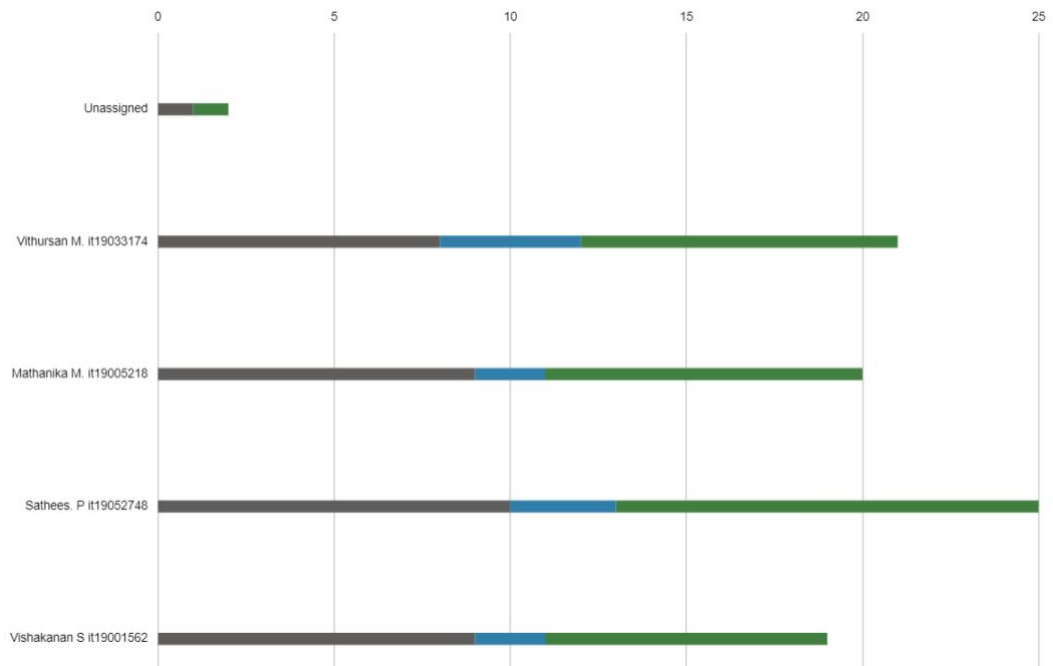
Figure 4.5: Planner overall contribution report generated

4.2. Milestones Completion

Figure 4.6: Milestones completed or contributed
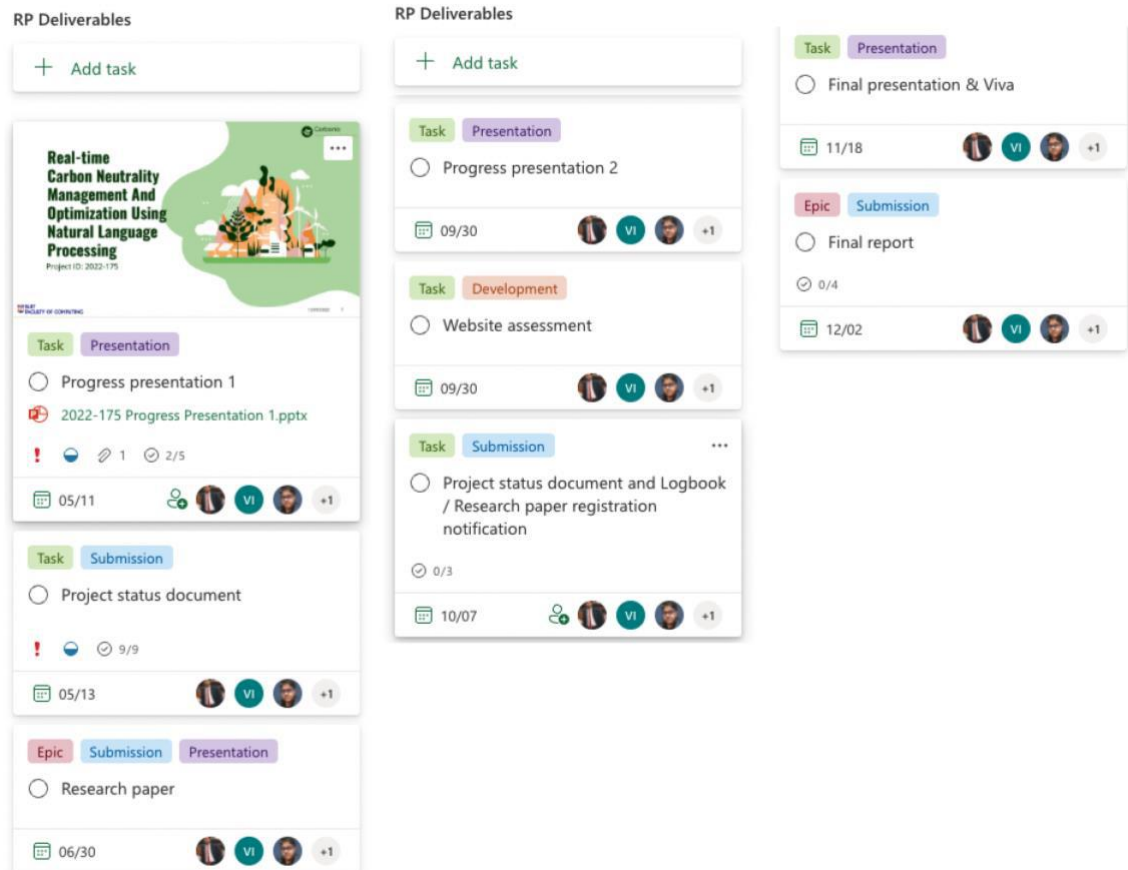
Figure 4.7: Ongoing and remaining milestones

4.3. Documentation Works

Until now I have contributed to the following documentation works,

1. Initial topic registration
2. Topic assessment form
3. Charter
4. Project proposal (individual)
5. Proposal presentation
   a. My component
   b. Commercialization
6. Meeting logbooks
7. Progress presentation 1
   a. My component
   b. Commercialization – Business plan
8. Status document 1 (individual)

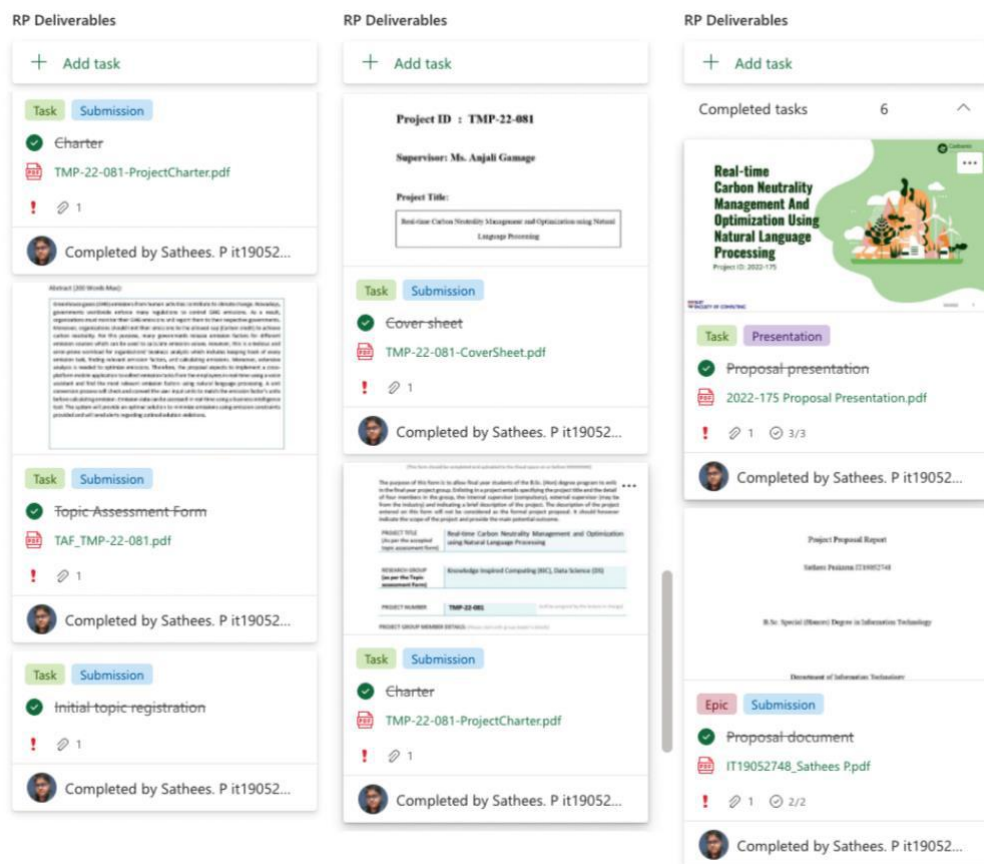## 4.4. Meeting Logs and Proofs

Table 4.1: supervisor meeting logs

Date	Time	Platform	Supervisor	Co-supervisor	Ext-supervisor	Vithurshan	Discussions	Conclusions
12/6/2021	8:00 PM	MS Teams	Present	Absent	Absent	Present	Topic selection Co-supervisor selection Components Communications with supervisor (e.g. teams) External supervisor	Identify more relevant components for the idea Find a more novel idea
12/10/2021	8:00 PM	MS Teams	Absent	Present	Absent	Present	Group intro Research area / technologies Reason for delay Idea 2 - domain, problem, implementation Idea 2 - possible implementation Dataset collection Form submission extension Communication - 077-6918328	Decided to go with KIC and data science Arrange a meet with the supervisor Might have a large scope Formulate a topic
12/28/2021	4:00 PM	Zoom	Absent	Absent	Present	Present	Domain area, Problems, Idea	Decided to be our external supervisor
3/29/2022	2:00 PM	MS Teams	Absent	Present	Absent	Present	Progress, PP1 demo with Jupyter notebooks, Weekly meetings	Decided to demo PP1 within jupyter notbooks

								Domain area, Problems,	
12/28/2021	4:00 PM	Zoom		Absent	Absent	Present	Present	Idea	Decided to be our external supervis
3/29/2022	2:00 PM	MS Teams		Absent	Present	Absent	Present	Progress, PP1 demo with Jupyter notebooks, Weekly meetings	Decided to demo PP1 within jupyter notbooks
4/26/2022	3:30 PM	MS Teams		Present	Absent	Absent	Present	Individual progress, Demo instructions, Presentation draft discussions, Next meeting	Decided to meet after 5th may to see the trial PP! presentation and demo.
4/29/2022	2:00 PM	MS Teams		Absent	Present	Absent	Present	Individual progress, Reviewing PP1 slides, Changes to system architecture diagram, Next meeting for demo	Decided to add detailed parts for Component 1 and 4, Decided to have a demo presentation after 5th May

Table 4.2: Group meeting logs

Date	Time	Platform	Vithursan	Discussions	Conclusions
2021-11-20	8:00 PM	Zoom	Present	Component separation, supervisor selection	Chosen topic 1 as the priority idea Started working on component separation
2021-11-21	1:00 PM	Zoom	Present		
2021-11-22	1:00 PM	Zoom	Present	Finalize supervisor document Send mail to the supervisor Responsive and informing prior Journal task allocation Slack usage	
2021-11-23	8:00 AM	Zoom	Present	Informing prior about attendance Meeting time (in the morning) Slack usage	
2021-11-24	8:00 AM	Zoom	Present		
2021-11-29	10:00 AM	Zoom	Present	Identify unique research components Allocate sections	Decided to research each section
2021-12-01	8:00 AM	Zoom	Present	Research component search progress Supervisor issue	Decided to mail the supervisor for a meeting this Friday

Date	Time	Platform	Attendance	Topics	Decisions
2021-12-02	8:00 AM	Zoom	Present	New component separation Component allocation Courses System diagram Allocation of the time title submission form	Decided to send a mail to the supervisor requesting a meeting
2021-12-03	5:00 PM	Zoom	Present	Mail sent Tasks identified	
2021-12-05	8:00 AM	Zoom	Present	Tasks identified Supervisor status Form submissions	Decided to send a reminder mail to the supervisor for topic selection, supervising, and co-supervisor. Decided to conduct meetings every day from now.
2021-12-06	8:00 AM	Zoom	Present	Supervisor issue Dataset issue Sending a third mail	Decided to ask for a supervisor
2021-12-06	9:00 PM	Zoom	Present	Data and Topic issue	Sent mails to supervisors
2021-12-07	8:00 AM	Zoom	Present	Updates on mails Data science technologies	
2021-12-07	9:00 PM	Zoom	Present	Topic selection Co-supervisor selection Components Communications with supervisor (e.g. teams) External supervisor	Identify more relevant components for this bee idea Find a more novel idea
2021-12-08	8:00 AM	Zoom	Present	New idea formation Co-supervisor More resources for 1st idea	Decided to send documents of a new idea to the supervisor Asked for a co-supervisor
2021-12-09	8:00 AM	Zoom	Present	New components to the new idea	
2021-12-09	8:00 PM	Zoom	Absent	Arranging a new meeting with the supervisor Concept of bee idea	Wait for the co-supervisor meeting
2021-12-10	8:00 PM	Zoom	Present	New ideas Feasibility of the ideas What to ask with co-supervisor	Decided to ask for a schedule with co-supervisor
2021-12-11	8:00 AM	Zoom	Present	What to discuss with co-supervisor Any new ideas	Go with the second idea
2021-12-11	8:00 PM	Zoom	Present	Identify topics Product name	

2021-12-12	8:00 AM	Zoom	Present	Forming topic Submitting the topic	
2021-12-12	8:00 PM	Zoom	Present	Literature review Technical side	No meeting on Monday morning
2021-12-19	8:00 PM	Zoom	Absent	Task allocation New idea finding	
2021-12-20	8:00 PM	Zoom	Present	New ideas TAF rewrite Supervisor contact	Find a relevant component for Vithursan
2021-12-21	8:00 PM	Zoom	Present		
2021-12-22	8:00 PM	Zoom	Present		
2021-12-23	8:00 PM	Zoom	Absent		
2021-12-24	8:00 PM	Zoom	Present		
2021-12-27	8:00 PM	Zoom	Present		
2022-03-10	19:00	MS Teams	Present	Progress status	
2022-03-12	19:00	MS Teams	Present	Progress status	
2022-03-15	19:00	MS Teams	Present	Progress status	
2022-03-16	19:00	MS Teams	Present	Progress status	
2022-03-17	19:00	MS Teams	Absent	Progress status	
2022-03-19	19:00	MS Teams	Present	Progress status	
2022-03-21	19:00	MS Teams	Present	Progress status	
2022-03-22	19:00	MS Teams	Present	Progress status	
2022-03-23	19:00	MS Teams	Present	Progress status	
2022-03-24	19:00	MS Teams	Present	Progress status	
2022-03-26	19:00	MS Teams	Present	Progress status	
2022-03-29	19:00	MS Teams	Present	Progress status	
2022-03-30	19:00	MS Teams	Present	Progress status	
2022-03-31	19:00	MS Teams	Present	Canceled due to connection issue	
2022-04-02	19:00	MS Teams	Absent	Canceled due to connection issue	
2022-04-05	19:00	MS Teams	Present	Progress status	
2022-04-06	19:00	MS Teams	Present	Progress status	

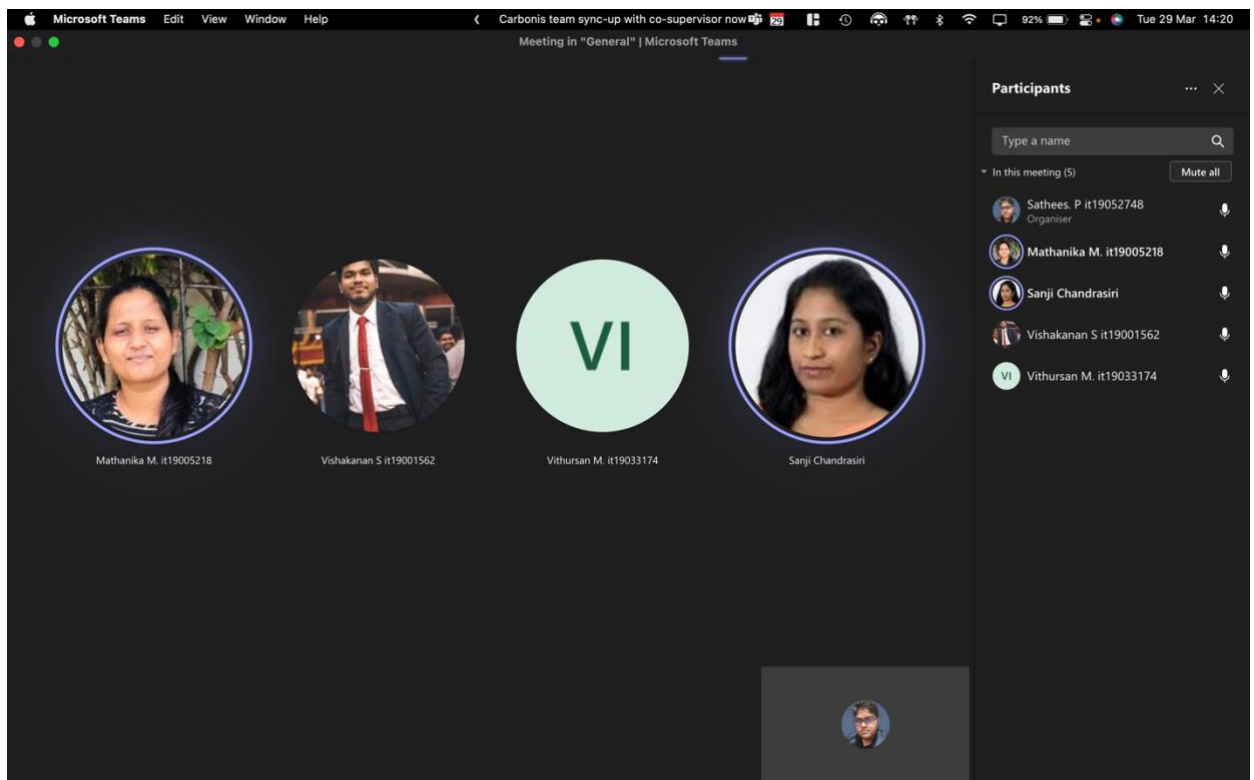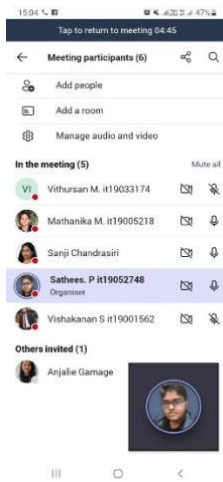|					
2022-04-07	19:00	MS Teams	Present	Progress status	
2022-04-09	19:00	MS Teams	Absent	Progress status	
2022-04-12	19:00	MS Teams	Present	Progress status	
2022-04-13	19:00	MS Teams	Present	Progress status	
2022-04-14	19:00	MS Teams	Absent	Canceled due to New year	
2022-04-16	19:00	MS Teams	Present	Progress status	
2022-04-19	19:00	MS Teams	Present	Progress status	
2022-04-20	19:00	MS Teams	Present	Progress status	
2022-04-21	19:00	MS Teams	Present	Progress status	
2022-04-23	19:00	MS Teams	Present	Progress status	
2022-04-26	19:00	MS Teams	Present	Progress status	
2022-04-27	7:00 PM	MS Teams	Present	Progress status, meeting journal	
2022-04-28	7:00 PM	MS Teams	Present	Progress status	
2022-05-03	7:00 PM	MS Teams	Present	Progress status, PP1 Marking Rubric discussion	

Figure 4.8: Supervisor meeting proof

Figure 4.9: Co-supervisor meeting proof