

# SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY



## STATUS DOCUMENT 1

BLOOMQUEST: PERSONALIZED LEARNING SYSTEM BASED ON  
KNOWLEDGE GRAPHS AND BLOOM'S TAXONOMY.

2023-035

**IT20123468 – Senaweera T.I.S.**

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# 1. Microsoft Teams Meetings with Supervisor and Co-Supervisor.

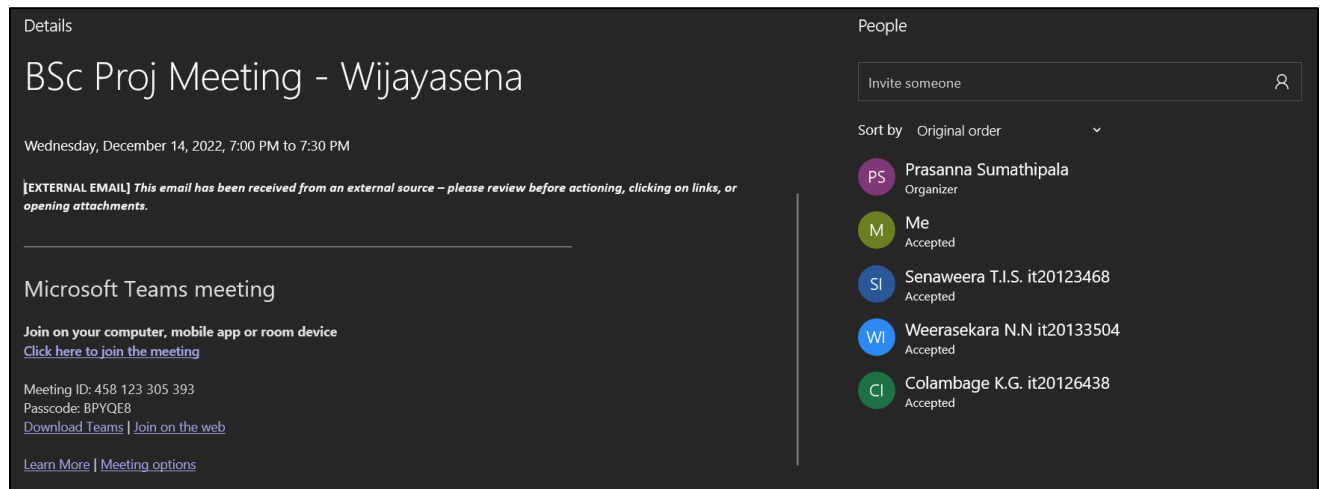


Figure 1: Initial Meeting with Supervisor.

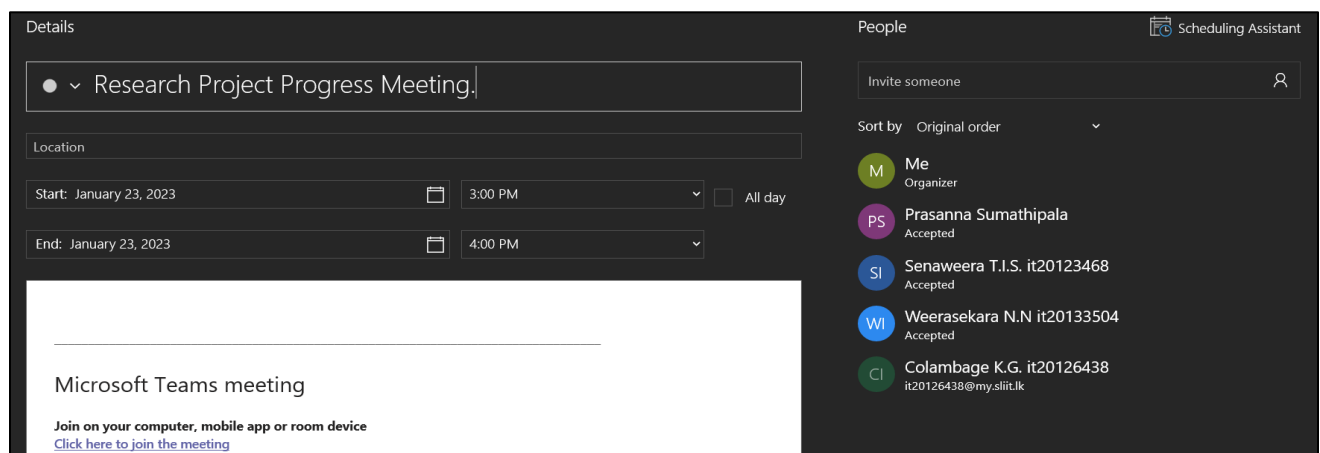


Figure 2: Meeting with Supervisor – 1.

Details

k-Graph Proj

Wednesday, February 8, 2023, 4:00 PM to 5:00 PM

Join online

**[EXTERNAL EMAIL]** *This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.*

---

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 429 142 436 367

Passcode: JvnNSx

[Download Teams](#) | [Join on the web](#)

People

Sort by

Original order

▼

PS

Prasanna Sumathipala

Organizer

M

Me

Accepted

CI

Colambage K.G. it20126438

it20126438@mysliit.lk

SI

Senaweera T.I.S. it20123468

Accepted

WI

Weerasekara N.N it20133504

Accepted

Figure 3: Meeting with Supervisor - 2.

Details

BSc Research

Friday, March 17, 2023, 1:30 PM to 2:15 PM

**[EXTERNAL EMAIL]** *This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.*

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People

Sort by

Original order

▼

PS

Prasanna Sumathipala

Organizer

M

Me

Accepted

Figure 4: Meeting with Supervisor - 3.

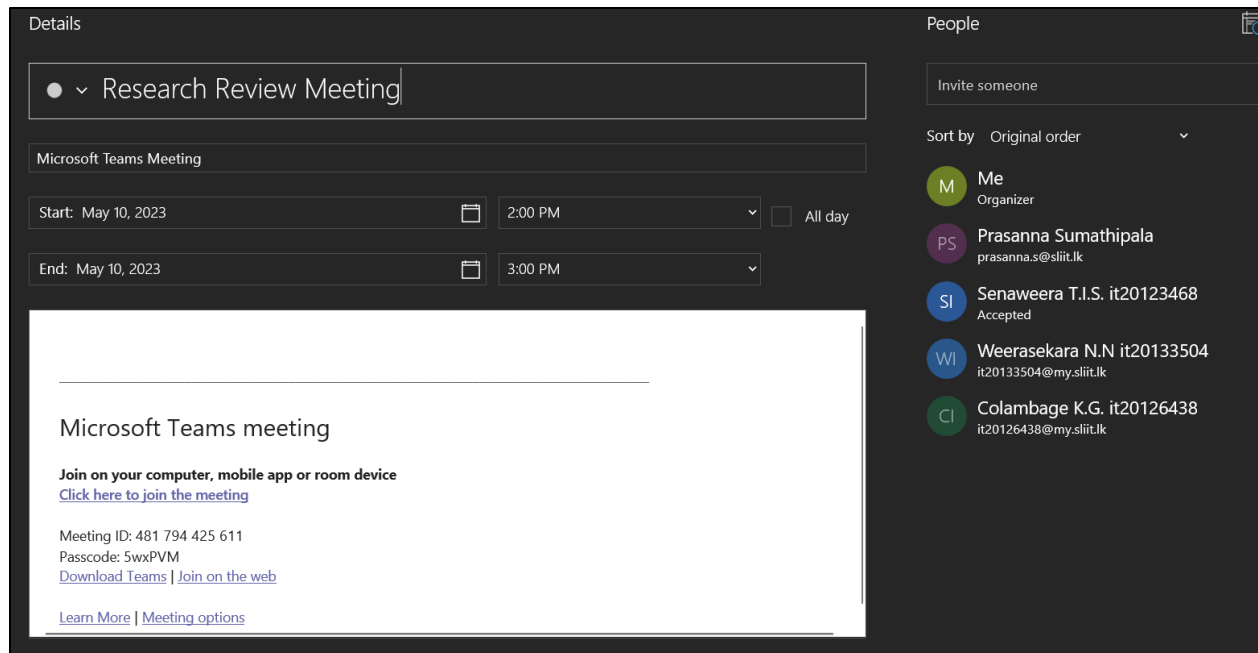


Figure 5: Meeting with Supervisor - 4.

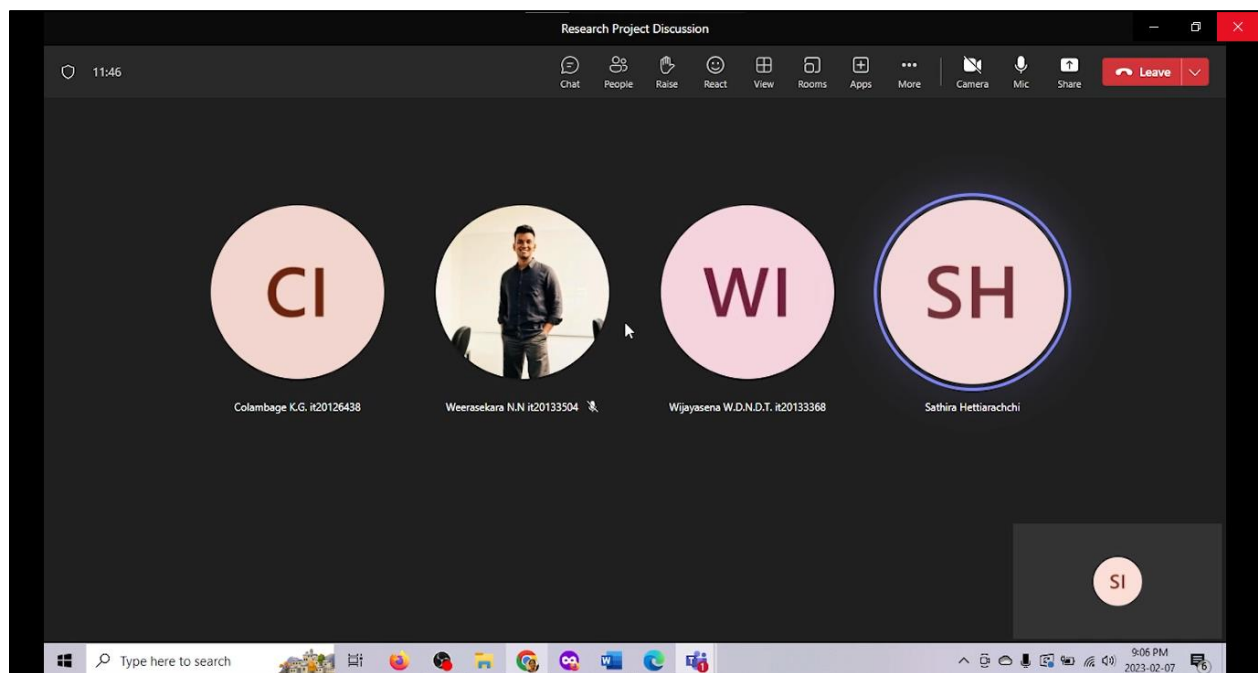


Figure 6: Meeting with Co-Supervisor.



Figure 7: Meeting with Supervisor to Decide on the Dataset.

## 2. Meeting Logs.

Venue	Teams (Online Meeting)
Subject	First Meeting with the Supervisor
Attendees	Mr Prasanna Sumathipala, Wijayasena W.D.N.D.T, Senaweera T.I.S, Weerasekara N.N, Colambage K.G

Key Points Discussed	
No.	Description
1.	Wijayasena W.D.N.D.T gave a comprehensive description of the proposed project.
2.	Get familiar with the development platforms that we will be using. Eg: Identify flexible libraries to work.
3.	After getting familiar with the platform read related research papers ( <b>5 to 10 per person</b> ).  Use summarizing tools. Eg: Mendeley - <a href="https://www.mendeley.com/">https://www.mendeley.com/</a>
4.	Sir gave an insight into how the research project process is done.

Figure 8: Meeting Logs - 1.

<b>Venue</b>	WhatsApp (Online Meeting)
<b>Subject</b>	Discuss about a suitable tutorials to follow
<b>Attendees</b>	Wijayasena W.D.N.D.T, Senaweera T.I.S, Weerasekara N.N, Colambage K.G
<b>Key Points Discussed</b>	
<b>No.</b>	<b>Description</b>
1.	Wijayasena W.D.N.D.T explained the purpose of the meeting and asked each member about their findings of tutorials as discussed in the previous meeting.
2.	Two tutorials were provided to follow. <ul style="list-style-type: none"> <li><a href="https://www.youtube.com/watch?v=nYQLp7itZx8">https://www.youtube.com/watch?v=nYQLp7itZx8</a></li> <li><a href="https://www.youtube.com/watch?v=EXMI85IC_o4">https://www.youtube.com/watch?v=EXMI85IC_o4</a></li> </ul>
<b>Actions to be Taken</b>	

Figure 9: Meeting Logs - 2.

<b>Venue</b>	WhatsApp (Online Meeting)
<b>Subject</b>	Discuss the progress of the research
<b>Attendees</b>	Wijayasena W.D.N.D.T, Senaweera T.I.S, Weerasekara N.N, Colambage K.G
<b>Key Points Discussed</b>	
<b>No.</b>	<b>Description</b>
1.	Wijayasena W.D.N.D.T explained the purpose of the meeting and asked each member about the current progress.
2.	Members mentioned about the incomprehensibility of the first tutorial.
3.	Discussed and clarified some doubts.
4.	Senaweera T.I.S suggested a new tutorial which seemed more related to the research project and asked other group members to go through it. <a href="https://neo4j.com/developer/graph-data-science/build-knowledge-graph-nlp-ontologies/">https://neo4j.com/developer/graph-data-science/build-knowledge-graph-nlp-ontologies/</a>

Figure 10: Meeting Logs - 3.

Venue	SLIIT (Physical Meeting)
Subject	Prepare for the first progress meeting with the supervisor.
Attendees	Wijayasena W.D.N.D.T, Senaweera T.I.S, Weerasekara N.N, Colambage K.G

Key Points Discussed	
No.	Description
1.	Wijayasena W.D.N.D.T explained the reason for the meet-up.
2.	Then he asked other members whether they have anything to be clarified regarding the research.
3.	Discussed new findings done by each member and clarified doubts.
4.	Wijayasena W.D.N.D.T highlighted the fact of not having a "co-supervisor" and mentioned it should be discussed with Prasanna sir.
5.	Decided on a rough plan for the first progress meeting with the supervisor.

Figure 11: Meeting Logs - 4.

### 3. Emails.

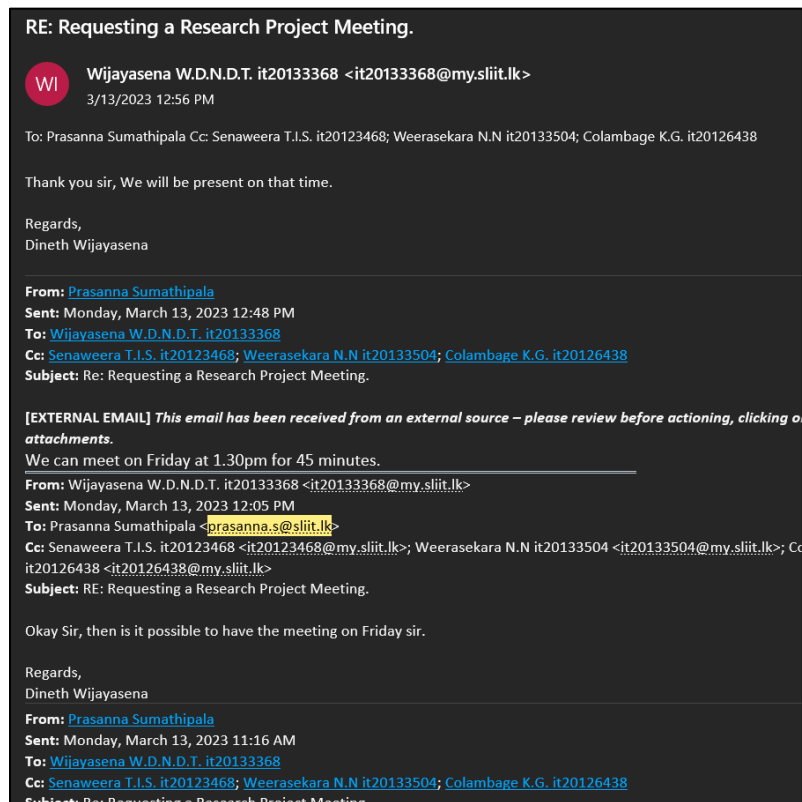


Figure 12: Emails with Supervisor - 1.



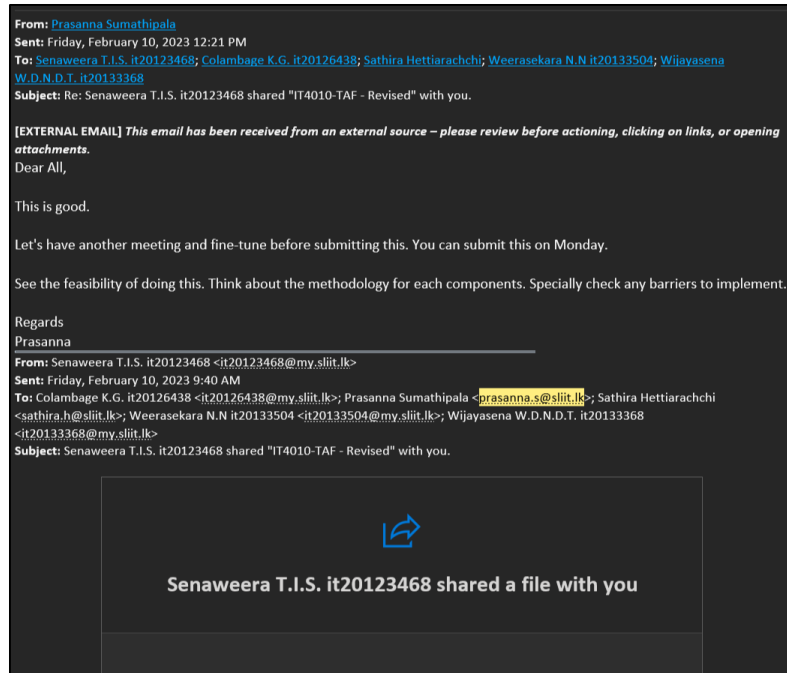


Figure 13: Emails with Supervisor - 2.

## 4. Microsoft Planner

### 4. 1 Planner Board

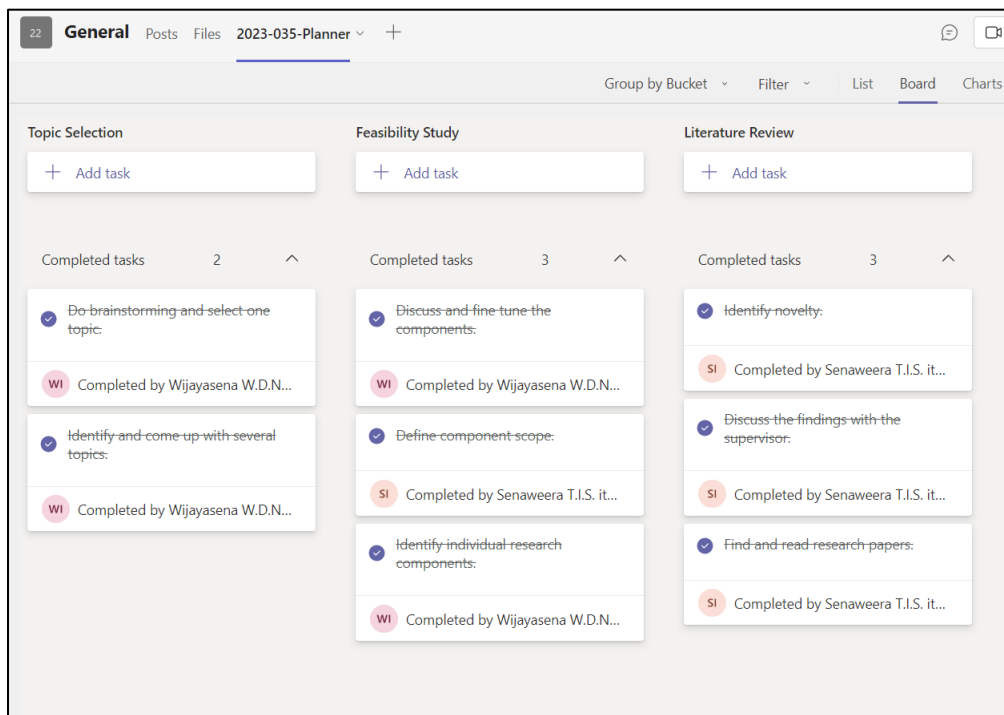


Figure 14: Planner Board - 1

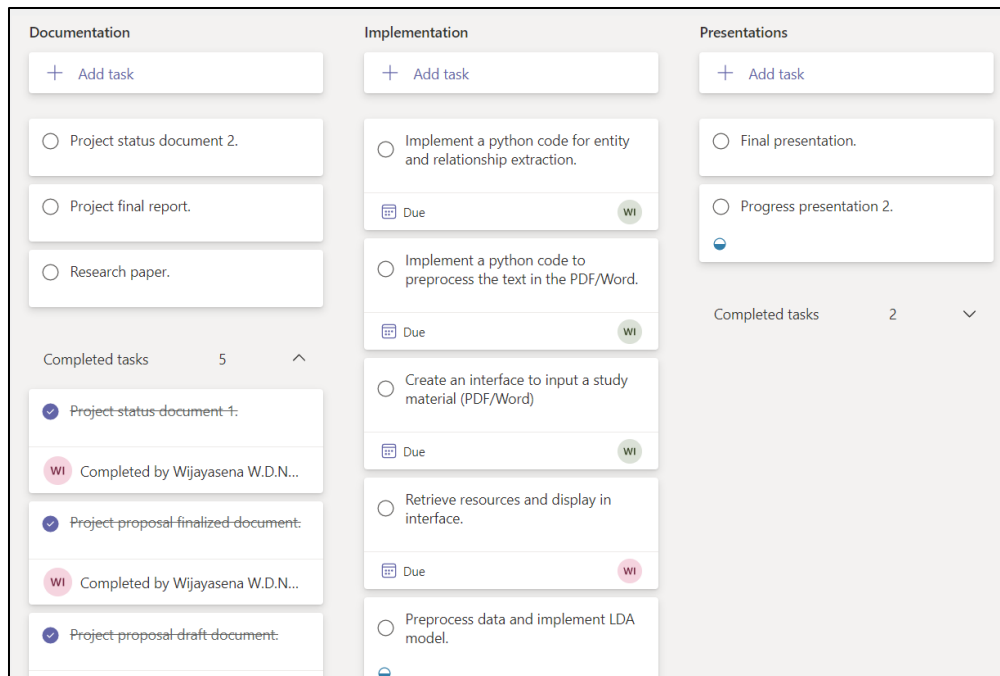


Figure 15: Planner Board – 2

## 4.2 Completed Tasks

22 General Posts Files 2023-035-Planner +			
Completed Filter List Board			
Task title	Completed by		Prior
+ Add a task			
✓ Train BLSDM model:	SI	Senaweera T.I.S. it20...	
✓ Train LSDM model:	SI	Senaweera T.I.S. it20...	
✓ Develop basic dashboard:	SI	Senaweera T.I.S. it20...	
✓ Develop basic performance index:	SI	Senaweera T.I.S. it20...	
✓ Progress presentation 1:	WI	Wijayasena W.D.N.D...	
✓ Proposal presentation:	WI	Wijayasena W.D.N.D...	
✓ Project status document 1:	WI	Wijayasena W.D.N.D...	
✓ Project proposal finalized document:	WI	Wijayasena W.D.N.D...	
✓ Project proposal draft document:	WI	Wijayasena W.D.N.D...	
✓ Charter document:	WI	Wijayasena W.D.N.D...	
✓ Topic assessment form:	SI	Senaweera T.I.S. it20...	
✓ Discuss the findings with the supervisor:	SI	Senaweera T.I.S. it20...	
✓ Identify novelty:	SI	Senaweera T.I.S. it20...	

Figure 16: Completed Tasks.

### 4.3 Teams Planner Schedule

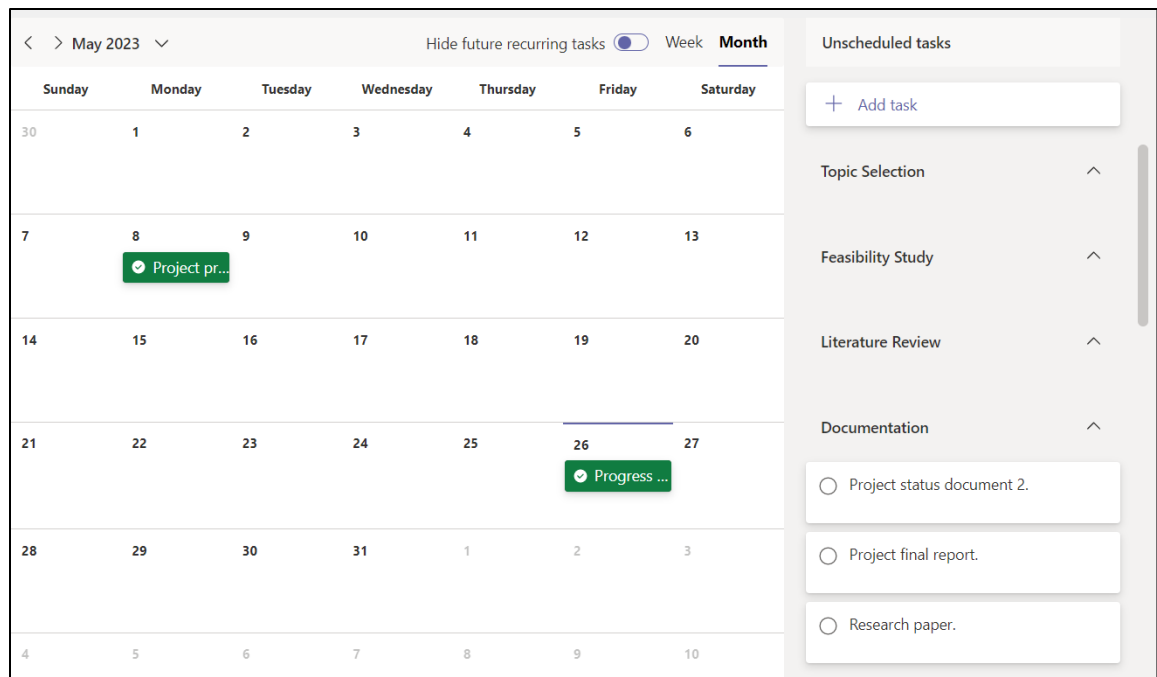


Figure 17: Teams Planner Schedule.

### 4.4 Teams Planner Charts

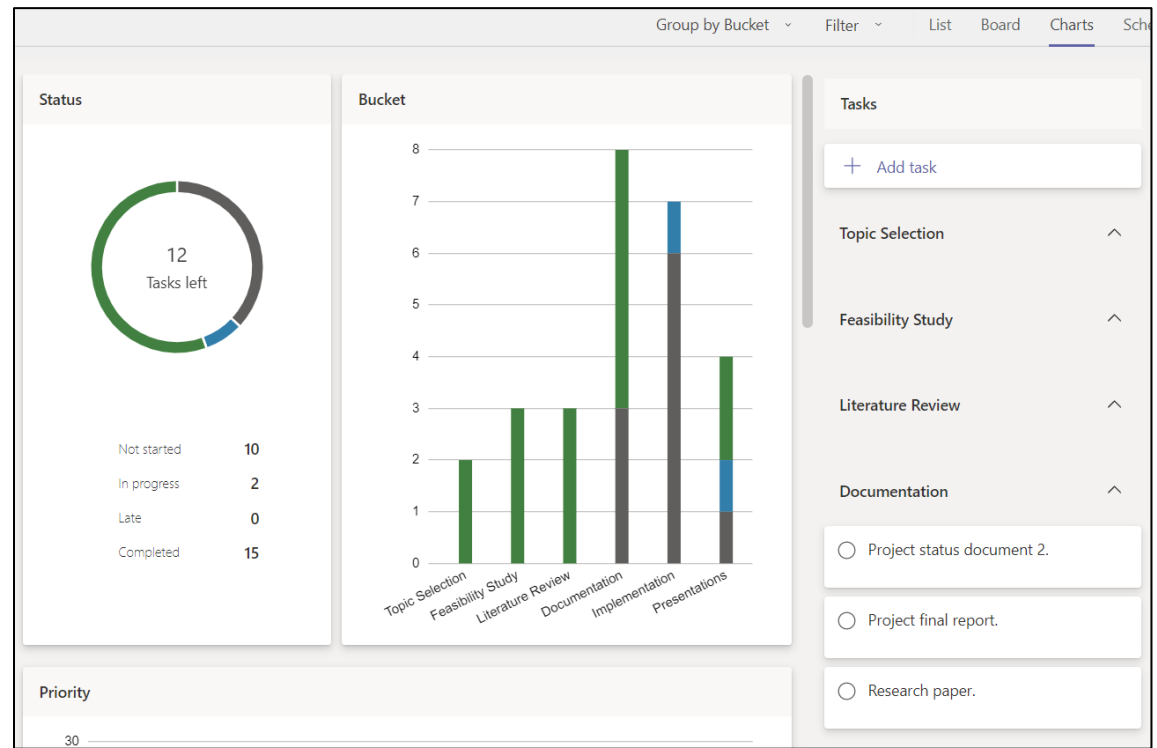


Figure 18: Teams Planner Charts.

## 5. Gantt Chart

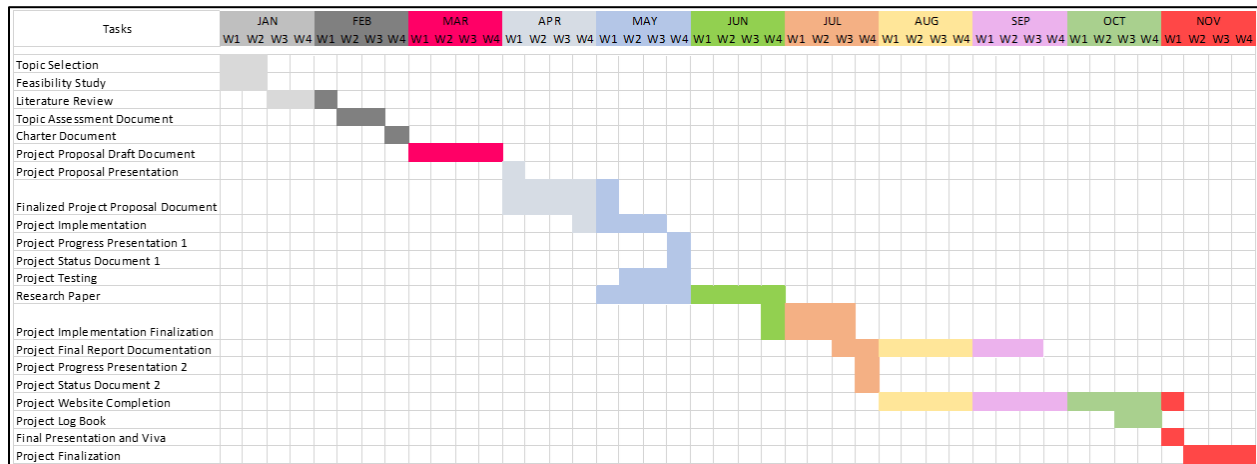


Figure 19: Gantt Chart.

## 6. Work Breakdown Structure

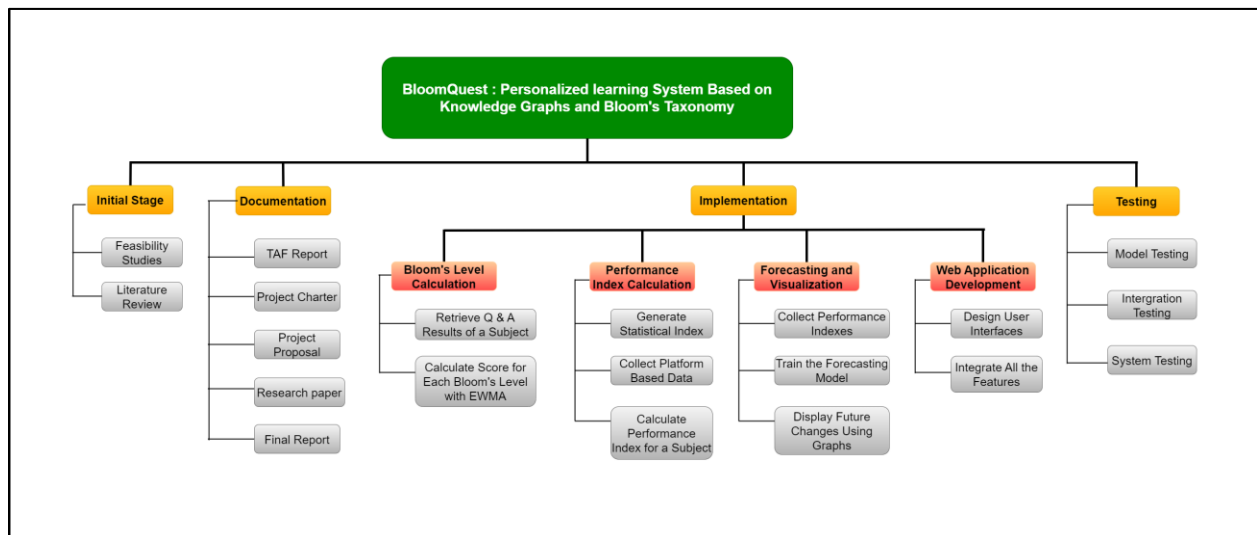
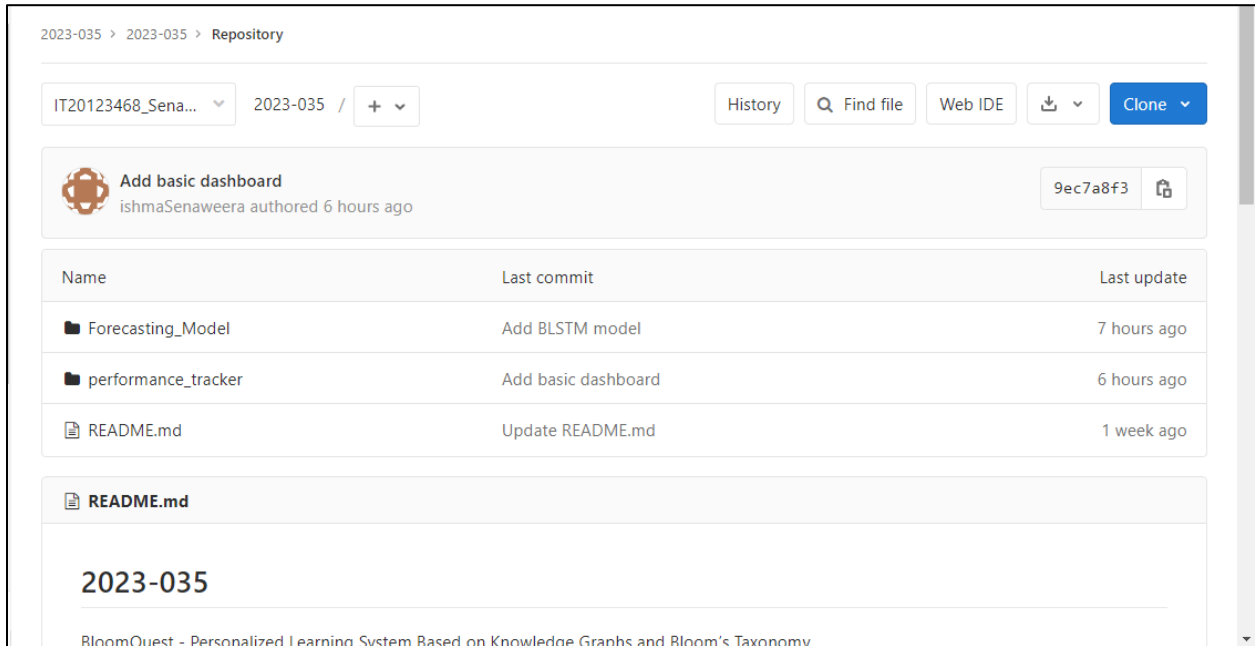




Figure 20: Work Breakdown Structure.




## 7. Gitlab




2023-035 > 2023-035 > Repository

IT20123468\_Sena... 2023-035 / + ▾ History Find file Web IDE 9ec7a8f3 Clone ▾

 **Add basic dashboard**  
ishmaSenaweera authored 6 hours ago 9ec7a8f3 

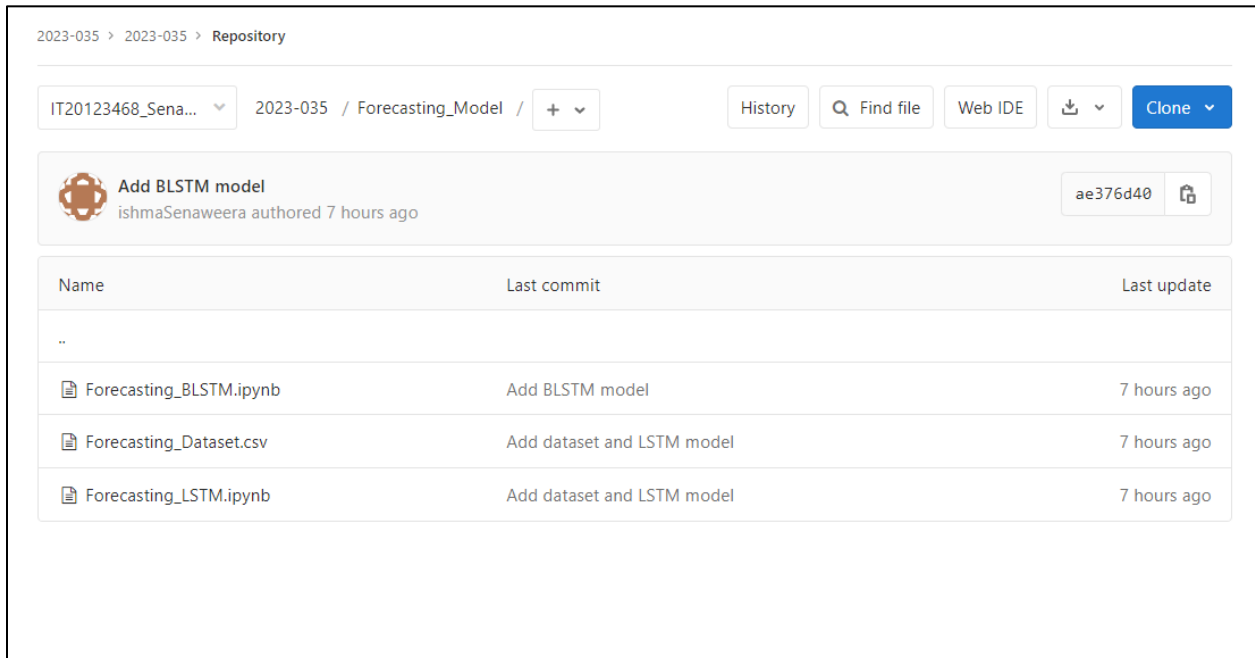
Name	Last commit	Last update
 Forecasting_Model	Add BLSTM model	7 hours ago
 performance_tracker	Add basic dashboard	6 hours ago
 README.md	Update README.md	1 week ago

 **README.md**

2023-035



BloomQuest - Personalized Learning System Based on Knowledge Graphs and Bloom's Taxonomy

Figure 21: Commits to Branch – 1.



2023-035 > 2023-035 > Repository

IT20123468\_Sena... 2023-035 / Forecasting\_Model / + ▾ History Find file Web IDE ae376d40 Clone ▾

 **Add BLSTM model**  
ishmaSenaweera authored 7 hours ago ae376d40 




Name	Last commit	Last update
..		
 Forecasting_BLSTM.ipynb	Add BLSTM model	7 hours ago
 Forecasting_Dataset.csv	Add dataset and LSTM model	7 hours ago
 Forecasting_LSTM.ipynb	Add dataset and LSTM model	7 hours ago

Figure 22: Commits to Branch - 2.

2023-035 > 2023-035 > Repository

IT20123468\_Sena... 2023-035 / performance\_tracker / src / +


History

Find file

Web IDE

9ec7a8f3

Clone



Add basic dashboard

ishmaSenaweera authored 6 hours ago

9ec7a8f3

Name	Last commit	Last update
..		
calculations	Add basic dashboard	6 hours ago
components	Add basic dashboard	6 hours ago
images	Add basic dashboard	6 hours ago
styles	Add basic dashboard	6 hours ago
App.css	Add basic dashboard	6 hours ago
App.js	Add basic dashboard	6 hours ago

Figure 23: Commits to Branch - 3.

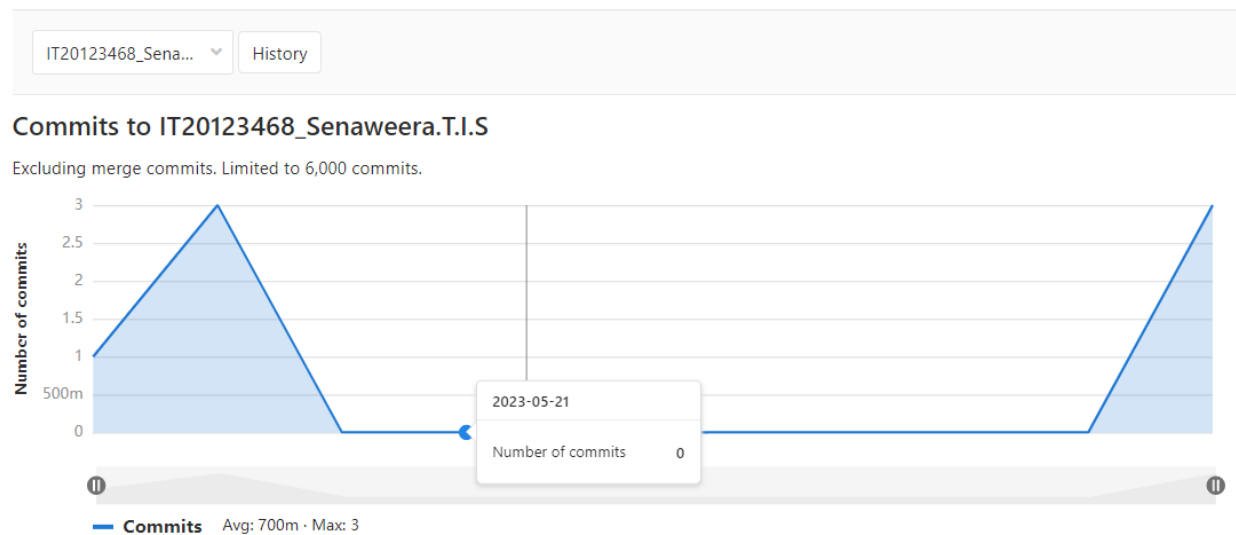


Figure 24: Contribution.