

# **UNIFIED DLP SOLUTIONS FOR EMAIL SYSTEM**

**Project Id: TMP-2023-24-082**

Status Document - 02

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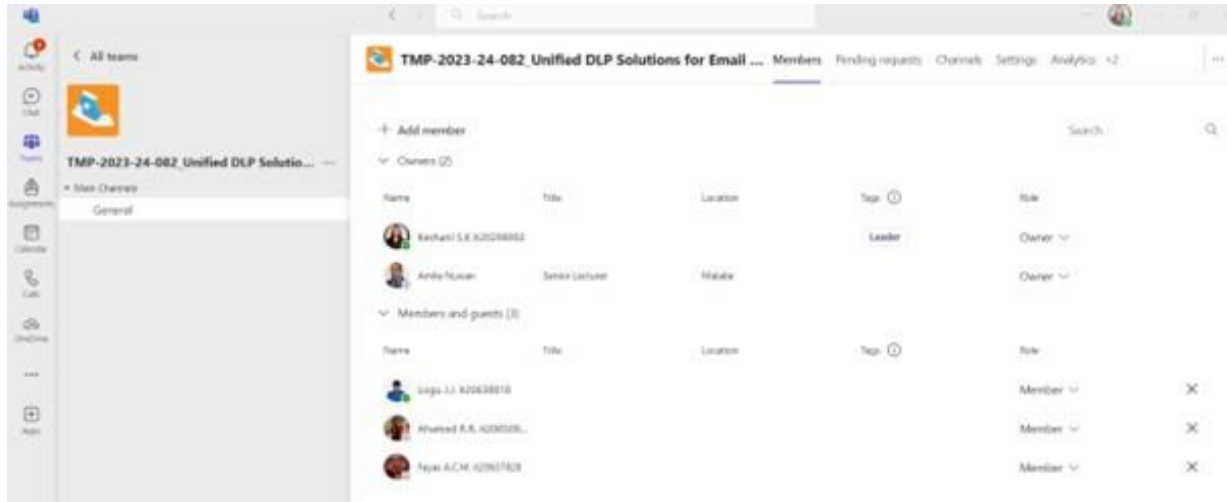
March 2024

## Table of Contents

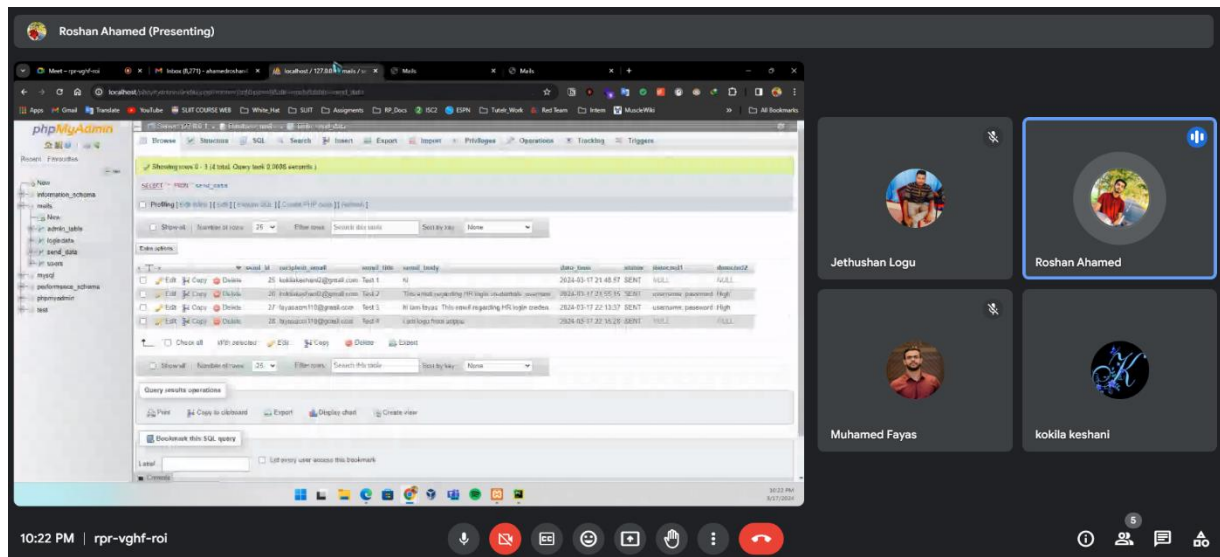
1. Microsoft Teams Details .....	3
1.1 Team Members .....	3
1.2 Team Meeting with Group Members .....	3
1.3 Team meeting with Supervisor.....	4
2. Microsoft team analytics .....	6
2.2 Planner Board .....	6
2.2 Team Planner Charts.....	8
3. WhatsApp chat with Supervisor .....	8
4. WhatsApp Call and Chat with Team.....	9
5. Email and planned Teams Events ..	<b>Error! Bookmark not defined.</b>
6. Gantt Chart .....	11
7. Work Breakdown Structure (WBS) .....	11
8. Gitlab Commits .....	12

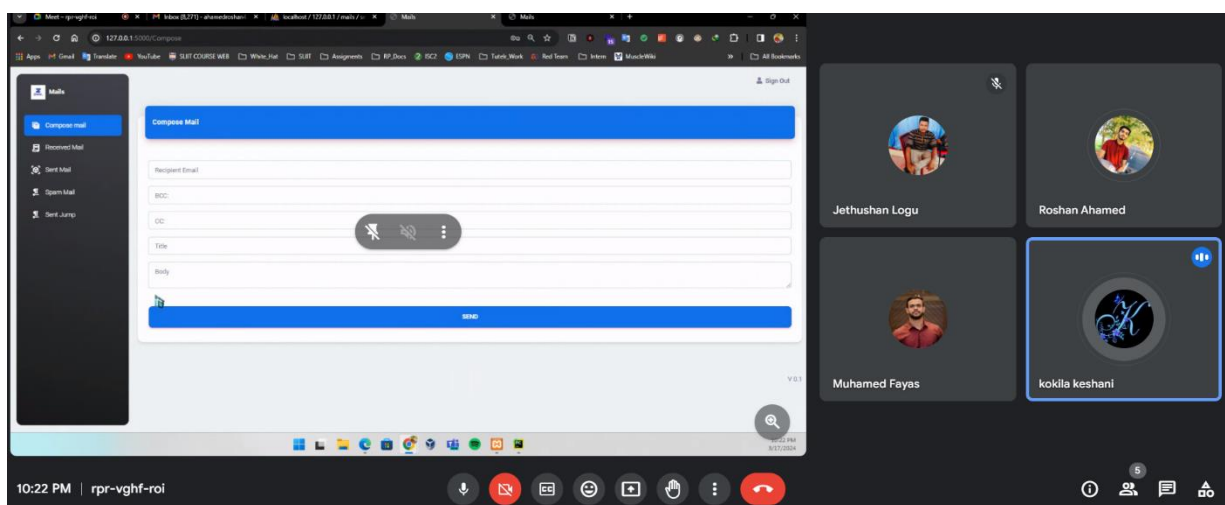
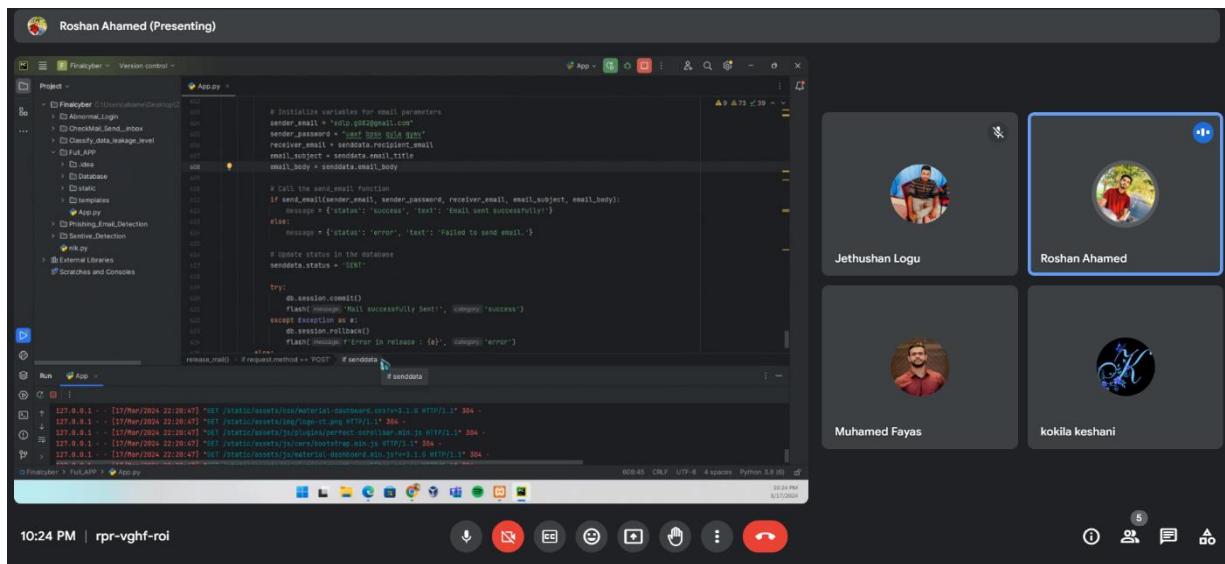
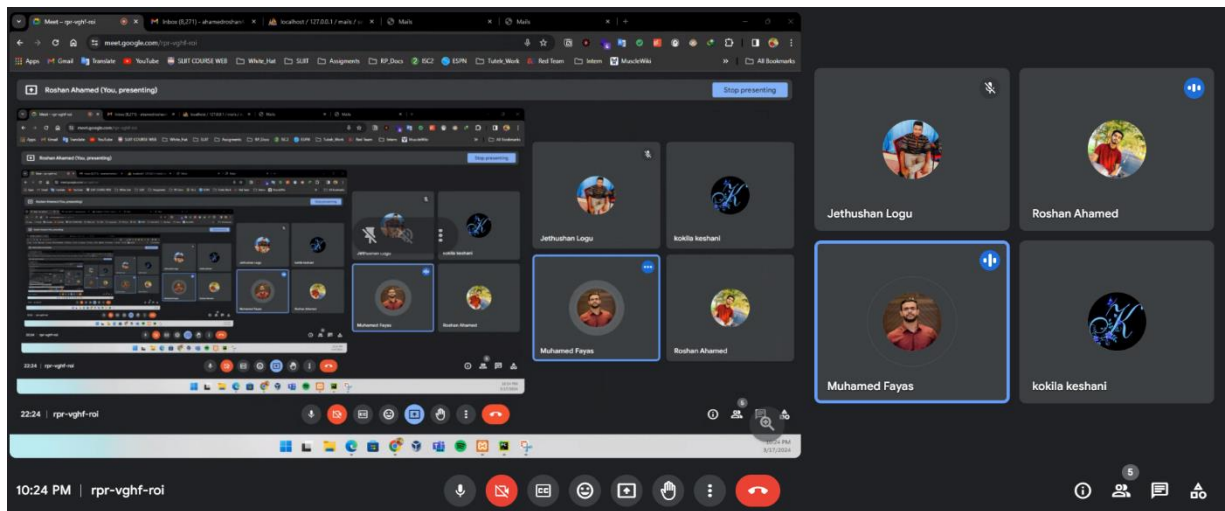
## 1. Microsoft Teams Details

## 1.1 Team Members

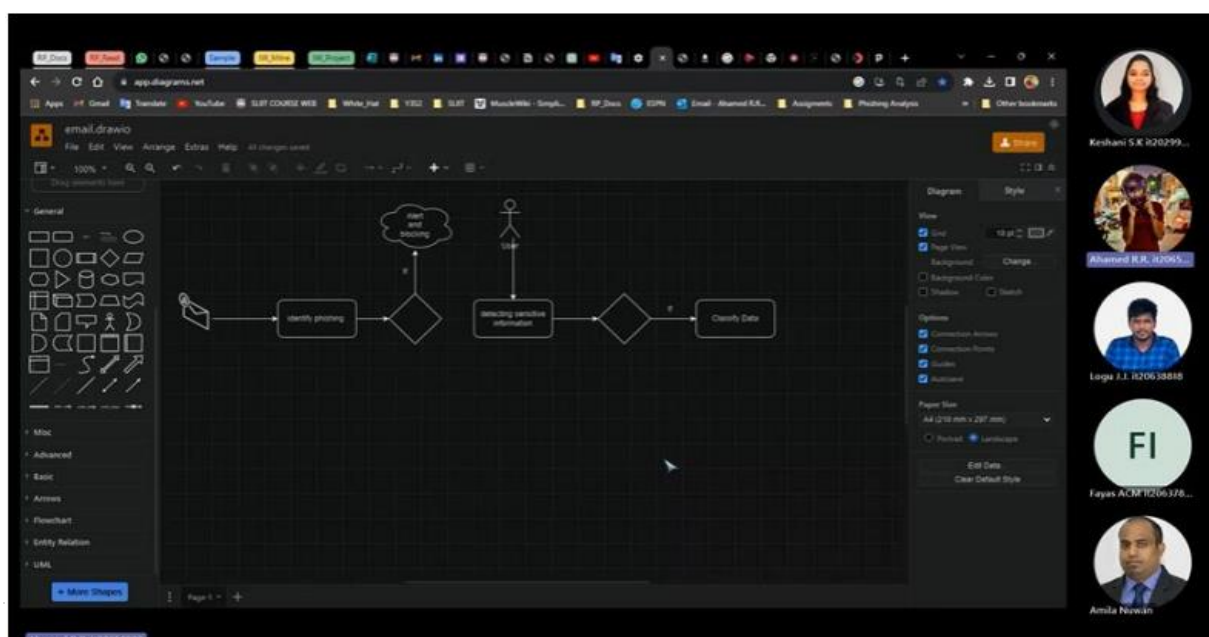
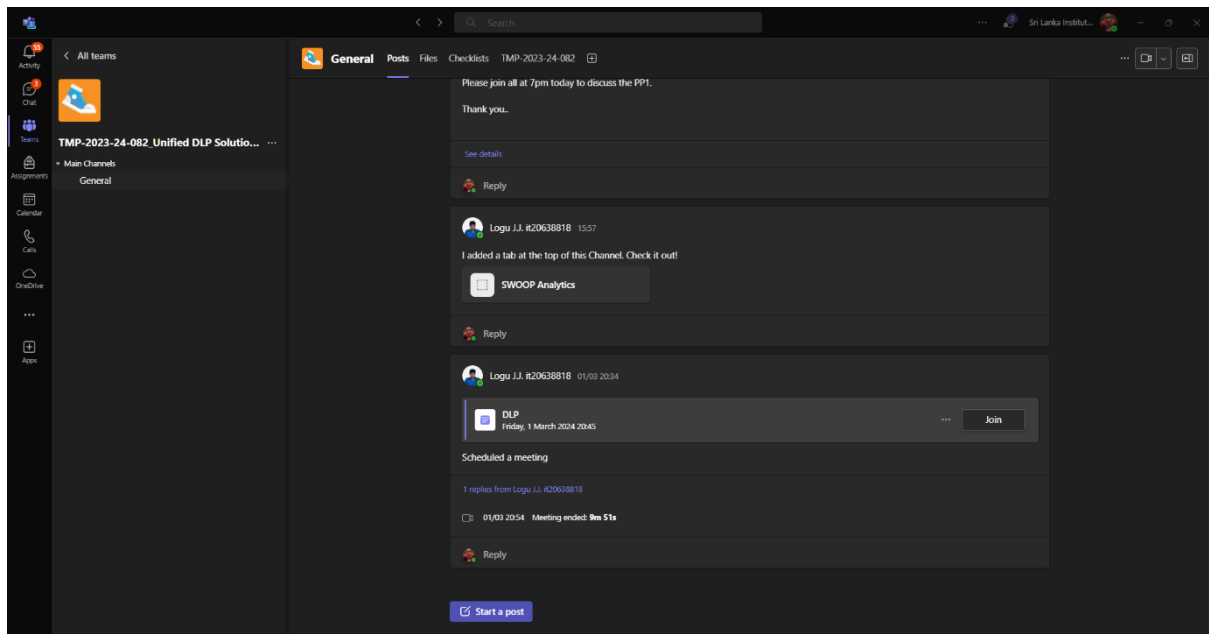
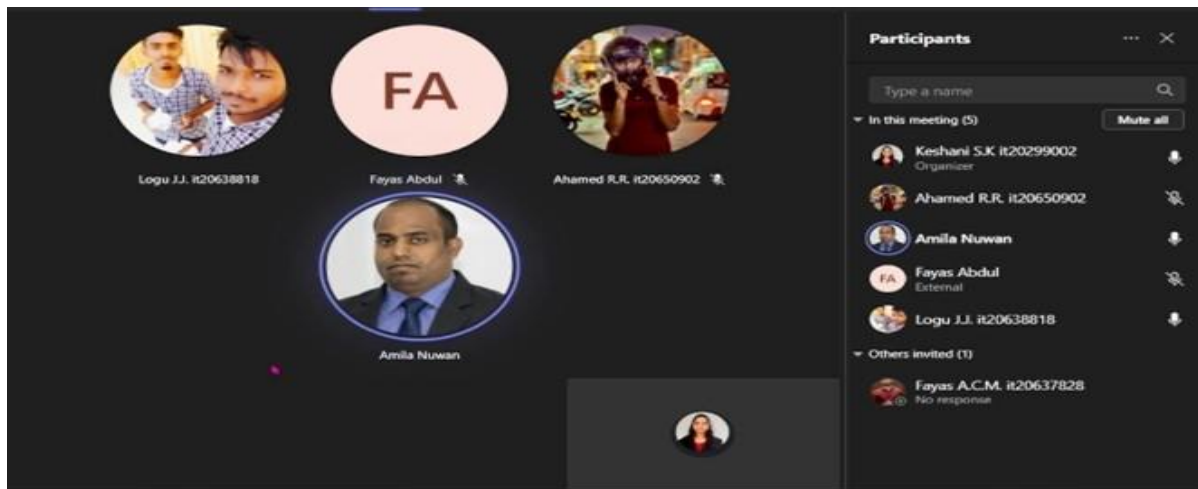


## 1.2 Team meeting with Group Members

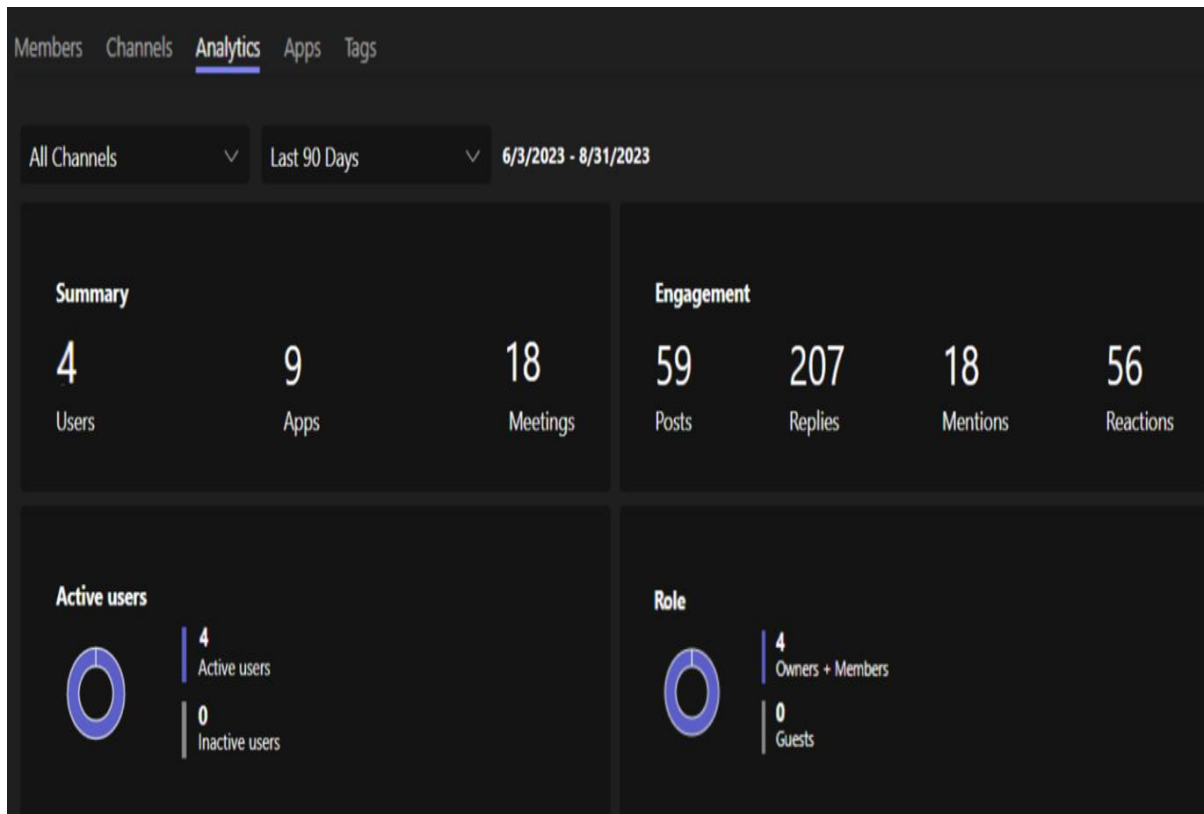




### 1.3 Team Meeting with Supervisor



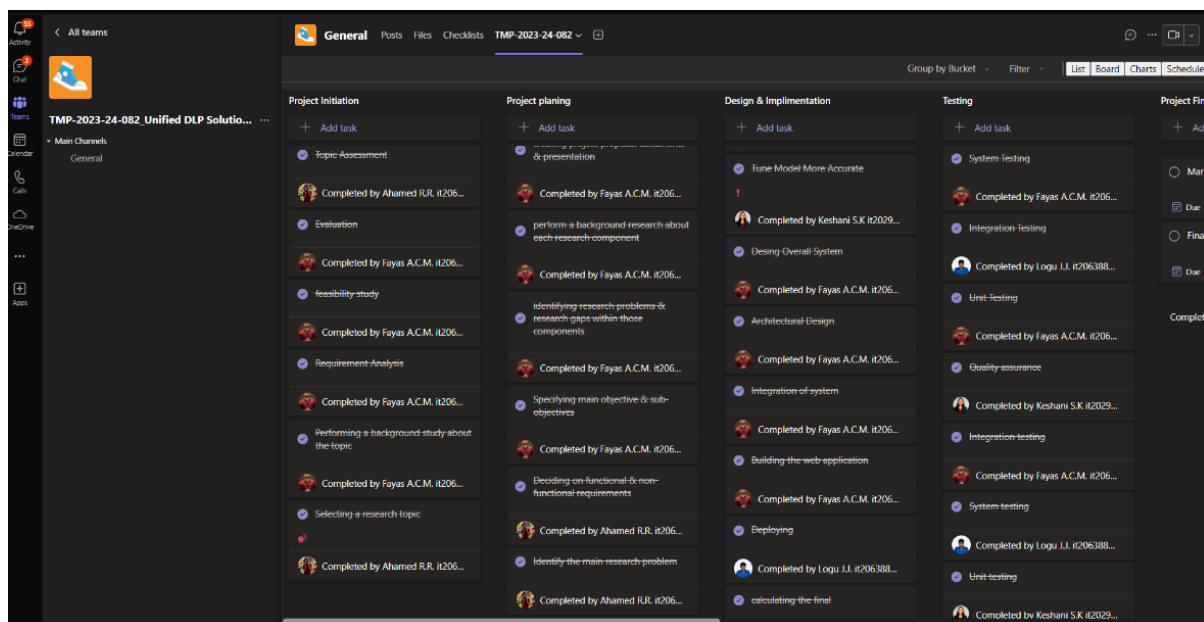
## 2. Microsoft team analytics

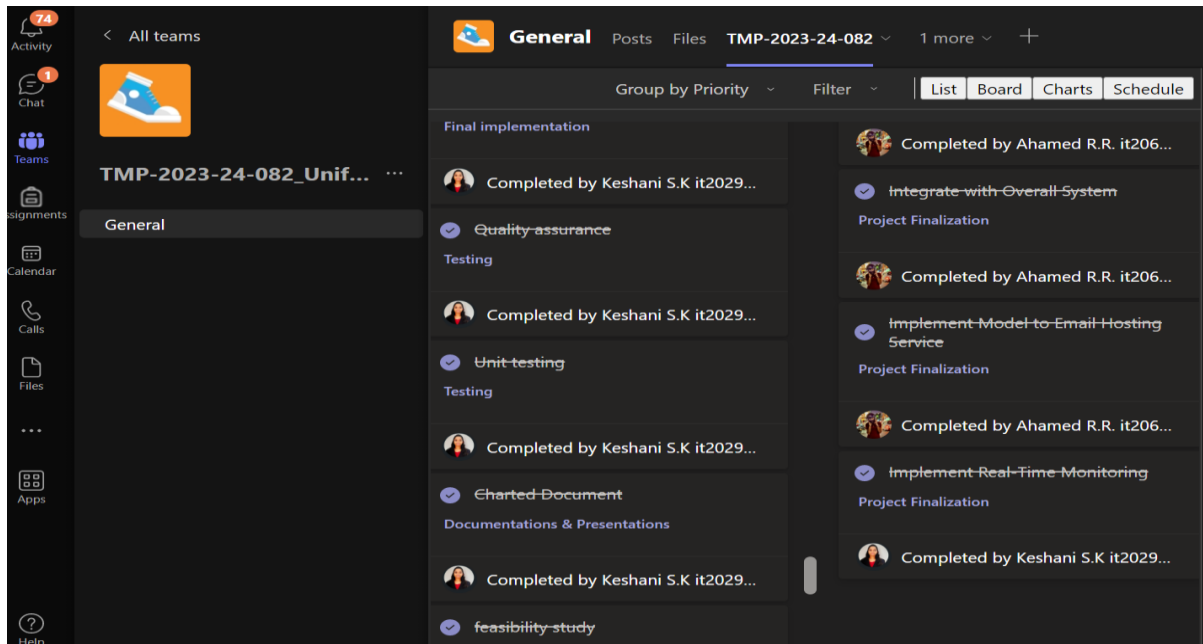


## 3. MS team's planner

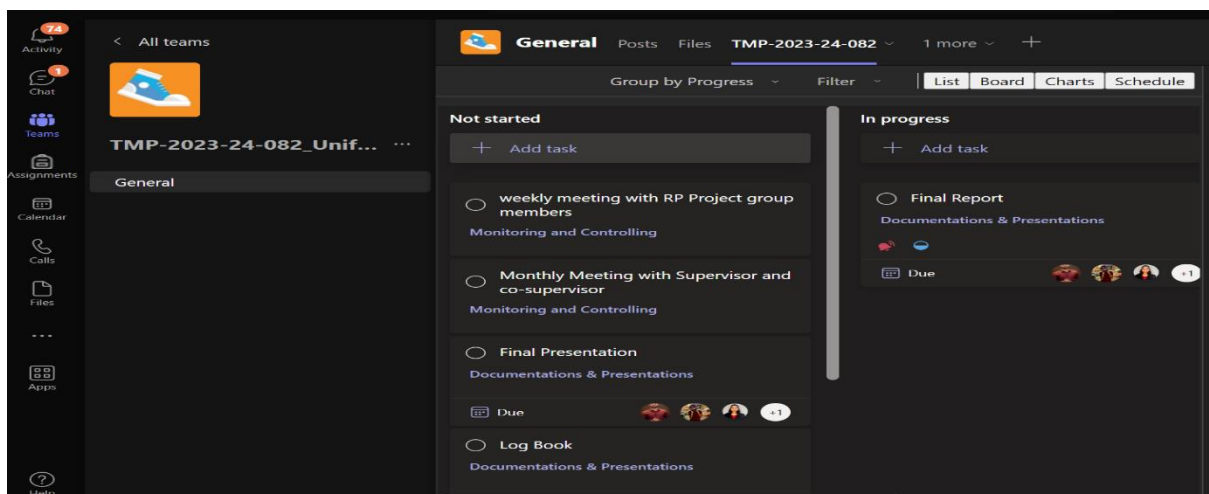
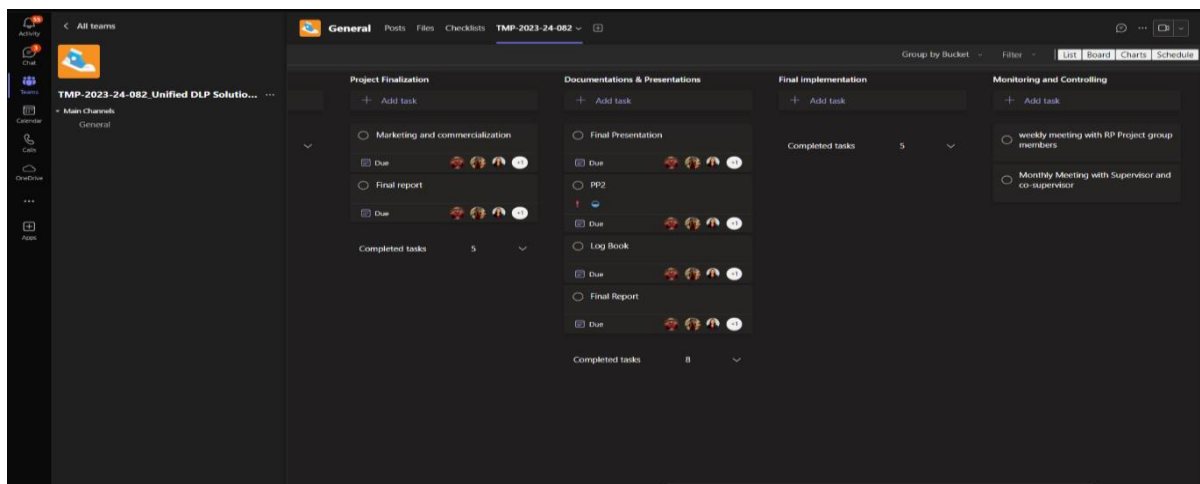
### 2.2 Planner Board

#### Completed Tasks



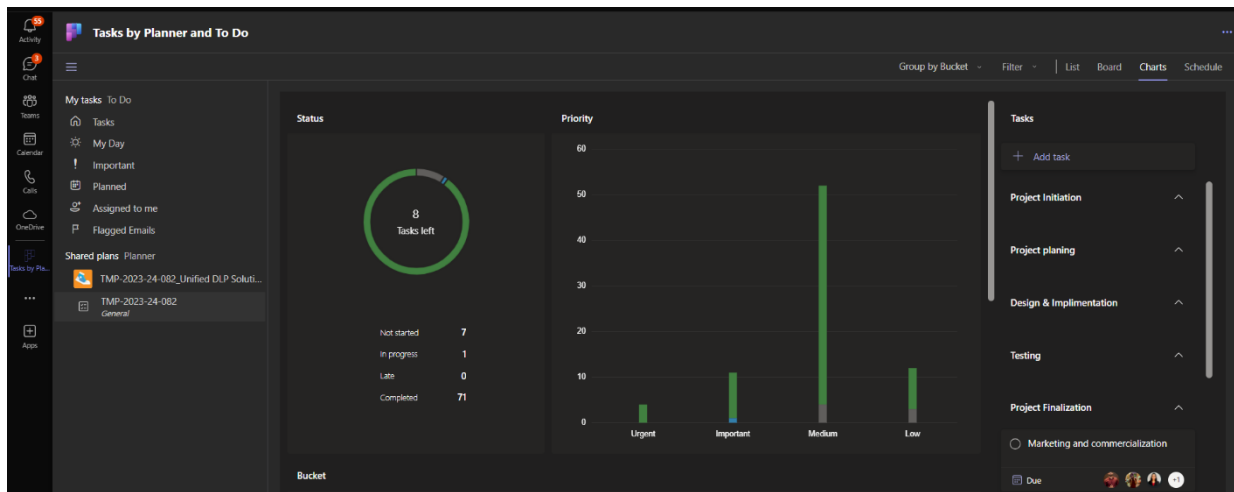


## Pending Tasks

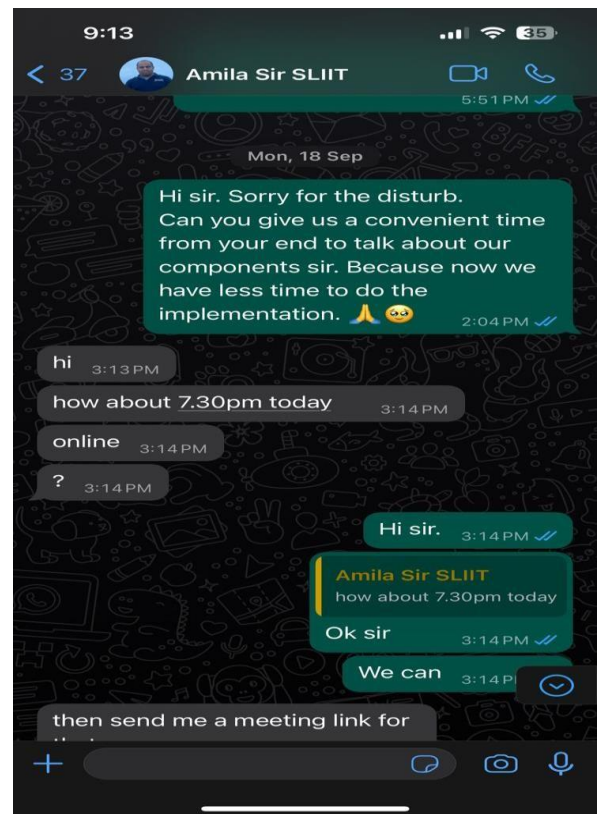
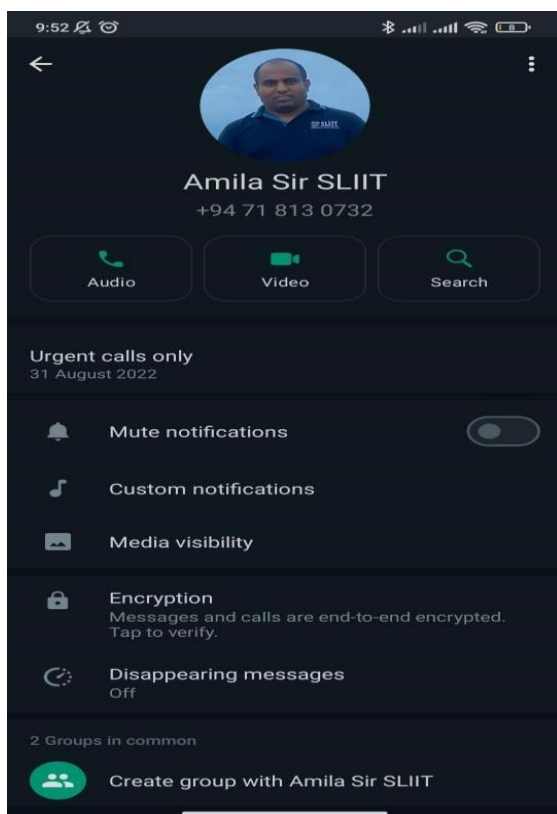




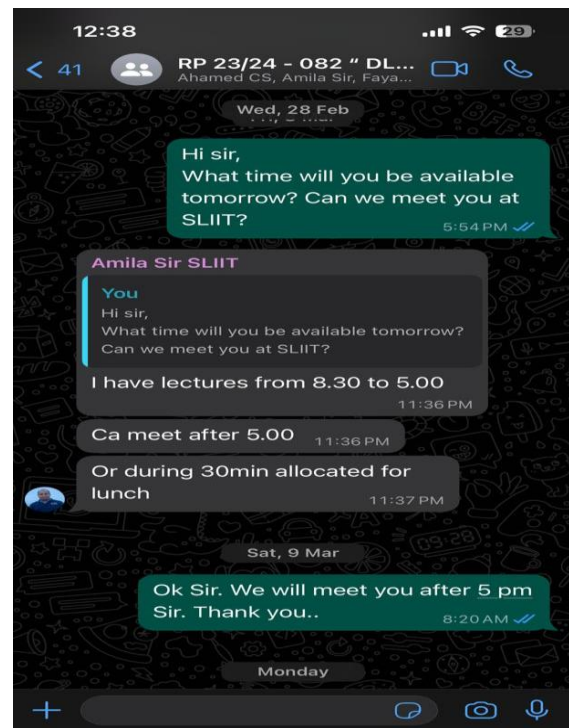
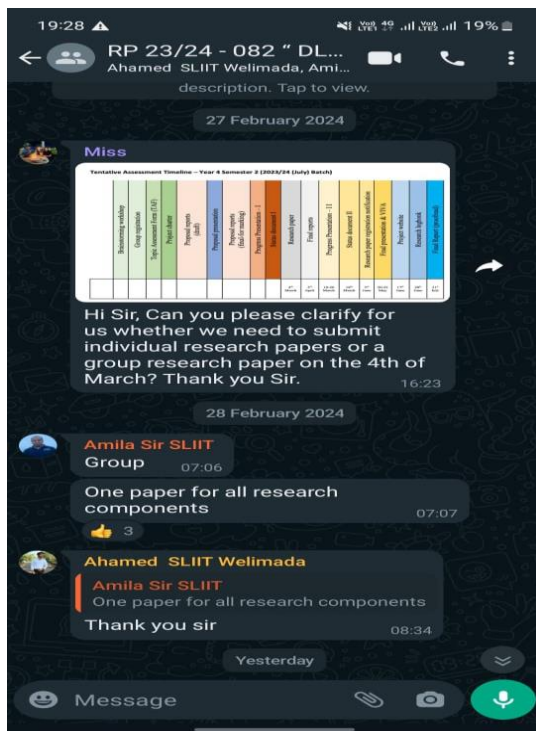
## 2.2 Team Planner Charts



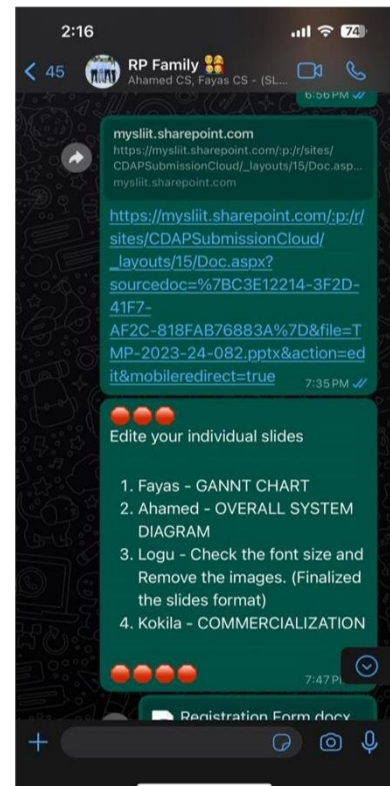
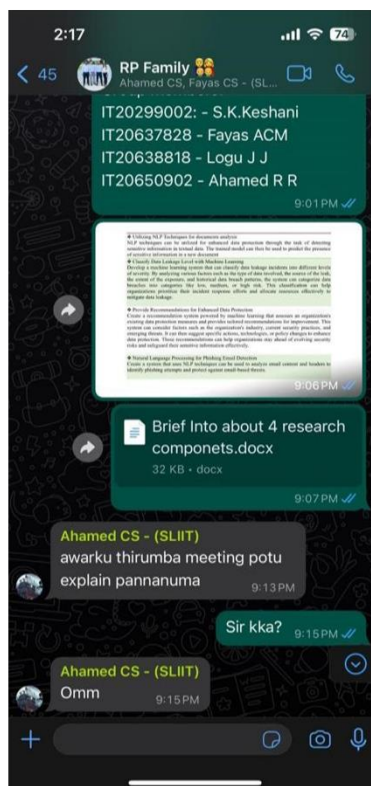
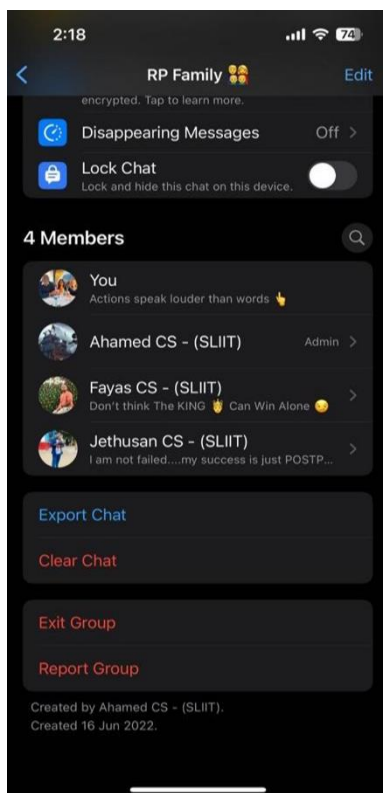
## 3. WhatsApp chat with Supervisor







## 4. WhatsApp Call and Chat with Team



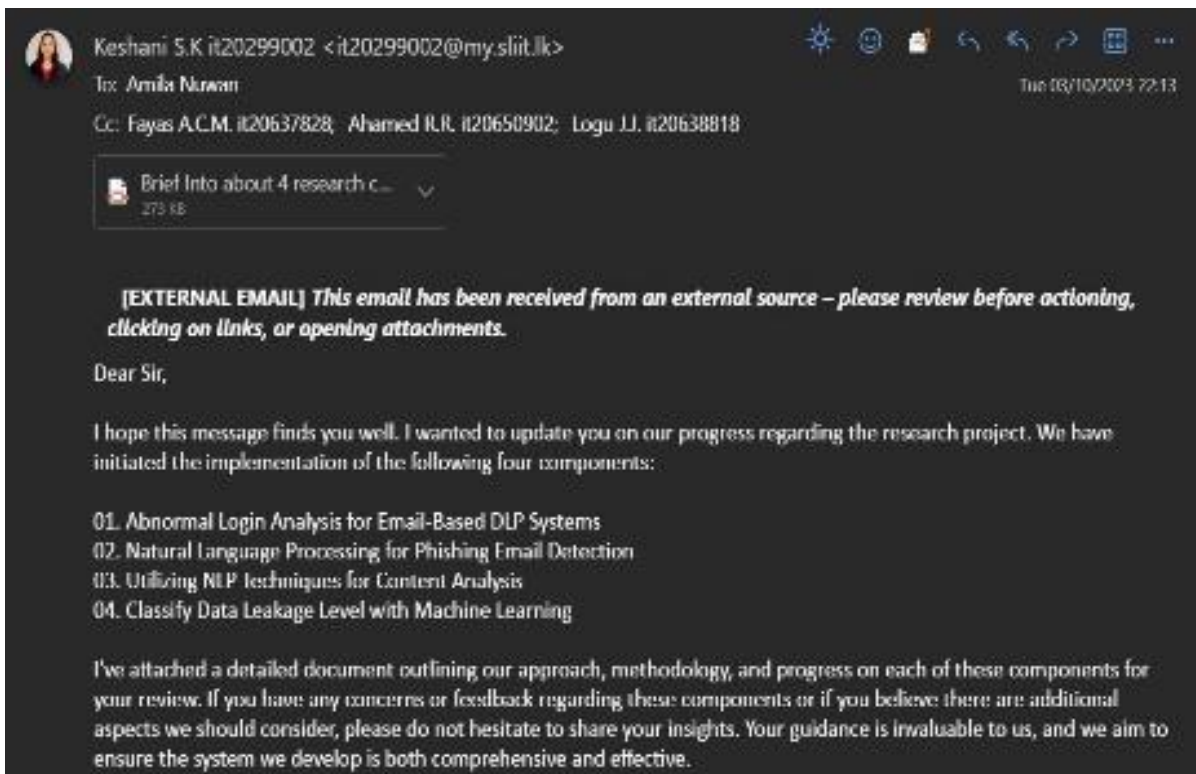
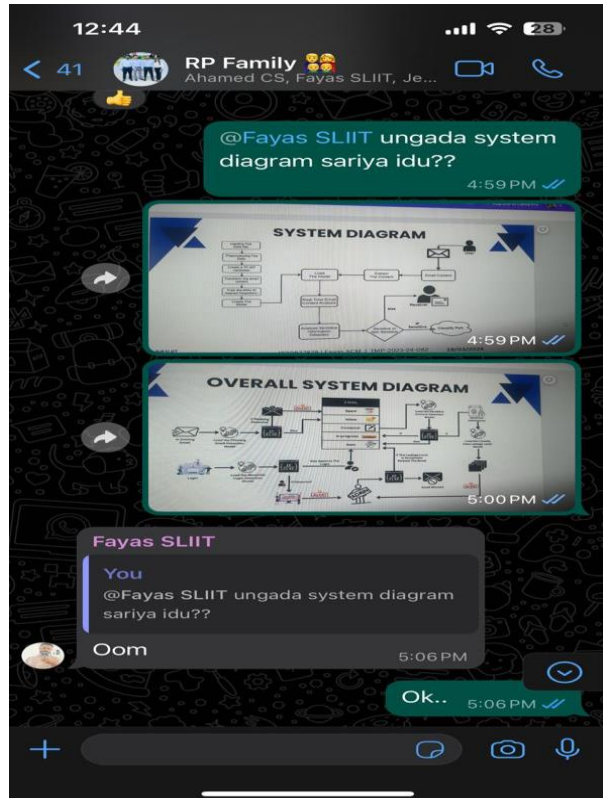
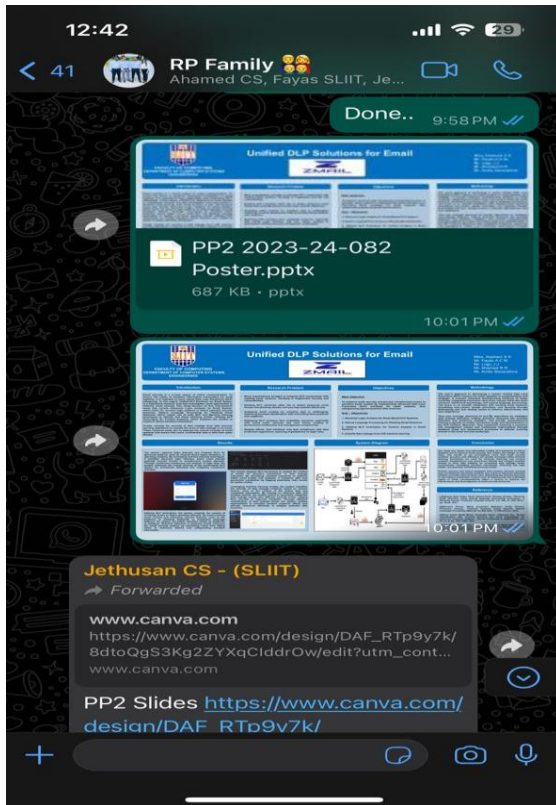
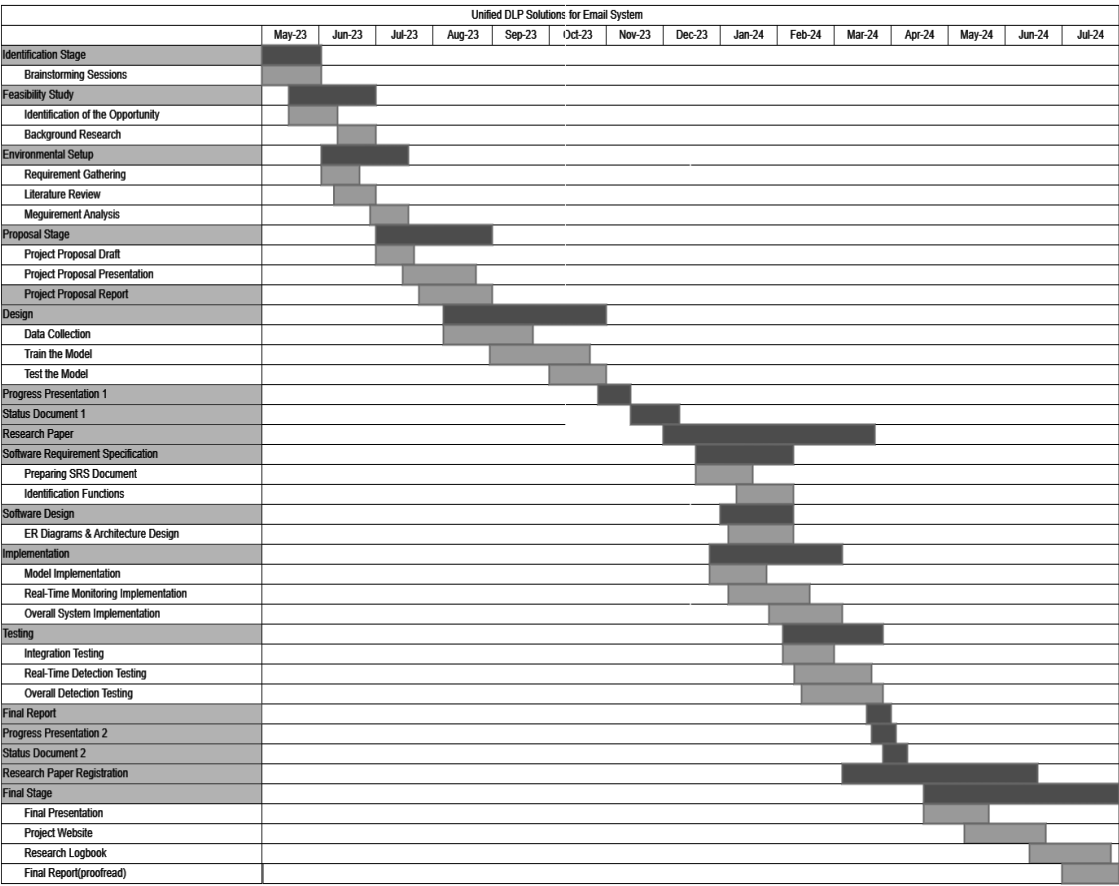
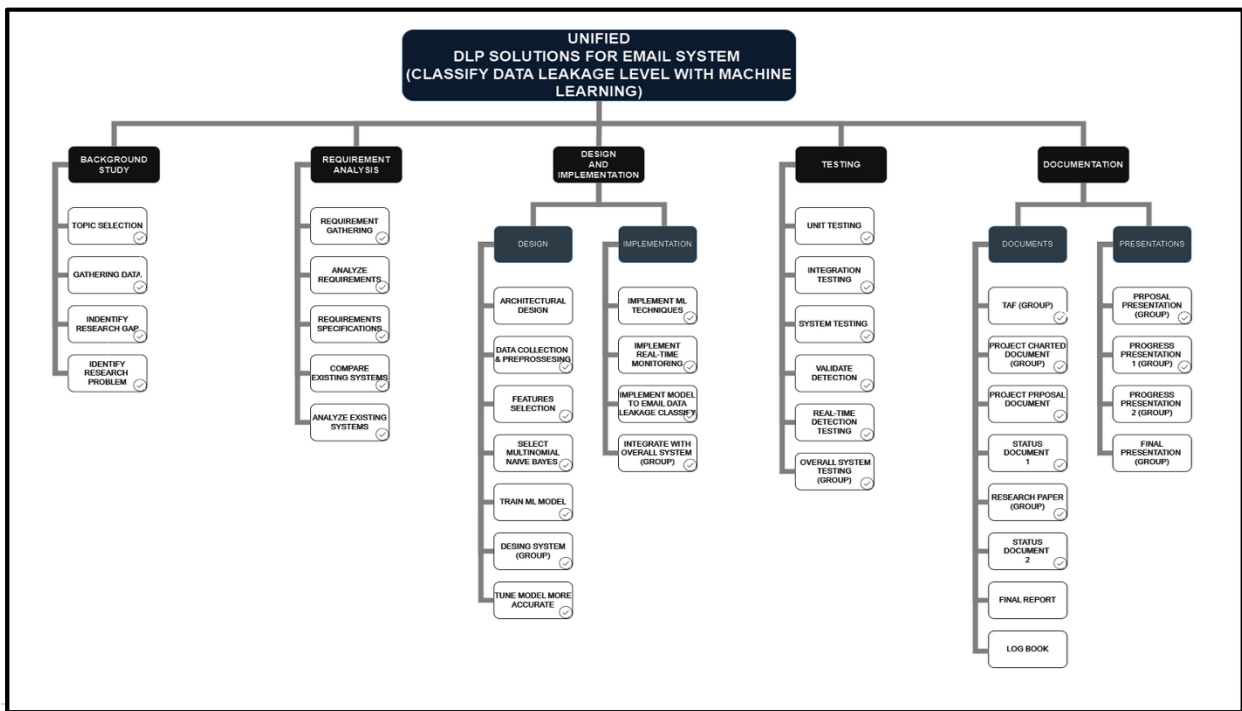


Fig: Email Communication with Supervisor

## 6. Gantt Chart



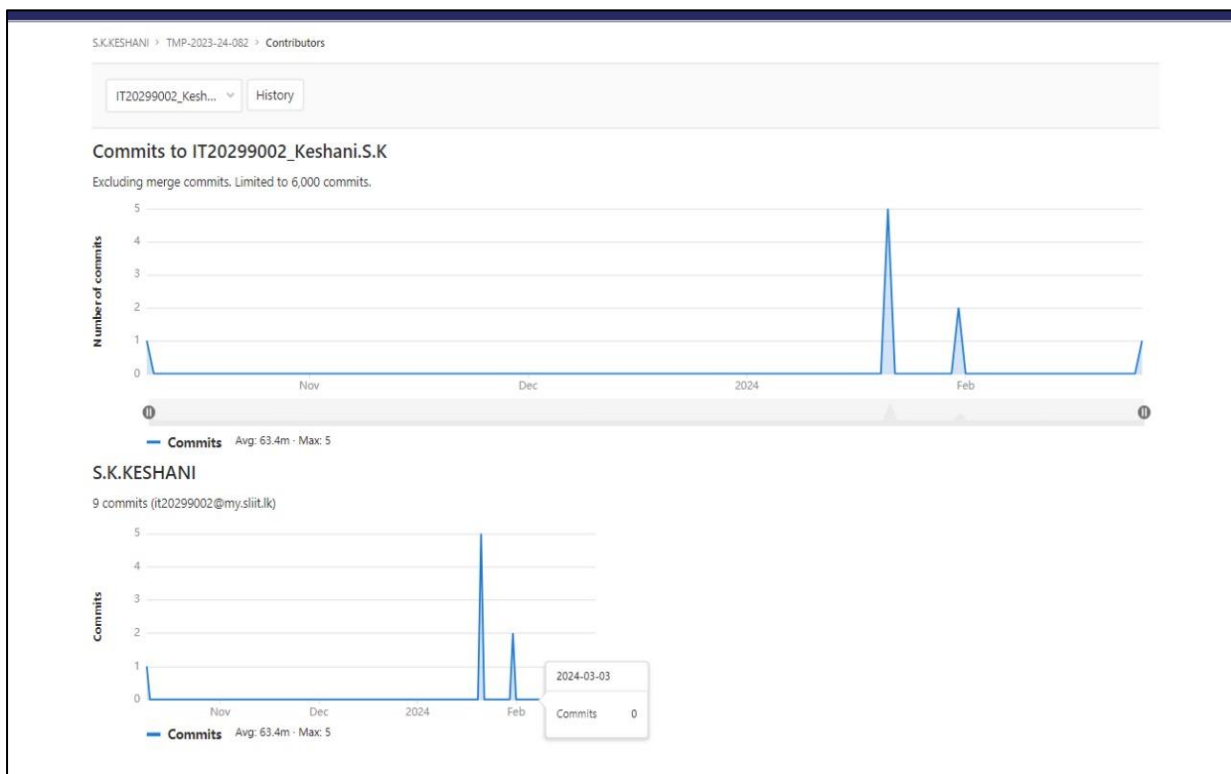
## 7. Work Breakdown Structure (WBS)



## 8. Gitlab Commits

The screenshot shows the GitLab interface for the project **TMP-2023-24-082**. The left sidebar contains navigation links: Project overview, Repository, Issues, Merge Requests, CI / CD, Operations, Analytics, Wiki, Snippets, Settings (General, Members), and Members. The main content area is titled **Project members** and includes a sub-header **Existing members and groups**. Below this, a table lists the members of the project:

Members of TMP-2023-24-082	Find existing members by name	Sort by	Name, ascending
Amila Nuwan Senarathne @amilasenarathne Given access 1 month ago	Maintainer	Expiration date	
Fayas ACM @fayasacm Given access 2 months ago	Developer	Expiration date	
Julyas jethusan logu @jethusan Given access 1 month ago	Developer	Expiration date	
Rallideen Roshan Ahamed @IT20650902_AhamedRR Given access 1 month ago	Developer	Expiration date	
S.K.KESHANI @KESHANI Given access 2 months ago	Maintainer		





You pushed to **IT20299002\_Keshani.S.K** just now[Create merge request](#)

IT20299002\_Kesh... tmp-2023-24-082 / + ▾

[History](#)[Find file](#)[Web IDE](#)[Download](#) ▾[Clone](#) ▾**Add new directory**

S.K.KESHANI authored 37 seconds ago

b732c474



Name	Last commit	Last update
App	Add new directory	37 seconds ago
Data_leakageModel.py	Upload New File	1 month ago
Predict_Risk.py	Upload New File	1 month ago
README.md	Update README.md	3 weeks ago
incident_classifier_model.joblib	Upload New File	1 month ago
incident_vectorizer.joblib	Upload New File	1 month ago
incidents.csv	Upload New File	1 month ago

**README.md****TMP-2023-24-082****Main Research Topic : Unified DLP for Email System****Sub Research Component : Classify data leakage level with machine learning****Induction and Background :-**

1. Rank threats based on their severity.
2. Allocate resources efficiently to handle potential breaches.
3. Inform stakeholders about the gravity of a leakage incident.
4. Take proactive measures depending on the predicted severity of a leak.

**RESEARCH PROBLEM**

1. Difficulty in identifying meaningful patterns and anomalies in large volumes of data.
2. Lack of effective tools and strategies for quick and accurate identification.
3. Need for minimizing the risk of data loss and reputational damage.

**Main Objectives:-** The core objective of classifying data leakage level using machine learning in a DLP system is to predict the potential impact of a data leak, enabling organizations to respond appropriately and minimize damage.

**Sub Objectives :-**

1. Model Validation and Testing
2. Interactive Classification Dashboard
3. Real-time Alerting System
4. Data Masking and Auto-Redaction
5. Confidence Scoring