

UNIFIED DLP SOLUTIONS FOR EMAIL SYSTEM

Project Id: TMP-2023-24-082

Status Document - 01

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B.Sc. (Hons) Degree in Information Technology

Specialization in Cyber Security

Department of Information Technology

Sri Lanka Institute of Information Technology

Sri Lanka

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1. Microsoft Teams Details

1.1 Team Members

The screenshot shows the 'Members' tab of a Microsoft Teams team. The team name is 'TMP-2023-24-082_Unified DLP Solutions for Email ...'. The interface includes a search bar at the top right and a list of members and guests. The members are categorized into 'Owners (2)' and 'Members and guests (3)'. The 'Owners' list includes Keshani S.K. (Leader) and Amila Nuwan. The 'Members and guests' list includes Logu J.J., Ahamed R.R., and Fayas A.C.M.

Name	Title	Location	Tags	Role
Keshani S.K. #20299002			Leader	Owner
Amila Nuwan	Senior Lecturer	Malabe		Owner
Logu J.J. #20638818				Member
Ahamed R.R. #20650902				Member
Fayas A.C.M. #20637828				Member

1.2 Team meeting with Group Members

The screenshot shows the 'Details' tab of a Microsoft Teams meeting. The meeting title is 'Microsoft Teams Meeting'. The meeting ID is 452 510 460 357. The meeting code is YPmAAu. The meeting is scheduled for 1 November 2023, 22:00 - 2 November 00:00. The meeting is organized by Keshani S.K. #20299002. The meeting is attended by Logu J.J. #20638818, Ahamed R.R. #20650902, and Fayas A.C.M. #20637828.

Microsoft Teams meeting

Join on your computer, mobile app or room device
[Click here to join the meeting](#)

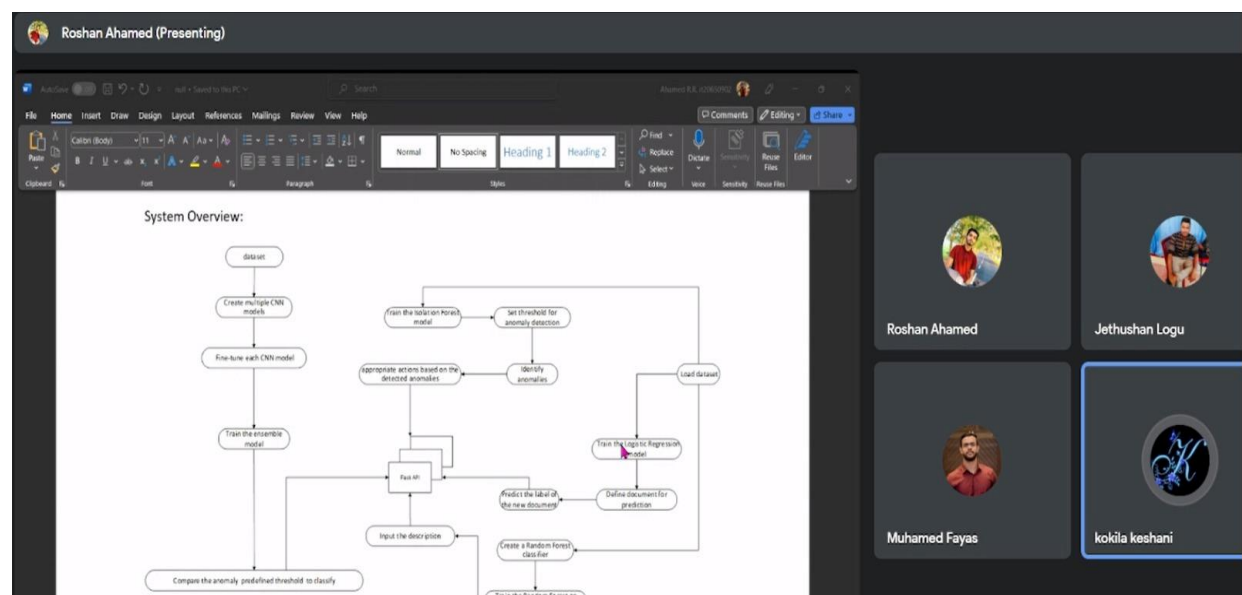
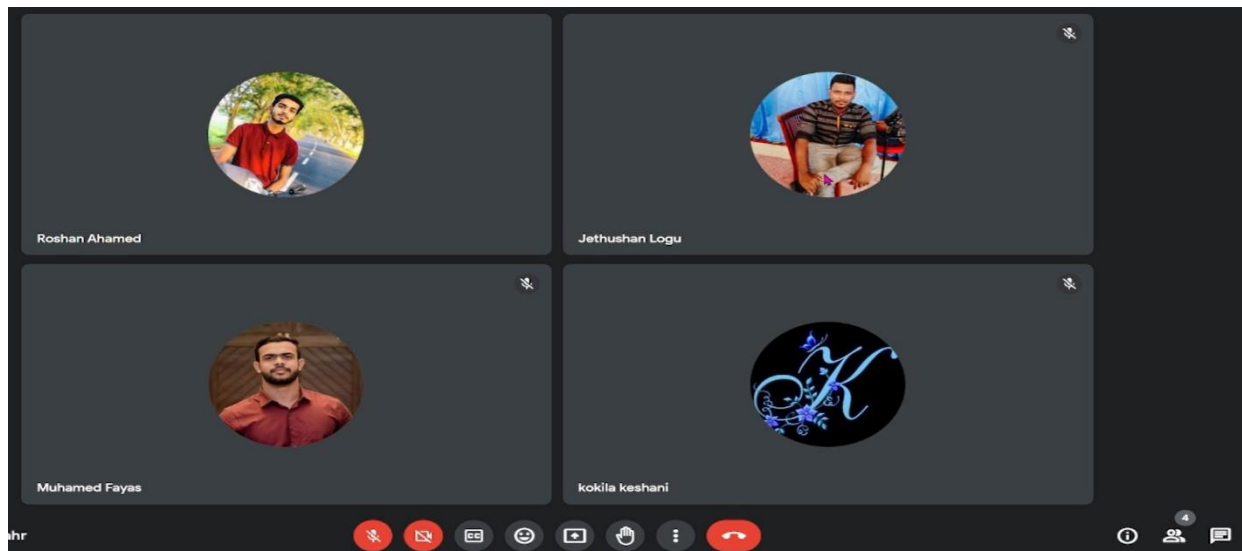
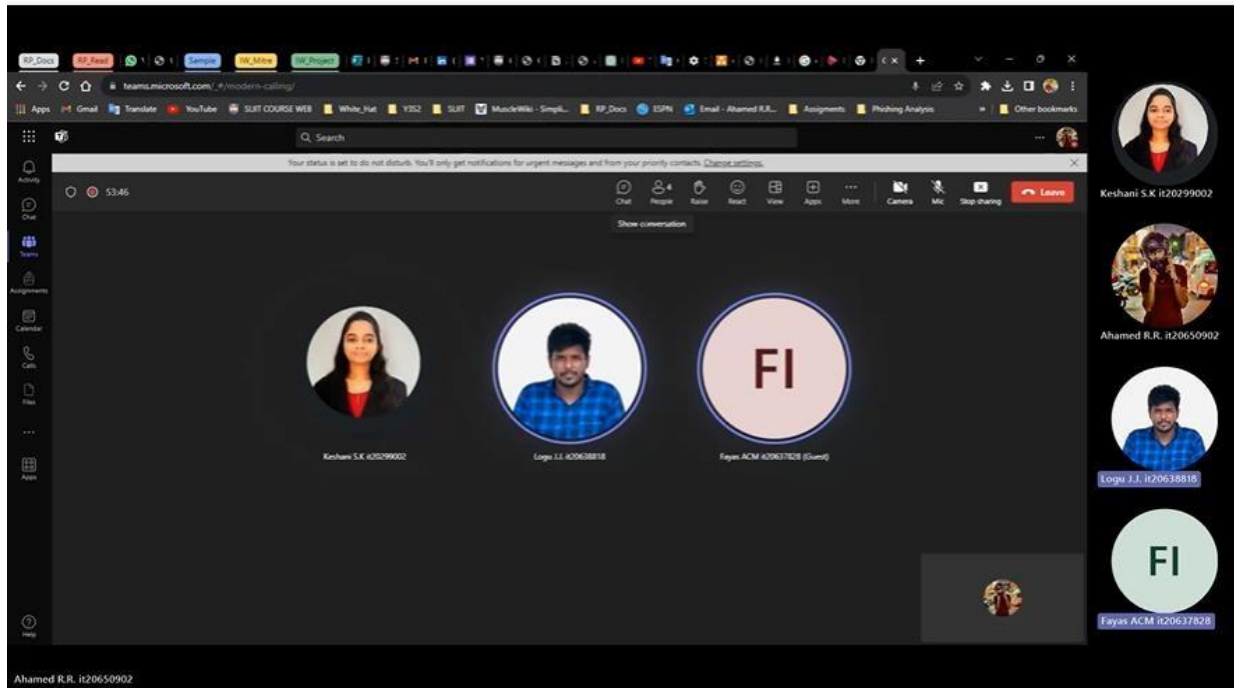
Meeting ID: 452 510 460 357
Passcode: YPmAAu
[Download Teams](#) | [Join on the web](#)
[Learn More](#) | [Meeting options](#)

The screenshot shows the 'Details' tab of a Microsoft Teams meeting. The meeting title is 'Microsoft Teams Meeting'. The meeting ID is 436 985 595 98. The meeting code is XvL94p. The meeting is scheduled for 4 October 2023, 19:00 - 20:00. The meeting is organized by Keshani S.K. #20299002. The meeting is attended by Fayas A.C.M. #20637828, Ahamed R.R. #20650902, and Logu J.J. #20638818.

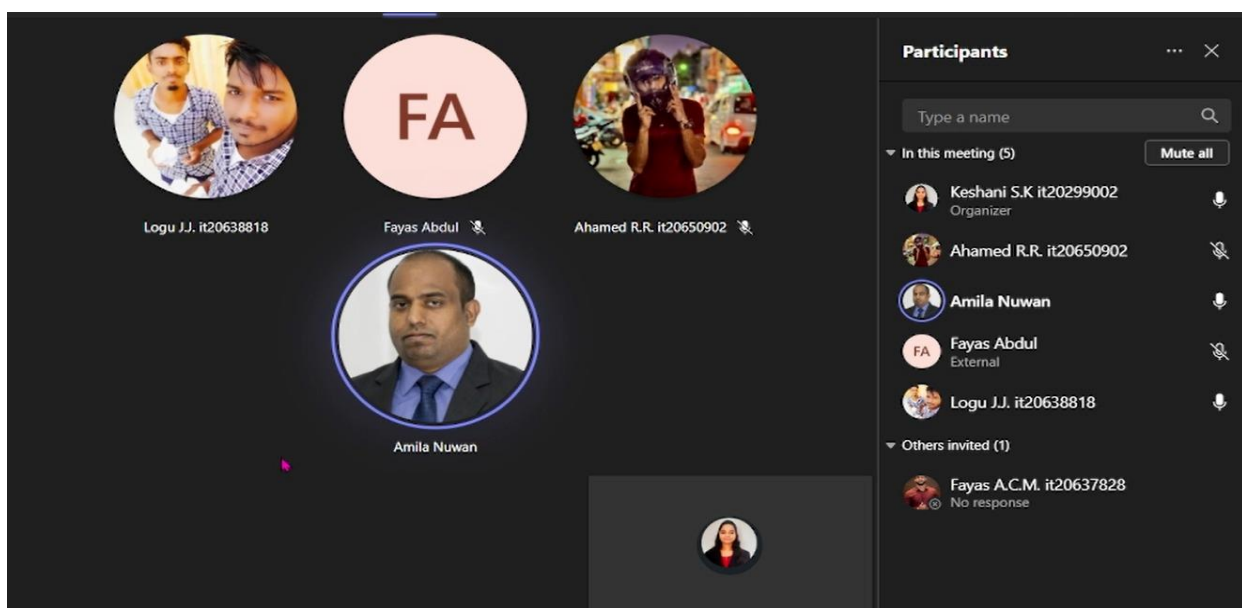
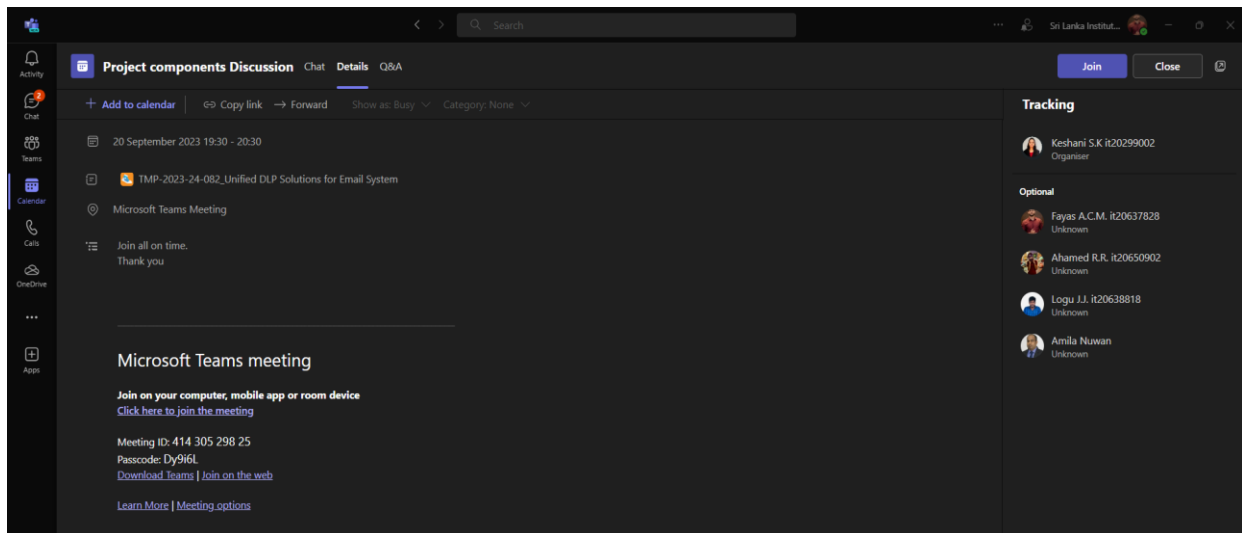
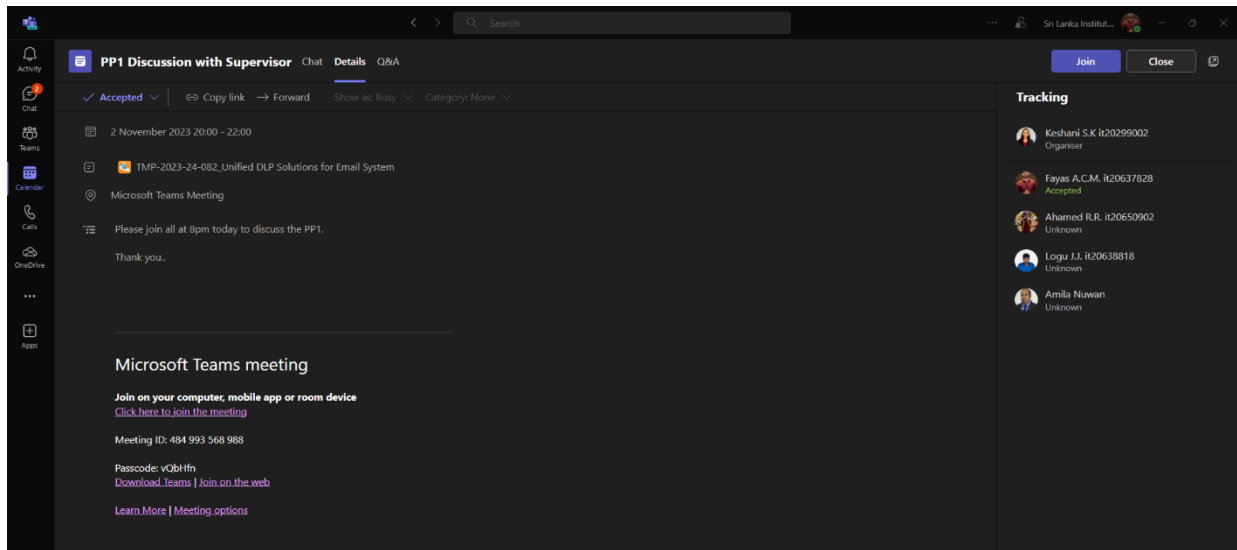
Microsoft Teams meeting

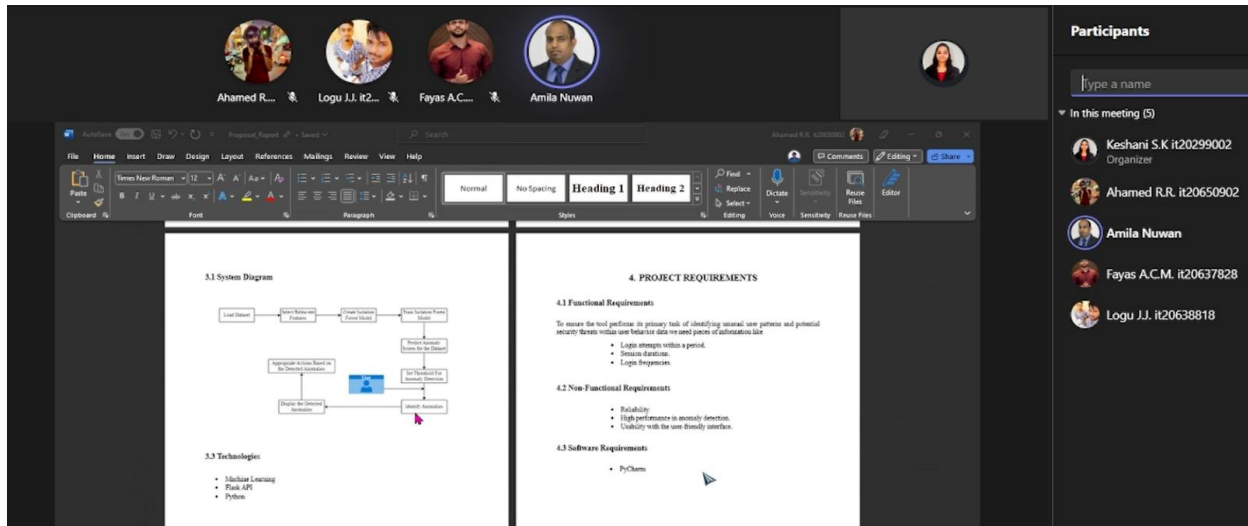
Join on your computer, mobile app or room device
[Click here to join the meeting](#)

Meeting ID: 436 985 595 98
Passcode: XvL94p
[Download Teams](#) | [Join on the web](#)
[Learn More](#) | [Meeting options](#)



1.3 Team Meeting with Supervisor





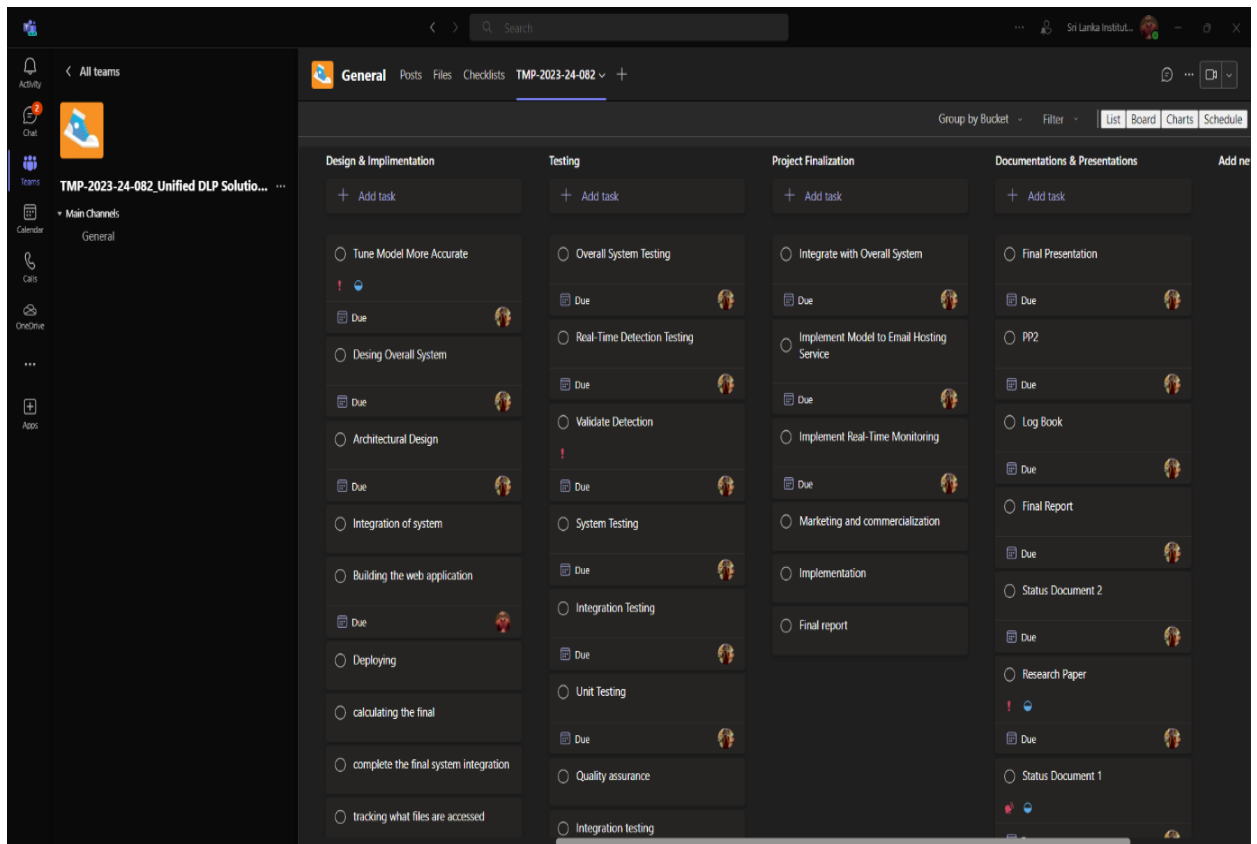
2. MS Teams Planner

2.2 Planner Board

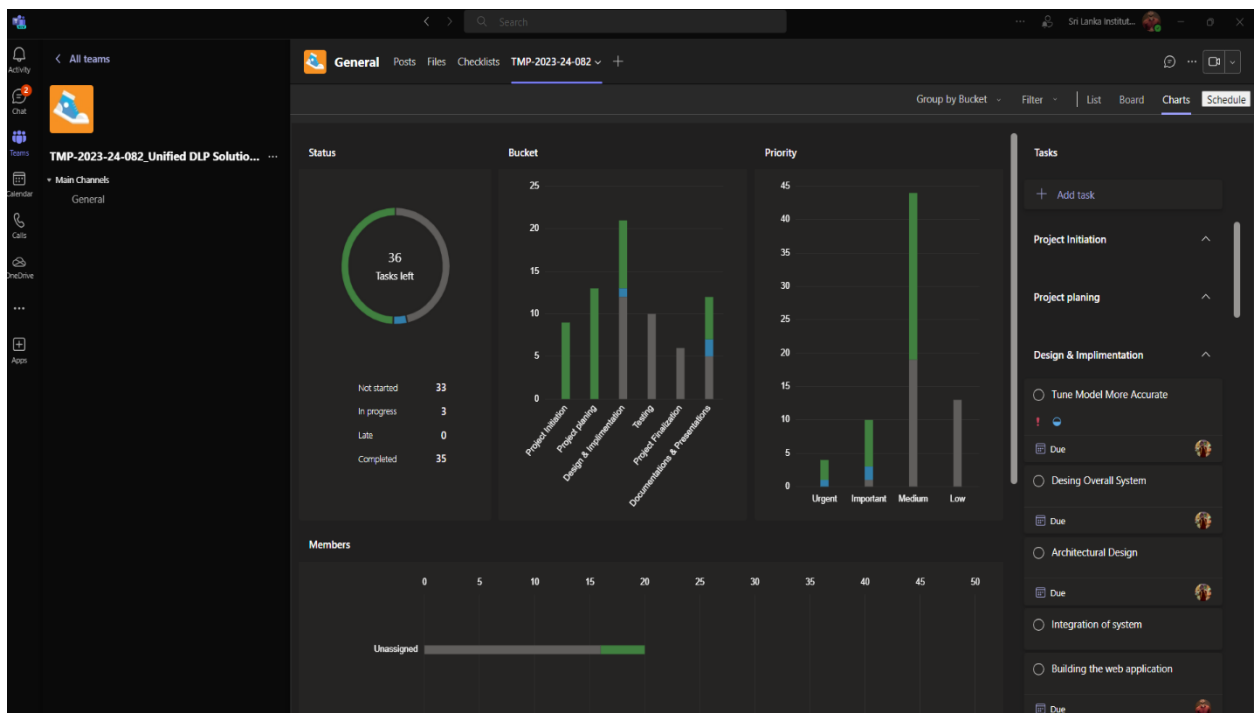
Completed Tasks

Project Initiation	Project planning
✓ Project-proposal-report Completed by Ahamed R.R. it206...	✓ Identify-related-data Completed by Logu J.J. it206388...
✓ Proposal-Presentation Completed by Ahamed R.R. it206...	✓ deciding-the-technologies-to-be-used Completed by Keshani S.K. it2029...
✓ Project-charter Completed by Keshani S.K. it2029...	✓ creating-a-work-breakdown-structure Completed by Ahamed R.R. it206...
✓ Topic-Assessment Completed by Ahamed R.R. it206...	✓ creating-a-gantt-chart Completed by Fayas A.C.M. it206...
✓ Evaluation Completed by Fayas A.C.M. it206...	✓ creating-project-proposal-documents & presentation Completed by Ahamed R.R. it206...
✓ feasibility study	✓ perform-a-background-research-about each-research-component

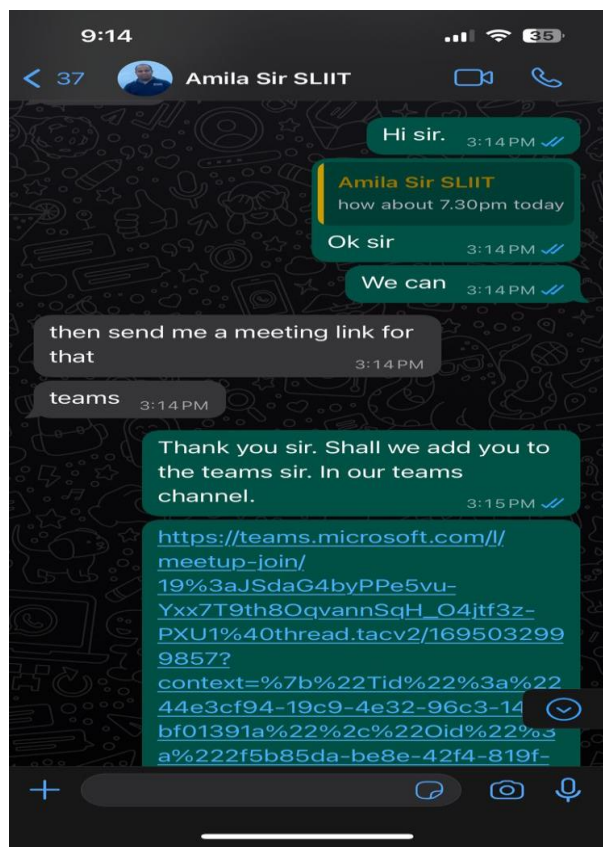
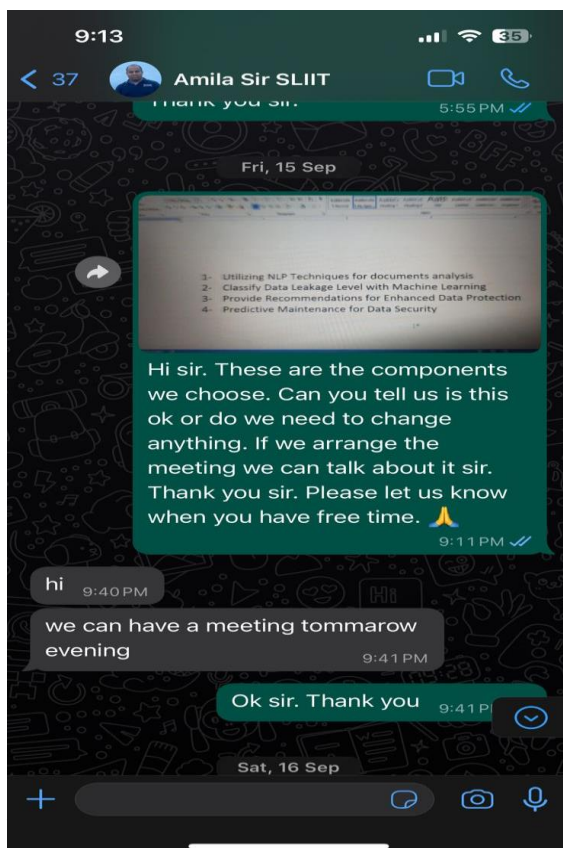
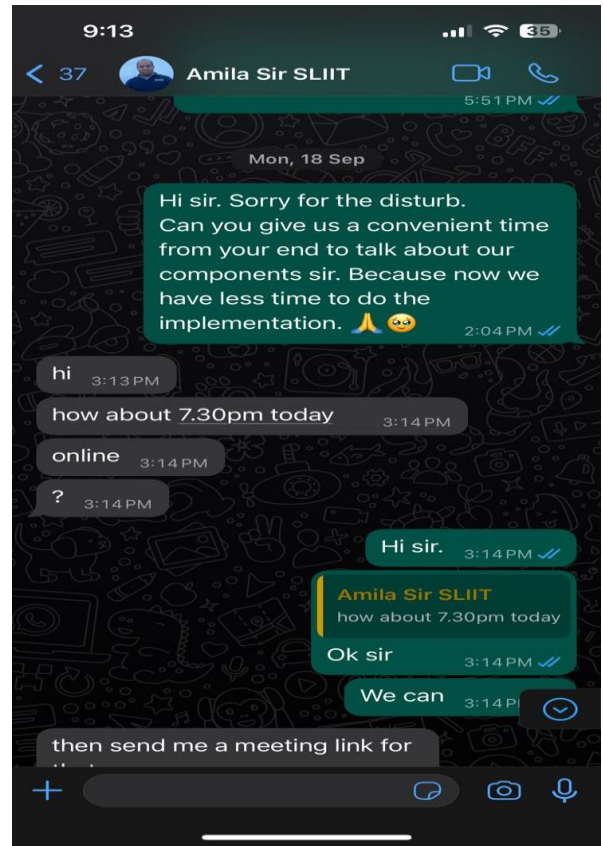
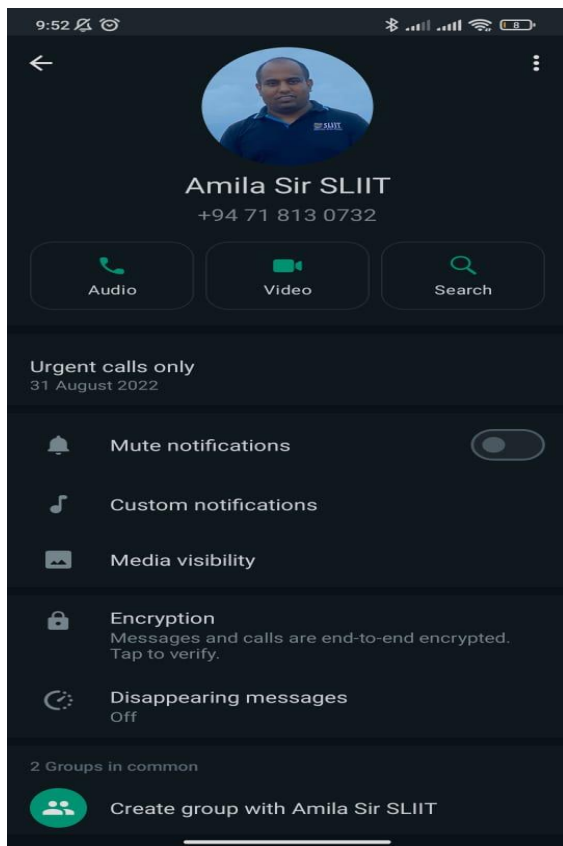
Pending Tasks



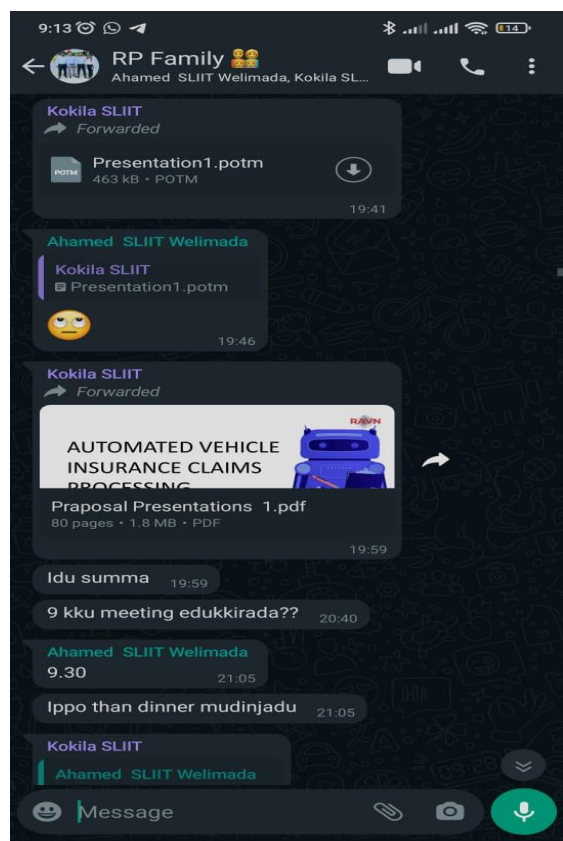
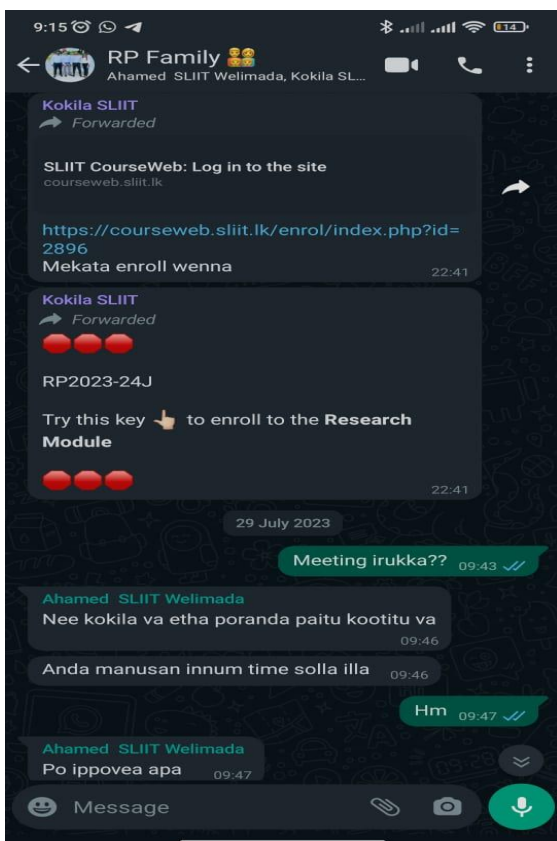
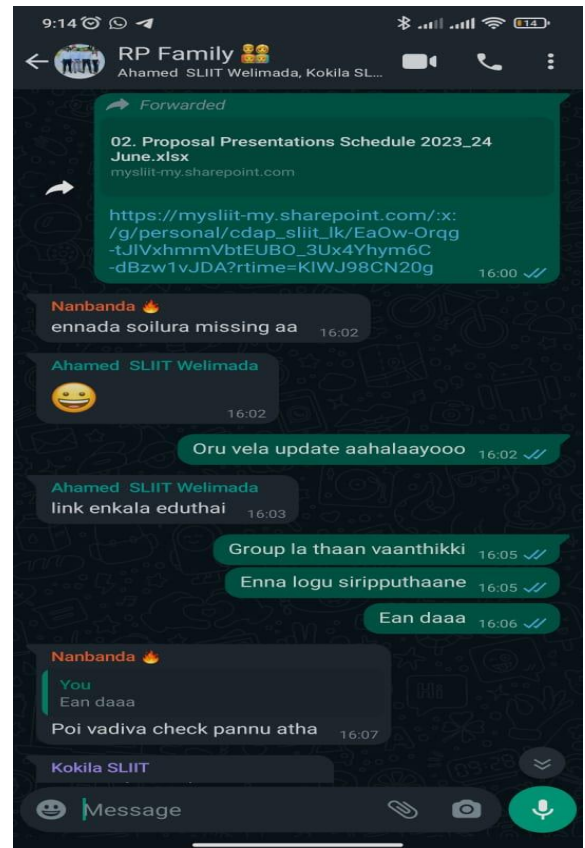
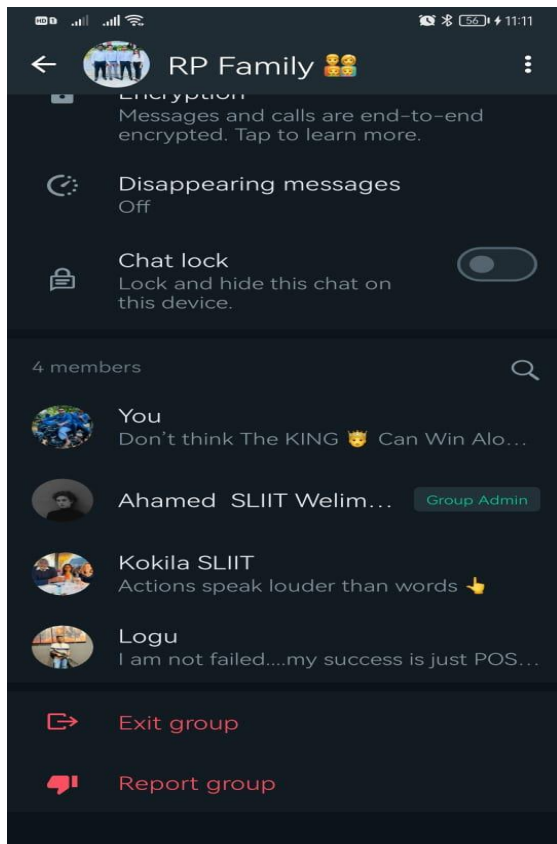
2.2 Team Planner Charts



3. WhatsApp chat with Supervisor



4. WhatsApp Call and Chat with Team



5. Email and planned Teams Events

The screenshot shows a Microsoft Teams meeting invitation titled "Final Project Discussion". It includes a "Follow up" button and a "Meeting Details" tab. The meeting is scheduled for Thursday, 21/09/2023 at 21:00 - 23:00. The organizer is "TMP-2023-24-082_A COMPREHENSIVE APP". The invitation is sent on Thursday, 21/09/2023 at 20:39. The meeting details include a warning: "[EXTERNAL EMAIL] This email has been received from an external source – please review before actioning, clicking on links, or opening attachments." The meeting is scheduled for 9 pm. The meeting is titled "Microsoft Teams meeting". The list of attendees includes: Keshani S.K. it20299002 (Required), Ahamed R.R. it20650902 (Required), Fayas A.C.M. it20637828 (Required), and Logu J.J. it20638818 (Required).

Fig: Planned MS Teams Meeting

The screenshot shows an email communication from Keshani S.K. it20299002 <it20299002@my.sliit.lk> to Amila Nurwan. The email is dated Tuesday, 08/10/2023 at 22:13. The email includes a warning: "[EXTERNAL EMAIL] This email has been received from an external source – please review before actioning, clicking on links, or opening attachments." The email content includes a greeting "Dear Sir," and a message: "I hope this message finds you well. I wanted to update you on our progress regarding the research project. We have initiated the implementation of the following four components: 01. Abnormal Login Analysis for Email-Based DLP Systems, 02. Natural Language Processing for Phishing Email Detection, 03. Utilizing NLP techniques for Content Analysis, 04. Classify Data Leakage Level with Machine Learning. I've attached a detailed document outlining our approach, methodology, and progress on each of these components for your review. If you have any concerns or feedback regarding these components or if you believe there are additional aspects we should consider, please do not hesitate to share your insights. Your guidance is invaluable to us, and we aim to ensure the system we develop is both comprehensive and effective."

Fig: Email Communication with Supervisor

PP1 Discussion with Supervisor

Follow up

▼

🕒

This event occurred 1 month ago (Thu 02/11/2023 20:00 - 22:00)

📍

Microsoft Teams Meeting;
Teams meeting

👤

Keshani S.K it20299002 <it20299002@my.sliit.lk> on behalf of TMP-2023-24-082_Unified DLP Solutions fo

Accepted 1, Didn't respond 4

Messages

Meeting Details

🕒

Keshani S.K it20299002 <it20299002@my.sliit.lk> on behalf of

TMP-2023-24-082_Unified DLP Solutions for Email System <RP_Family@sliit.lk> updated the meeting time

Thu 02/11/2023 20:00 - 22:00 Thu 02/11/2023 19:00 - 21:00

T

Keshani S.K it20299002 <it20299002@my.sliit.lk> on behalf of TMP-2023-24-082_Ur

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⋮

To: Keshani S.K it20299002; Ahamed R.R. it20650902; Logu J.J. it20638818; Amila Nuwan; +2 others

Thu 02/11/2023 17:50

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

Please join all at 8pm today to discuss the PP1.

Thank you..

Fig: PP1 Discussion Meeting with Supervisor

Research Project - Update the Power point Slides

Follow up

▼

🕒

This event occurred 1 month ago (Wed 04/10/2023 19:00 - 20:00)

📍

Microsoft Teams Meeting;
teams meeting

👤

TMP-2023-24-082_A COMPREHENSIVE APP

Keshani S.K it20299002 <it20299002@my.sliit.lk> on behalf of STRENGTHENING CYBERSECURITY <RP_Fan

Didn't respond 4

Messages

Meeting Details

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

Please join at 7 pm.

Thank you..

Organiser

T

TMP-2023-24-082_A COMPRE...

Sent on Wednesday, 04/10/2023 at 18:52

Keshani S.K it20299002

Required

Fayaz A.C.M. it2063/828

Required

Ahamed R.R. it20650902

Required

Logu J.J. it20638818

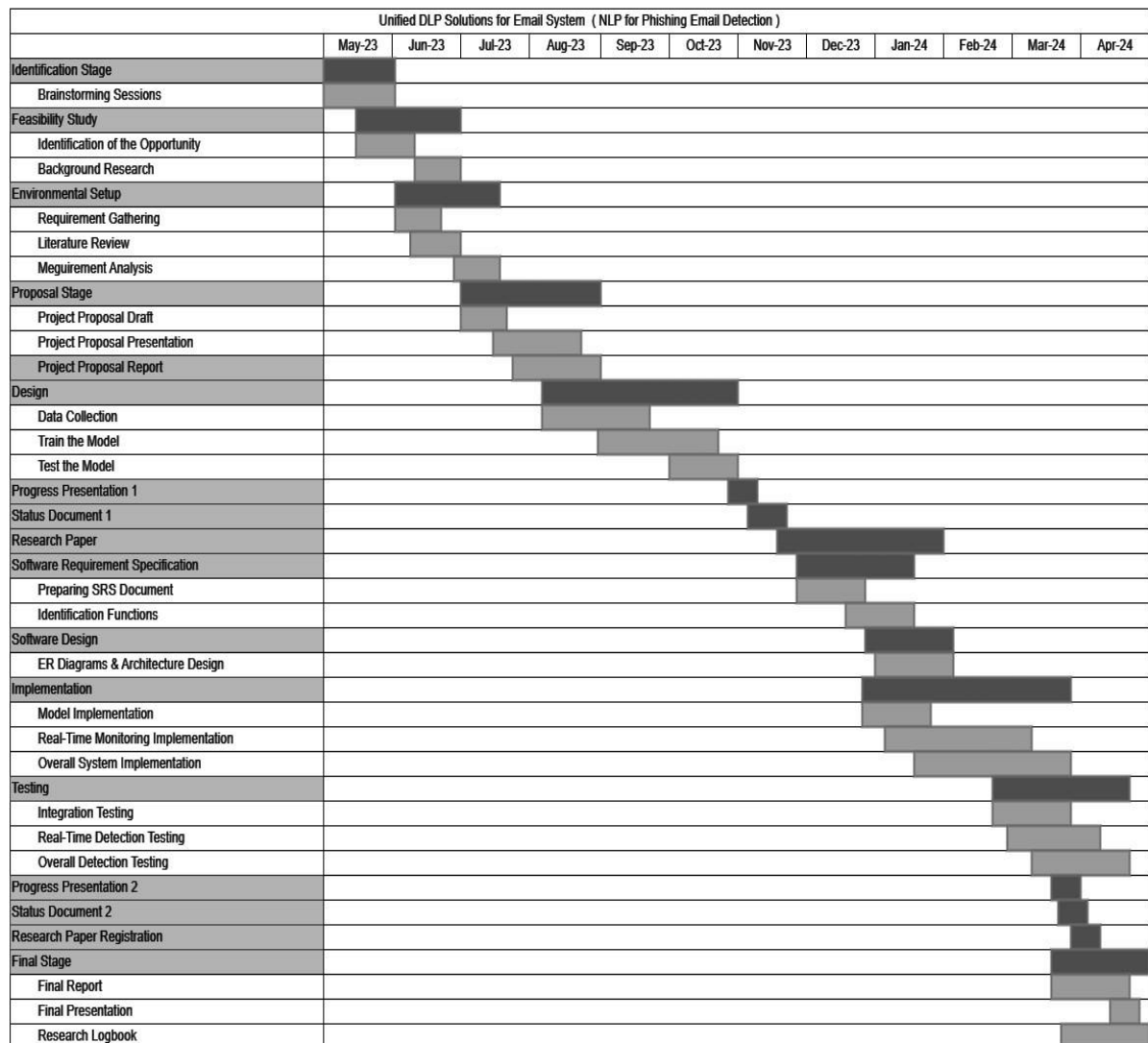
Required

Microsoft Teams meeting

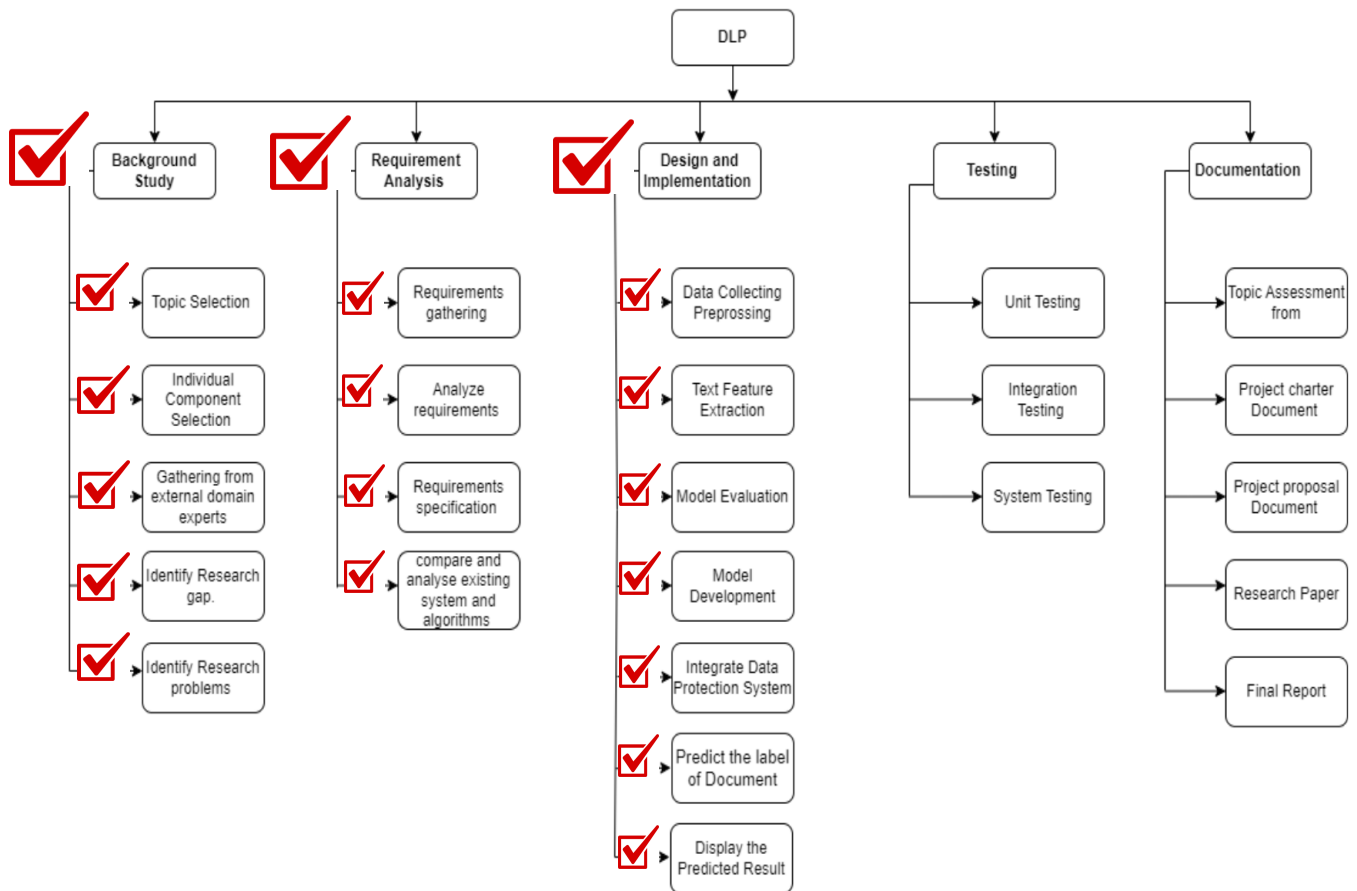
Fig: PP1 Slides Updating Meeting with Team Members

11 | Page

6. Gantt Chart



7. Work Breakdown Structure (WBS)



- Completed

8. Gitlab Commits

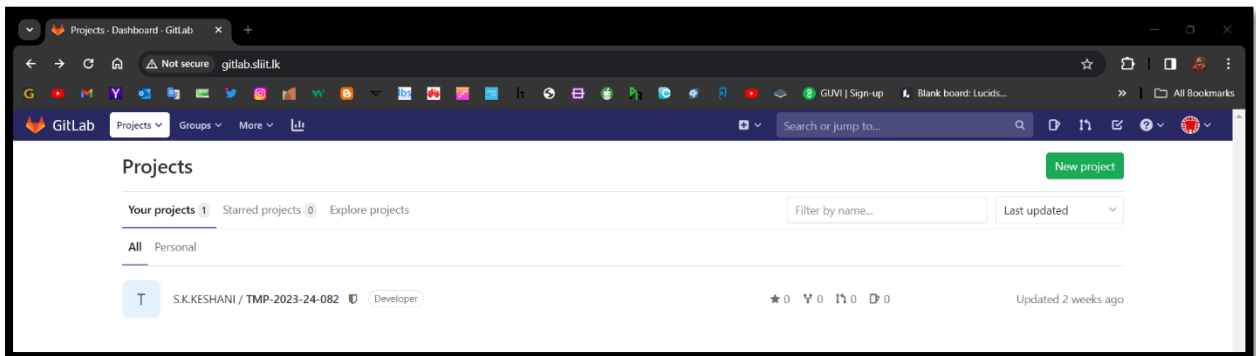


Fig: Project

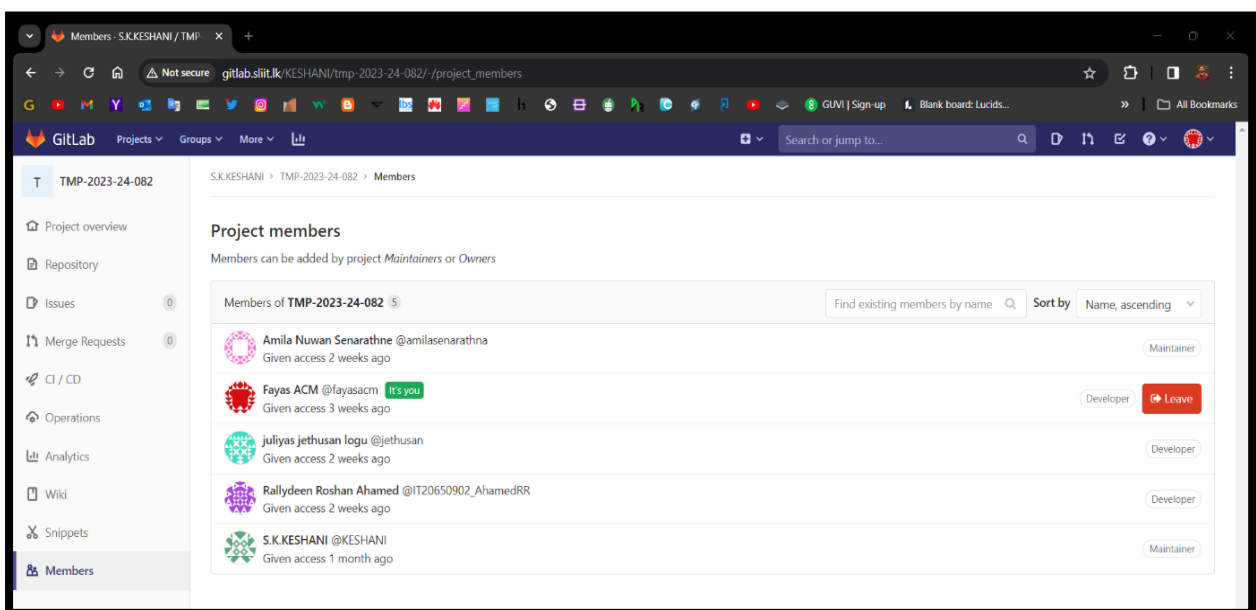


Fig: Team Members and Supervisor

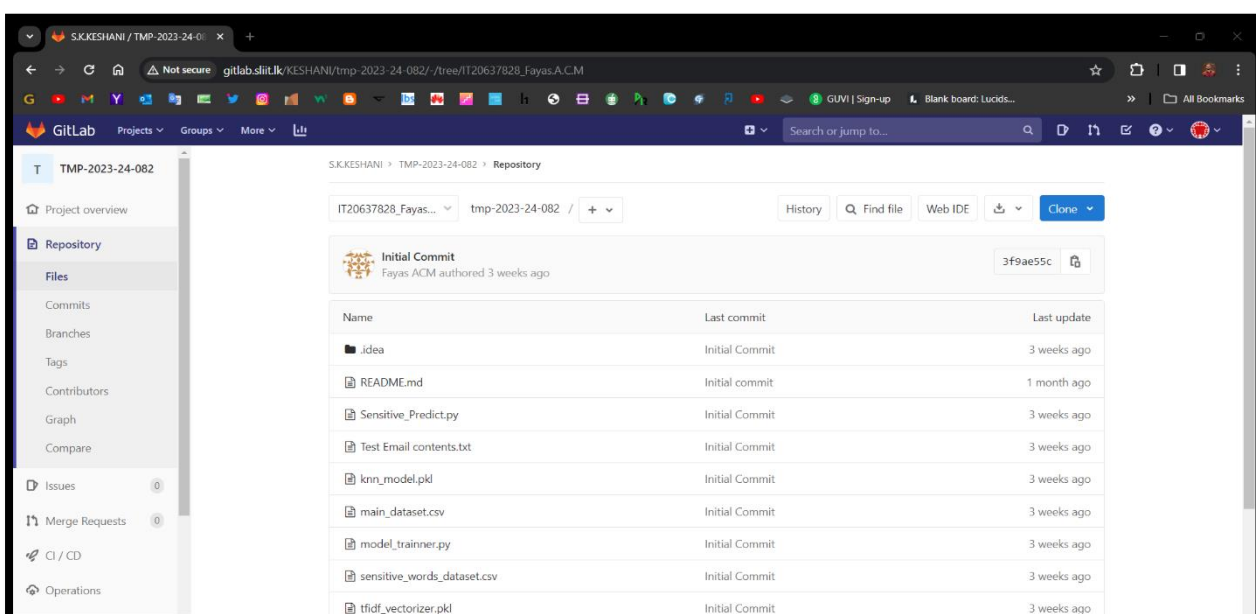


Fig: Code Repository



README.md 1.09 KB



Edit

Web IDE

Replace

Delete



TMP-2023-24-082

Main Research Topic : Unified DLP Solution for Email System

Sub Reserch Component : Utilizing NLP Techniques for Content Analysis in Email Systems

Induction and Background :-

1. Analysis and Identifying sensitive information in Email contents.
2. Importance of Protecting Data from Unauthorized Access.
3. NLP techniques offer a powerful way to extract sensitive information from Email contents.

Research Problem :-

1. Difficulty in identifying sensitive information from the Email contents.
2. Improved accuracy and efficiency in sensitive information analysis.
3. Provide an awareness message or alert to admin notifying them about sensitive information.

Main Objective - To develop an intelligent system that raises user awareness about sensitive information in Email contents and alerts them appropriately.

Sub-Objectives :-

1. Implementing Natural Language Processing (NLP) techniques to analyze documents.
2. Ensuring the system's accuracy in identifying and flagging sensitive information.
3. Providing user-friendly interfaces for efficient interaction and understanding of alerts.

Fig: ReadMe File