

BLOCKCHAIN BASED CRIMINAL INFORMATION MANAGEMENT SYSTEM IN SRI LANKA

Project Id: 23 -270

Status Document – II

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September 2023

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1. Microsoft Teams Details

1.1. Team Members




Final year Research project 2023

Final year Research project 2023




[Members](#) [Pending Requests](#) [Channels](#) [Settings](#) [Analytics](#) [Apps](#) [Tags](#)

[Add member](#)


▼ **Owners (1)**

Name	Title	Location	Tags	Role
 Brahanawawardhan B....				Owner ▼

▼ **Members and guests (3)**

Name	Title	Location	Tags	Role
 Wijayarathne S. N it2...				Member ▼ ✕
 Thushitharan .M it199...				Member ▼ ✕
 Ahmed M.N.H it2015...				Member ▼ ✕

1.2. Meeting with Supervisor






































Proposal Presentation Discussion

[Chat](#) [Files](#) [Details](#) [Scheduling Assistant](#) [Attendance](#) [Meeting Whiteboard](#) [+2](#)

[Join](#) [Close](#)

[Cancel meeting](#) [Copy link](#) [Show as: Busy](#) [Category: None](#) [Time zone: \(UTC+05:30\) Sri Jayawardenepura](#)

Tuesday, March 28, 2023 2:30 PM - 3:30 PM [Show meeting info](#)

B *I* U ~~S~~   Paragraph                                 

Microsoft Teams meeting


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


Meeting ID: 438 217 564 636


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


[Learn More](#) | [Meeting options](#)


Tracking


 Brahanawawardhan B. it20150952
Organizer

 Dinithi Pandithage
Accepted

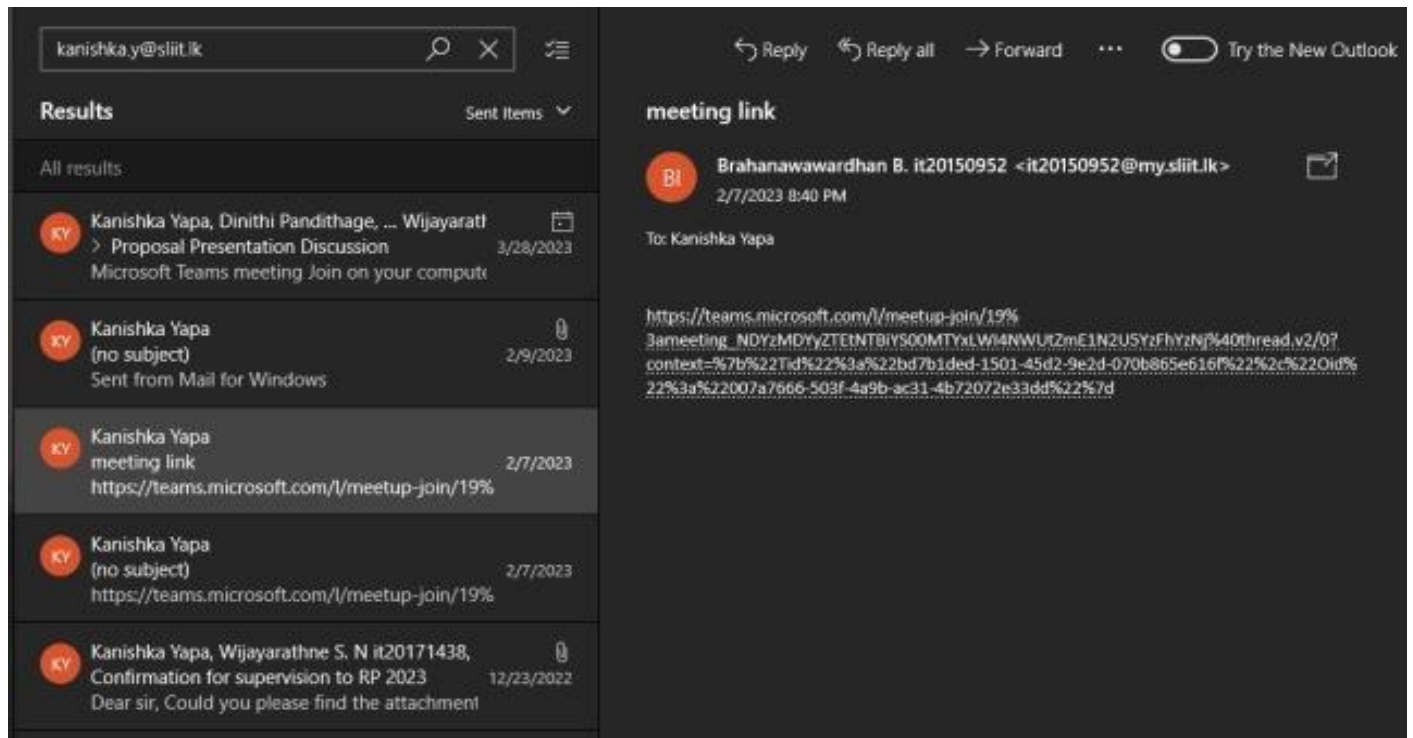
 Kanishka Yapa
Unknown

 Wijayarathne S. N it20171438
Unknown

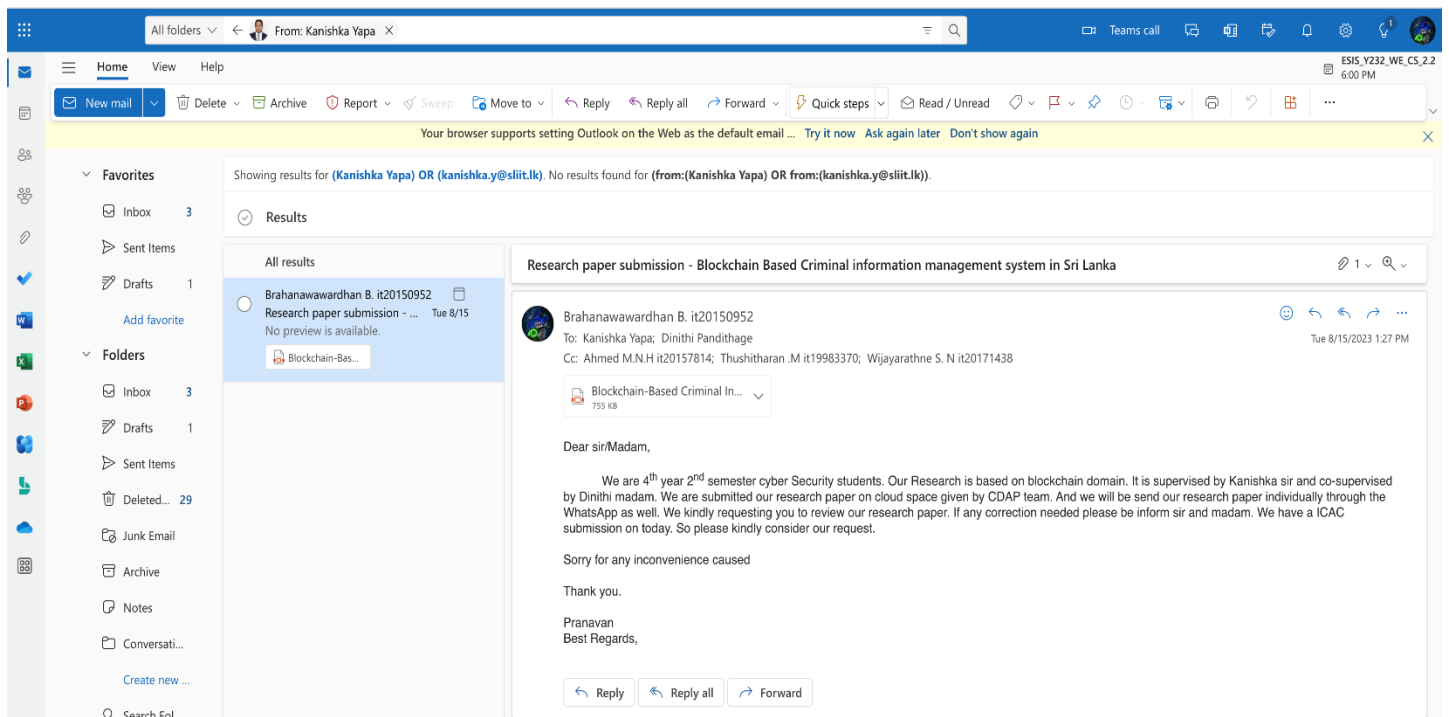
 Ahmed M.N.H it20157814
Unknown

 Thushitharan .M it19983370
Unknown

1.3. Invite Supervisor to the Meeting- Outlook Mail



1.4. Recent communication with Supervisor and Co-supervisor (Outlook mail)



2. Teams Calls with Research Team (Weekly Meeting)

The screenshot shows a Microsoft Teams chat window. At the top, there's a navigation bar with tabs for 'General', 'Posts', 'Files', and 'TMP-23-270'. A 'Meet' button is visible in the top right. The chat history shows a message from 'Wijayarathne S. N it20171438' dated '5/3, 9:31 PM' saying 'Hi Guys,'. Below this is a blue announcement banner for 'Weekly Research SyncUP' which states 'Occurs every Wednesday @9:00 PM until 12/13/2023'. Under the banner, there's a section titled 'Collapse all' containing a list of 18 meeting entries, each with a camera icon and a duration (e.g., 'Meeting ended: 1h 10m 2s'). To the right of this list is a vertical column of 18 circular profile pictures of participants, each labeled with initials (e.g., 'AI', 'UU').

General Posts Files TMP-23-270 +

Meet

Today

Wijayarathne S. N it20171438 5/3, 9:31 PM
Hi Guys,

Let's keep this as a Weekly SyncUP for the Research Proposal.
To discuss about the bottlenecks, challenges and implementations.

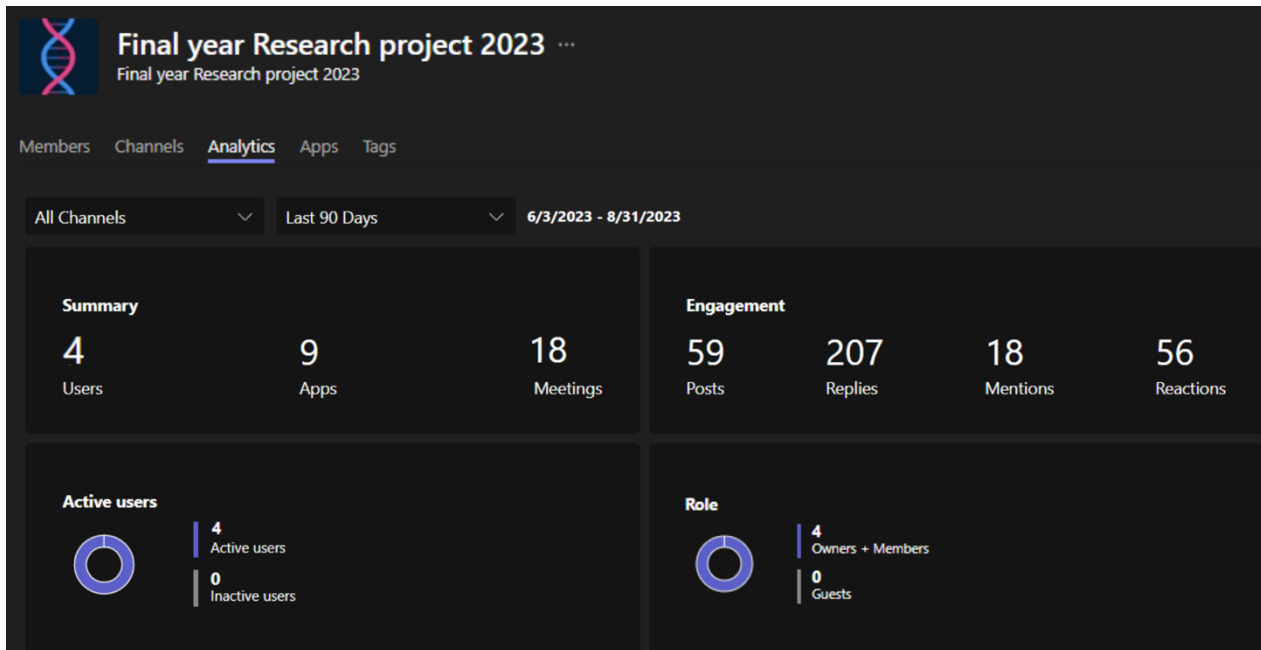
Weekly Research SyncUP
Occurs every Wednesday @9:00 PM until 12/13/2023

▼ Collapse all

- Meeting ended: 1h 10m 2s
- Meeting ended: 34m 55s
- Meeting ended: 1h 46s
- Meeting ended: 1h 31s
- Meeting ended: 29m 52s
- Meeting ended: 55m 27s
- Meeting ended: 17m 43s
- Meeting ended: 1h 5m 17s
- Meeting ended: 43m 12s
- Meeting ended: 56m 9s
- Meeting ended: 1h 12m 14s
- Meeting ended: 41m 29s
- Meeting ended: 11m 17s
- Meeting ended: 1h 30m 24s
- Meeting ended: 1h 15m 42s
- Meeting ended: 58m 38s
- Meeting ended: 1h 37m 19s

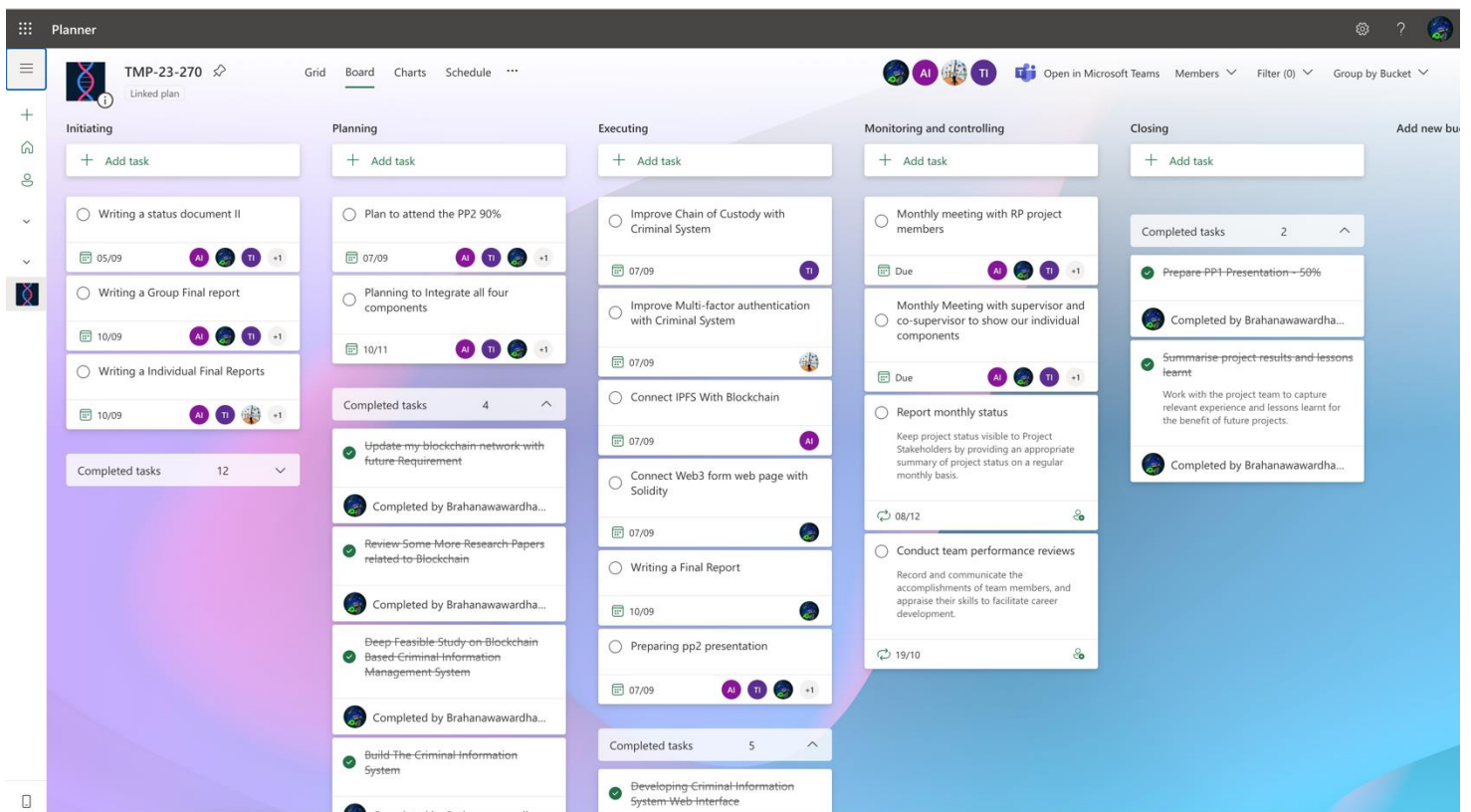
AI UU AI UU AI UU AI UU AI UU AI UU AI UU AI UU AI UU AI UU AI UU AI UU

3. Microsoft team analytics



MS Teams Planner

3.1. Planner Board Group Tasks



3.2. Individual Tasks

The screenshot displays the Planner application interface for a project named "TMP-23-270". The interface is organized into five columns representing different project phases: Initiating, Planning, Executing, Monitoring and controlling, and Closing. Each column contains a list of tasks, some of which are completed and marked with a green checkmark. The tasks are assigned to team members, indicated by circular icons with initials (AI, TI, etc.).

- Initiating:** Tasks include "Writing a status document II" (due 05/09), "Writing a Group Final report" (due 10/09), and "Writing a Individual Final Reports" (due 10/09). 12 completed tasks are shown.
- Planning:** Tasks include "Plan to attend the PP2 90%", "Planning to integrate all four components" (due 10/11), and "Update my-blockchain-network-with future Requirement". 4 completed tasks are shown.
- Executing:** Tasks include "Improve Chain of Custody with Criminal System", "Improve Multi-factor authentication with Criminal System", "Connect IPFS With Blockchain", "Connect Web3 form web page with Solidity", "Writing a Final Report", and "Preparing pp2 presentation". 5 completed tasks are shown.
- Monitoring and controlling:** Tasks include "Monthly meeting with RP project members", "Monthly Meeting with supervisor and co-supervisor to show our individual components", "Report monthly status", and "Conduct team performance reviews".
- Closing:** Tasks include "Prepare PPI Presentation - 50%", "Summarise project results and lessons learnt", and "Work with the project team to capture relevant experience and lessons learnt for the benefit of future projects". 2 completed tasks are shown.

4. Completed Tasks

Group Tasks

The screenshot displays the Planner application interface for a project named "TMP-23-270", specifically focusing on completed tasks. The interface is organized into five columns representing different project phases: Initiating, Planning, Executing, Monitoring and controlling, and Closing. Each column contains a list of completed tasks, marked with a green checkmark and assigned team members.

- Initiating:** Completed tasks include "Submit Research Paper on ICAC", "Written Research paper-Draft", "Literature Review - Research Papers", "Understand the Current system in Sri Lanka", "Information Gathered related to Criminal System in Sri Lanka", and "Connect with Supervisor and Got some ideas".
- Planning:** Completed tasks include "Update my-blockchain-network-with future Requirement", "Review Some More Research Papers related to Blockchain", "Deep Feasible Study on-Blockchain Based-Criminal-Information Management-System", and "Build-The-Criminal-Information System".
- Executing:** Completed tasks include "Developing-Criminal-Information System-Web-Interface", "Develop the Web3-Development-for Criminal-Information-Management System", "UnderStand-Functional-and Nonfunctional-Requirement", "Developing the Smart-Contract-using Solidity", and "Setup the Ethereum-Blockchain Network".
- Monitoring and controlling:** Completed tasks include "Monthly meeting with RP project members", "Monthly Meeting with supervisor and co-supervisor to show our individual components", "Report monthly status", and "Conduct team performance reviews".
- Closing:** Completed tasks include "Prepare PPI Presentation - 50%", "Summarise project results and lessons learnt", and "Work with the project team to capture relevant experience and lessons learnt for the benefit of future projects".

Individual Tasks

The screenshot shows a 'Planner' application interface. At the top, there's a header with 'Planner' and navigation icons. Below the header, a sidebar on the left contains a list of tasks. The main area is a Kanban board with five columns: 'Initiating', 'Planning', 'Executing', 'Monitoring and controlling', and 'Closing'. Each column has a list of tasks. Many tasks are marked as 'Completed' with a green checkmark. The 'Completed Tasks' section at the top right shows a list of completed tasks. The 'Initiating' column has tasks like 'Submit Research Paper on ICAC' and 'Written Research paper Draft'. The 'Planning' column has tasks like 'Update my blockchain network with future Requirement' and 'Review Some More Research Papers related to Blockchain'. The 'Executing' column has tasks like 'Developing Criminal Information System-Web Interface' and 'Develop the Web3-Development for Criminal Information-Management System'. The 'Monitoring and controlling' column has tasks like 'Monthly meeting with RP project members' and 'Report monthly status'. The 'Closing' column has tasks like 'Prepare PP1 Presentation -50%' and 'Summarise project results and lessons learnt'.

4.1. Pending Tasks (Trello)

Group Tasks

The screenshot shows a Trello workspace titled 'RP - Research Team Group Tasks'. The workspace has four boards: 'PP2 Presentation Viva', 'Testing', 'Implementation', and 'Monitoring and Controlling'. Each board has a list of tasks. The 'PP2 Presentation Viva' board has tasks like 'PP2' and 'Final Presentation'. The 'Testing' board has tasks like 'Smart Contract uses solidity language to integrate with web3 Criminal System' and 'Multi-factor Authentication for Criminal system'. The 'Implementation' board has tasks like 'Implemented Multi-factor authentication for Criminal system' and 'Implemented a Smart contract between the criminal Record system and the Ganache Blockchain Decentralized system'. The 'Monitoring and Controlling' board has tasks like 'Monthly Meetings with Supervisor and co-supervisor' and 'Weekly meetings with RP Project group memebers'. The left sidebar shows the workspace settings and a list of boards.

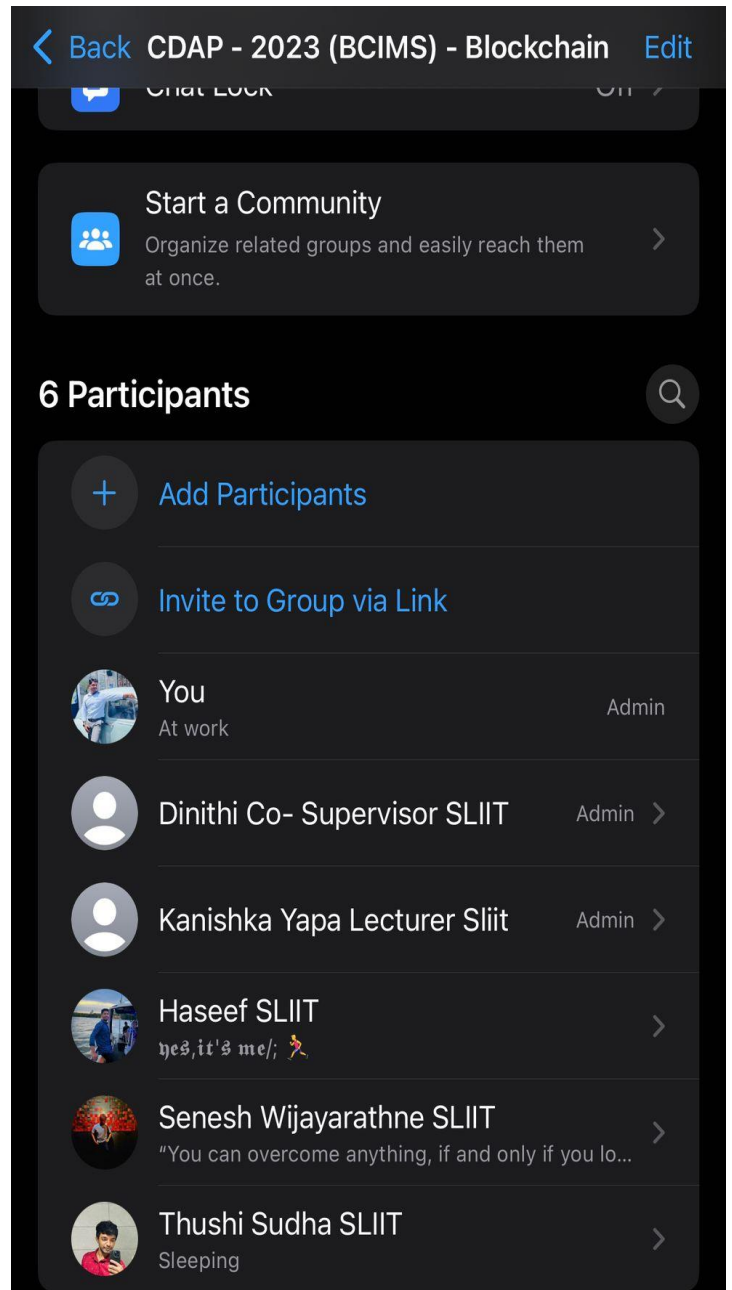
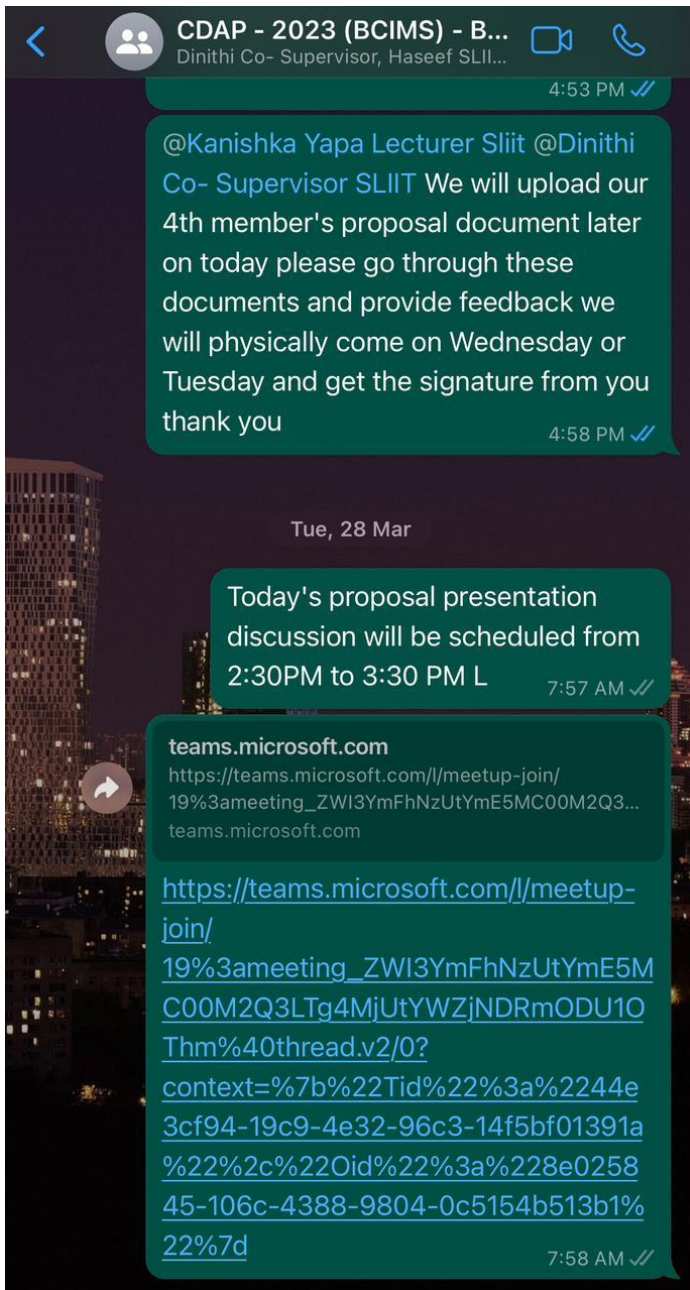
4.2. Individual Tasks Planning

The screenshot displays a Trello workspace interface for 'Trello Workspace Free'. The top navigation bar includes 'Workspaces', 'Recent', 'Starred', 'Templates', and a 'Create' button. A search bar and user avatars are on the right. The left sidebar shows navigation options: 'Boards', 'Members', 'Workspace settings', 'Workspace views' (with 'Table', 'Calendar', and 'Your boards' sub-options), and 'Show more'. The main area shows a board titled '23-270' with a 'Board' dropdown. The board is organized into five lanes, each representing a team member's tasks:

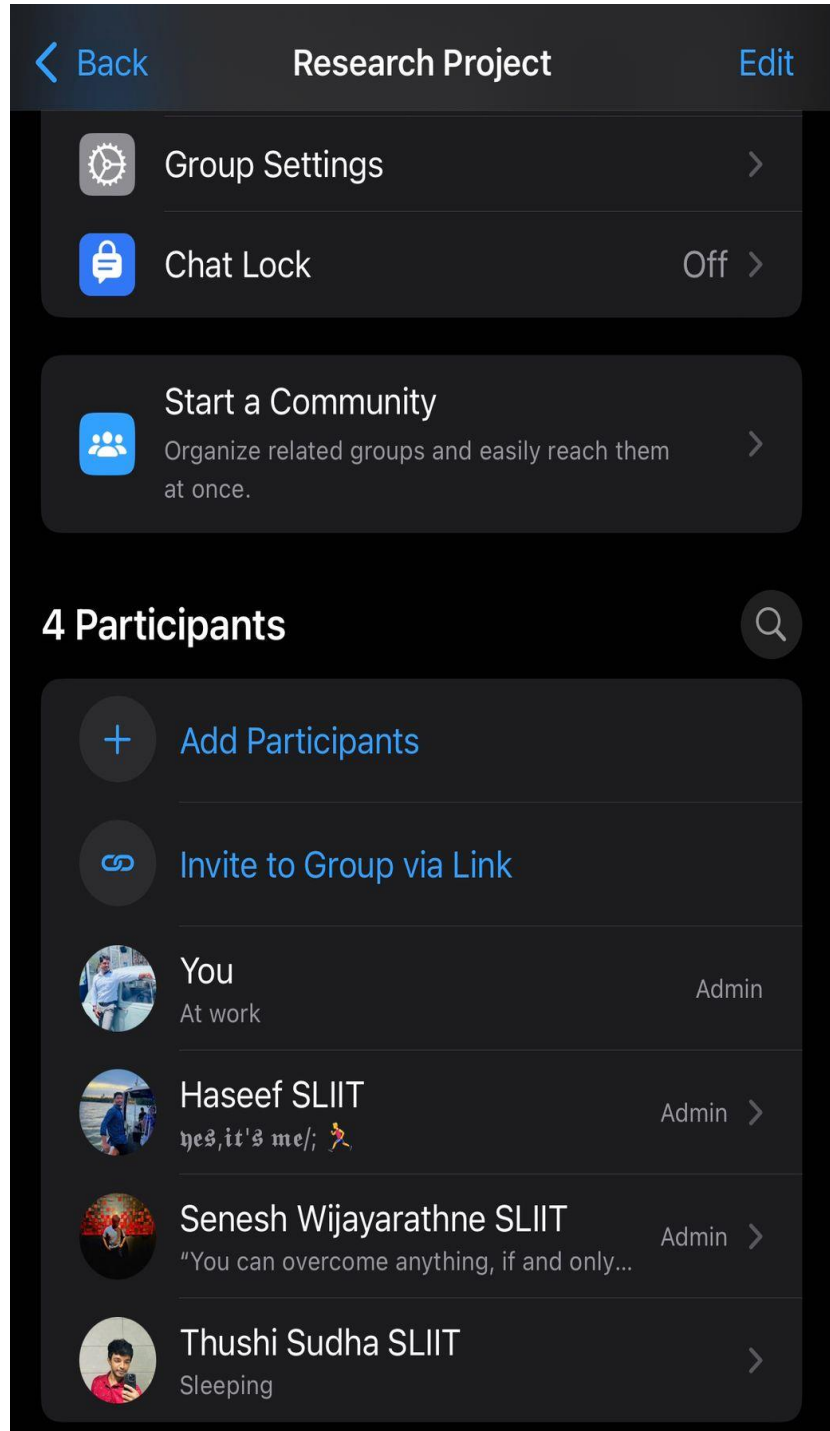
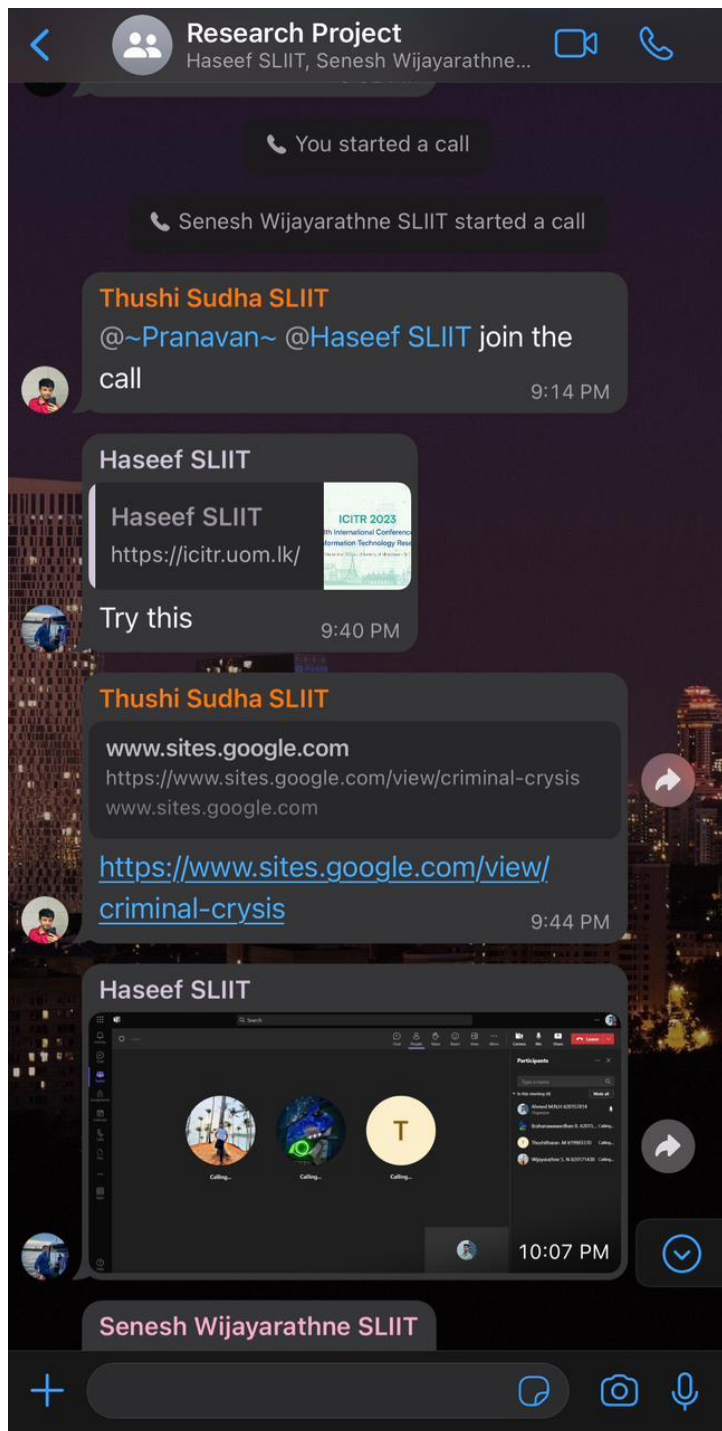
- Individual Tasks - Planning**:
 - Testing Smart contracts with the Integrated final System
 - Develop Banners for Criminal System
 - develop Project Web Site and Upload the Documents
 - Create a logbook for the project
 - + Add a card
- Wijayarathne S. N it20171438**:
 - Testing Multi-factor authentication with the Final Integrated system.
 - create a logbook for the project
 - preparing for the Final Presentation
 - + Add a card
- Brahanawardhan B. it20150952**:
 - Testing Smart contracts with the Integrate final system
 - Write an Individual Final report
 - Create a logbook for the project
 - + Add a card
- Thushitharan .M it19983370**:
 - Testing Chain of custody process and verify the logs with the integrated system
 - Write a Individual final report
 - Create a logbook for the project
 - + Add a card
- Ahmed M.N.H it20157814**:
 - Testing IPFS with the final integrate system and the blockchain network
 - Create an individual report for the project
 - Create a logbook for the project
 - + Add a card

A '+ Add another member' button is visible on the right side of the board.

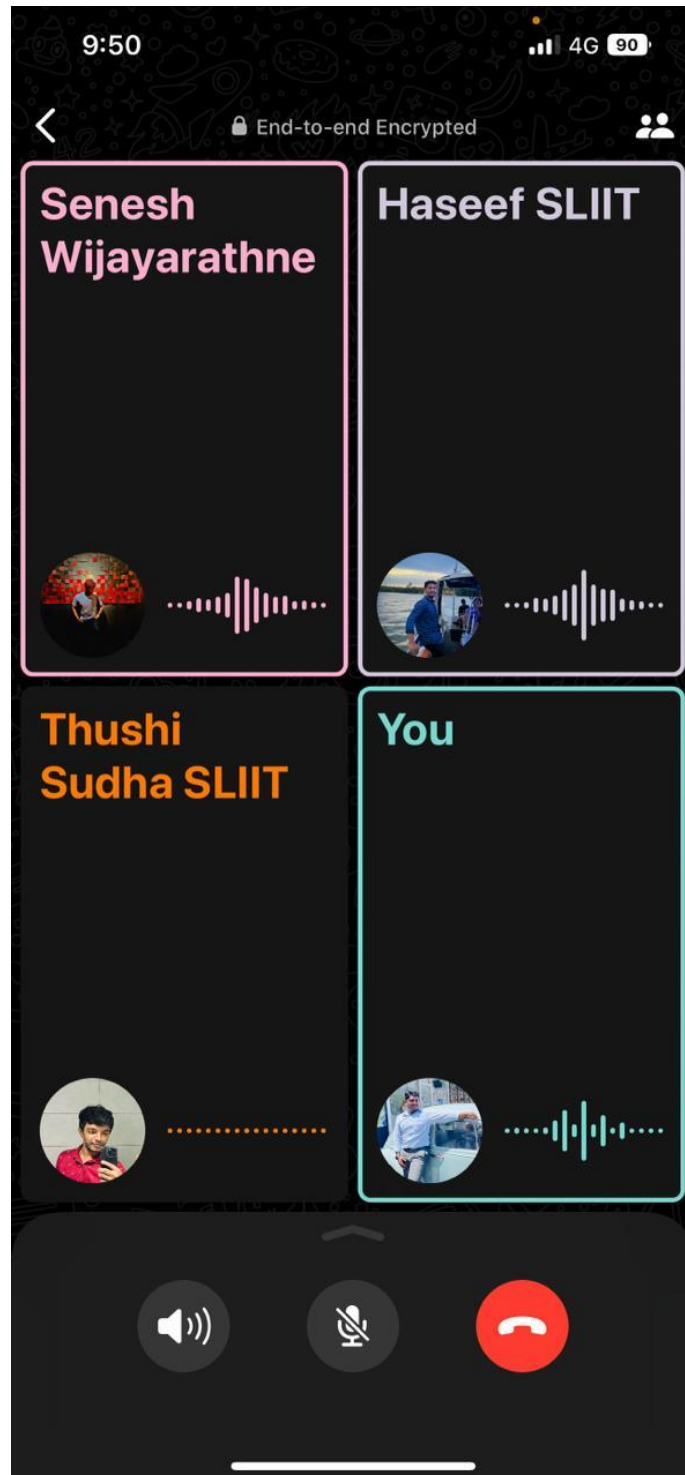
5. WhatsApp Group with Supervisor and Co-Supervisor



5.1. WhatsApp Group with Group Member



- 5.2. Recent Meeting with team members WhatsApp group call discussing about PP2 Update



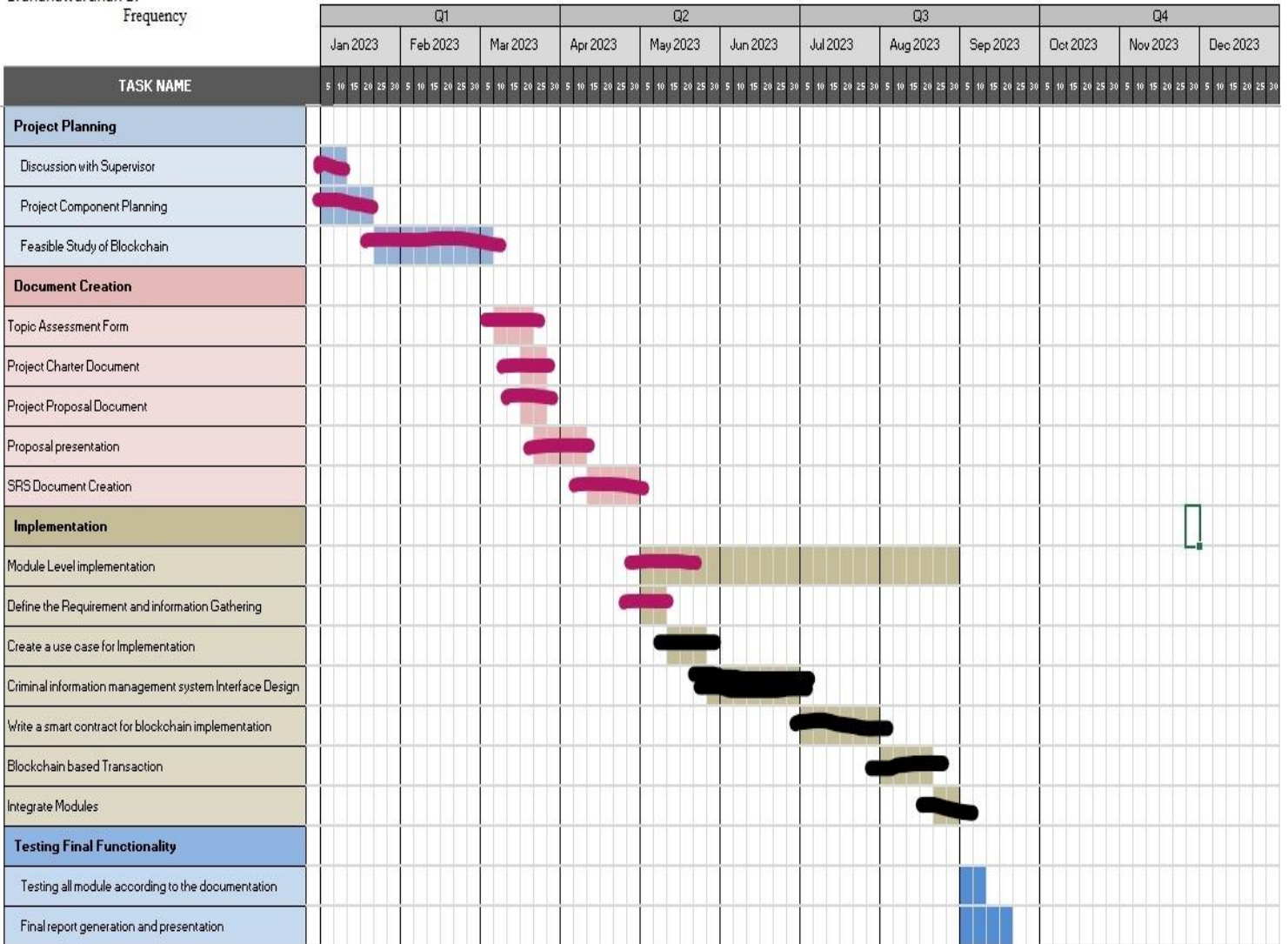
6. Gantt Chart

Research Project - Timeline

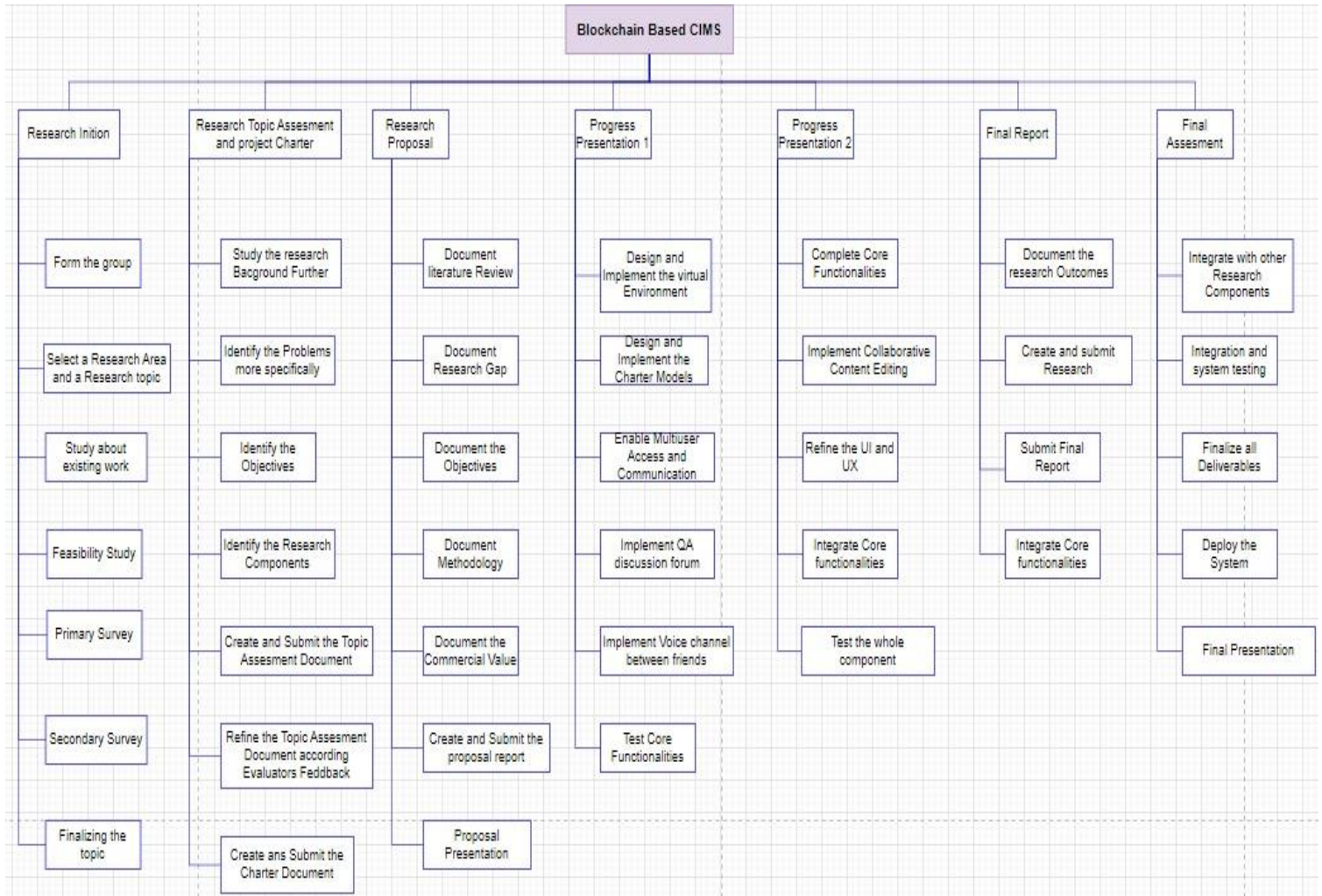
Sri Lanka Institute of Information Technology (SLIIT)

Brahanawardhan B.

Frequency

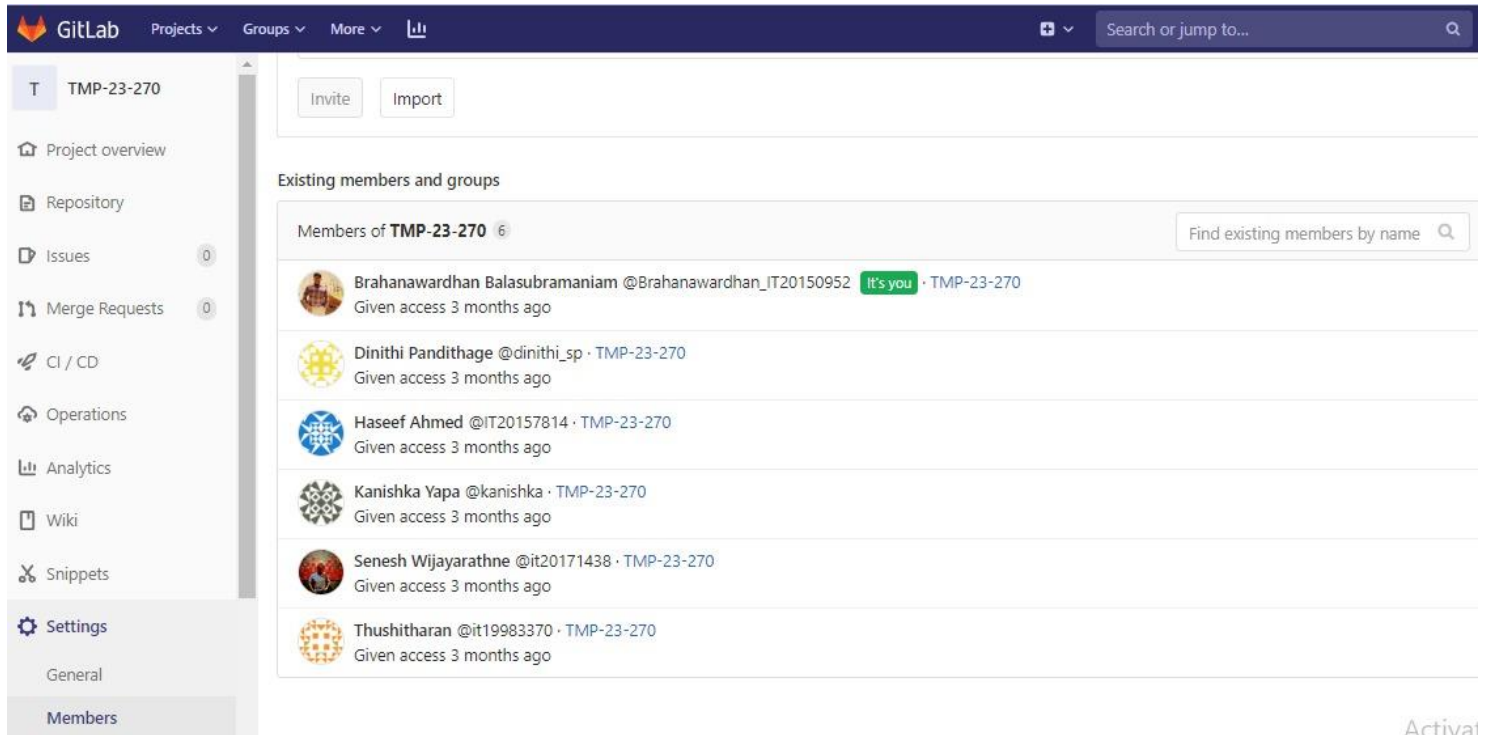


7. Work breakdown structure



8. GitLab

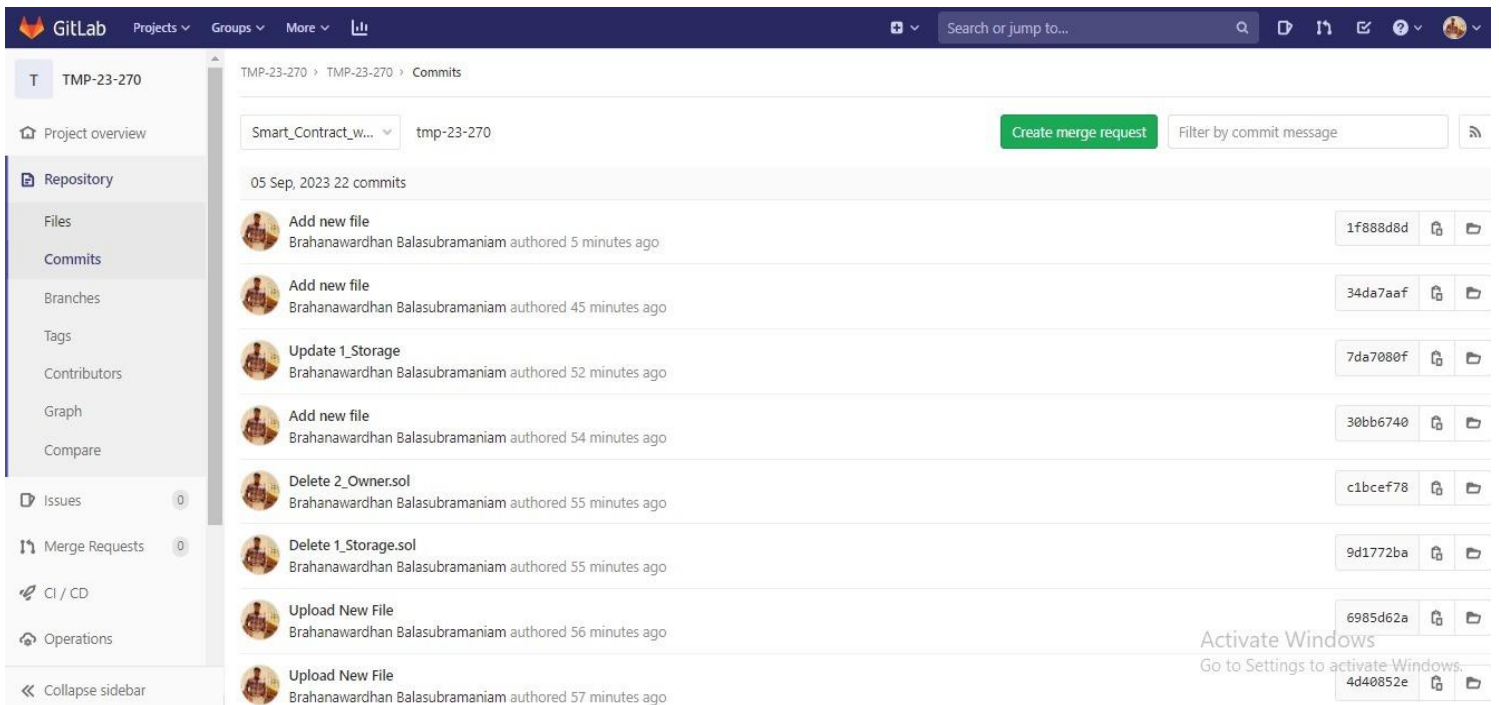
8.1. Group Members in GitLab



The screenshot shows the GitLab interface for the group **TMP-23-270**. The left sidebar contains navigation links: Project overview, Repository, Issues (0), Merge Requests (0), CI / CD, Operations, Analytics, Wiki, Snippets, Settings (General, Members), and Members (selected). The main content area has an 'Existing members and groups' section with a search bar 'Find existing members by name'. Below this, a list of members is shown, each with a profile picture, name, email, and access date. The members are: Brahanawardhan Balasubramaniam (@Brahanawardhan_IT20150952, 'It's you'), Dinithi Pandithage (@dinithi_sp), Haseef Ahmed (@IT20157814), Kanishka Yapa (@kanishka), Senesh Wijayarathne (@it20171438), and Thushitharan (@it19983370). All members were given access 3 months ago. At the bottom right, there is a partially visible 'Activated' button.

Member	Email	Access Date
Brahanawardhan Balasubramaniam	@Brahanawardhan_IT20150952	Given access 3 months ago
Dinithi Pandithage	@dinithi_sp	Given access 3 months ago
Haseef Ahmed	@IT20157814	Given access 3 months ago
Kanishka Yapa	@kanishka	Given access 3 months ago
Senesh Wijayarathne	@it20171438	Given access 3 months ago
Thushitharan	@it19983370	Given access 3 months ago

8.2. GitLab Commits



The screenshot shows the GitLab interface for the repository **tmp-23-270**. The left sidebar contains navigation links: Project overview, Repository (Files, Commits, Branches, Tags, Contributors, Graph, Compare), Issues (0), Merge Requests (0), CI / CD, Operations, and Collapse sidebar. The main content area shows the commit history for the **Smart_Contract_w...** branch. It lists 22 commits from 05 Sep, 2023. The commits are: Add new file (1f888d8d), Add new file (34da7aaf), Update 1_Storage (7da7080f), Add new file (30bb6740), Delete 2_Owner.sol (c1bcef78), Delete 1_Storage.sol (9d1772ba), Upload New File (6985d62a), and Upload New File (4d40852e). Each commit is authored by Brahanawardhan Balasubramaniam and includes a commit hash, a link to the commit, and a link to the file. At the bottom right, there is a partially visible 'Activated' button.

Commit	Author	Access Date
Add new file	Brahanawardhan Balasubramaniam	authored 5 minutes ago
Add new file	Brahanawardhan Balasubramaniam	authored 45 minutes ago
Update 1_Storage	Brahanawardhan Balasubramaniam	authored 52 minutes ago
Add new file	Brahanawardhan Balasubramaniam	authored 54 minutes ago
Delete 2_Owner.sol	Brahanawardhan Balasubramaniam	authored 55 minutes ago
Delete 1_Storage.sol	Brahanawardhan Balasubramaniam	authored 55 minutes ago
Upload New File	Brahanawardhan Balasubramaniam	authored 56 minutes ago
Upload New File	Brahanawardhan Balasubramaniam	authored 57 minutes ago

GitLab

Projects

Groups

More

T

TMP-23-270

Project overview

Repository

Files

Commits

Branches

Tags

Contributors

Graph

Compare

Issues0

Merge Requests0

CI / CD

Operations

Collapse sidebar

Search or jump to...

Brahanawardhan Balasubramaniam

authored 1 hour ago

Delete CriminalInformation.json

Brahanawardhan Balasubramaniam authored 1 hour ago

Upload New File

Brahanawardhan Balasubramaniam authored 1 hour ago

Upload New File

Brahanawardhan Balasubramaniam authored 1 hour ago

Delete 1_Storage.sol

Brahanawardhan Balasubramaniam authored 1 hour ago

Upload New File

Brahanawardhan Balasubramaniam authored 1 hour ago

Upload New File

Brahanawardhan Balasubramaniam authored 1 hour ago

Upload New File

Brahanawardhan Balasubramaniam authored 1 hour ago

Upload New File

Brahanawardhan Balasubramaniam authored 1 hour ago

14 May, 2023 3 commits

Delete IE4062_-_Individual_Assignment_-_2023.pdf

Brahanawardhan Balasubramaniam authored 3 months ago

16964b3c

93ef0072

983e4243

d16a80e5

fd17dcf0

aef20664

fbf2af59

7f50ace9

Activate Windows

Go to Settings to activate Windows.

Projects Groups More

Search or jump to...

Brahanawardhan Balasubramaniam

@Brahanawardhan_IT20150952 · Member since May 09, 2023

Associate Information Security Engineer at CSE

Overview Activity Groups Contributed projects Personal projects Starred projects Snippets

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
M													
W													
F													

Issues, merge requests, pushes, and comments.

Activity [View all](#)

Brahanawardhan Balasubramaniam @Brahanawardhan_IT20150952 9 minutes ago

Pushed to branch Smart_Contract_with_Blockchain_IT20150952 at TMP-23-270 / TMP-23-270

Activate Windows

Go to Settings to activate Windows.

8.3. GitLab Project Overview

The screenshot displays the GitLab interface for a project named 'TMP-23-270'. The left sidebar contains navigation links for Project overview, Repository, Files, Commits, Branches, Tags, Contributors, Graph, Compare, Issues (0), Merge Requests (0), CI / CD, Operations, and a Collapse sidebar button. The main content area shows the repository's recent activity, including a push to 'Smart_Contract_with_Blockchain_IT20150952' 13 minutes ago. Below this, there's a section for 'Add new file' by Brahanawardhan Balasubramaniam, followed by a table listing repository files and their commit history.

Name	Last commit	Last update
Contracts	Add new file	13 minutes ago
.prettierrc.json	Upload New File	1 hour ago
README.md	Initial commit	3 months ago
README.txt	Upload New File	1 hour ago
criminal_information.sol	Upload New File	1 hour ago

Below the table, the 'README.md' file is highlighted. The bottom of the page shows the repository name 'TMP-23-270' and a Windows watermark: 'Activate Windows Go to Settings to activate Windows.'