

Sri Lanka Institute of Information Technology



“PM Pulse” – EXPLORING A FEASIBLE PLATFORM FOR PROJECT MANAGEMENT

R24-002

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Information System Engineering

Table of Contents

Table of Contents	i
Table of Figures	ii
Project Component and Current Status	1
Progress	1
Team Communication	4
Teams Channel.....	4
Teams Calls with the Research Team	5
Online Calls with Supervisors	7
Physical Meetings with Group Members.....	9
WhatsApp Group Creation	10
Project Timeline.....	12
Work Break-Down	13
Version Controlling.....	14
GitHub Commits	15
GitHub Graph of Commits	16
GitHub Contributors	17
Contribution Charts.....	18

Table of Figures

Figure 1 - Employee Creation	1
Figure 2 – View employee KPIs.....	2
Figure 3 - Add employee skills.	2
Figure 4 - Created user.	3
Figure 5 - Teams Channel Creation.....	4
Figure 6 - Overview of Team Calls and Communication.....	5
Figure 7 - Team Member Teams Calls (Example 01)	5
Figure 8 - Team Member WhatsApp Calls (Example 02).....	6
Figure 9 - Teams Meeting with the Co-Supervisor (Example 01).....	7
Figure 10 - Teams Meeting with the Co-supervisor (Example 02)	7
Figure 11 - WhatsApp Call with External Supervisor (LSEG)	8
Figure 12 - Physical Meetings with team members.....	9
Figure 13 - WhatsApp Group Creation with Co-Supervisor	10
Figure 14 - WhatsApp Group Creation with Supervisor	11
Figure 15 - Gantt Chart (Project Timeline)	12
Figure 16 - Work Break-Down Structure	13
Figure 17 - GitHub Repository	14
Figure 18 - GitHub Repository (Component 04 Branch)	14
Figure 19 - GitHub Commits.....	16
Figure 20 - Git Graph	16
Figure 21 - GitHub Contributors	17
Figure 22 - Contributors Charts	18

Project Component and Current Status

Component: Skill-based Employee KPI Generator

Progress

The system mainly focuses on generating KPIs based on created employees according to their experience, skills, and education.

The screenshot shows the 'Add Employee' form in the PM Pulse system. The form is divided into several sections:

- Role:** A dropdown menu with 'Business Analyst' selected.
- Personal Details:**
 - Name:** A text input field.
 - Age:** A text input field.
 - Home Town:** A text input field.
 - Phone Number:** A text input field.
- Skills:**
 - Analytical Skills:** A dropdown menu with '--Select a Value--'.
 - Technical Proficiency:** A dropdown menu with '--Select a Value--'.
 - Communication Skills:** A dropdown menu with '--Select a Value--'.
 - Problem Solving Skills:** A dropdown menu with '--Select a Value--'.
- Experiences:**
 - Years of experience in Business Analysis:** A dropdown menu with '--Select years--'.
 - Leadership/Team lead experience:** A dropdown menu with '--Select a Value--'.
 - Experience of Related Domain (Add all 4):** A section with a '+ Add Experience' button.
- Education:**
 - Bachelor's Degree:** A dropdown menu with '--Select a Value--'.
 - Master's Degree:** A dropdown menu with '--Select a Value--'.

Figure 1 - Employee Creation

- Requirements
- Add Employee
- View Employees
- View KPI**
- Add Skills
- Team
- Complexity
- Risk Type

Admin
Project Manager

Log Out

Employee's KPI

Domain: Finance
Job Role: Business Analyst
Submit

Employee ID	KPI Value	Role
BA1	10	Business Analyst
BA2	7.2	Business Analyst
BA3	3	Business Analyst
BA4	7.8	Business Analyst
BA5	4.85	Business Analyst
BA6	7.1	Business Analyst
BA7	5.6	Business Analyst
BA8	7.05	Business Analyst
BA9	7.35	Business Analyst
BA10	5.95	Business Analyst

1
2

Figure 2 – View employee KPIs.

- Requirements
- Add Employee
- View Employees
- View KPI
- Add Skills**
- Team
- Complexity
- Risk Type

Admin
Project Manager

Log Out

Operation: --Select a Operation--
Job Role: --Select a Role--

Type: --Select a Value--
Criteria:

Novice: Intermediate: Advanced:

1-2 Years: 3-5 Years: 5+ Years:

0-5 Years: 6-14 Years: 15+ Years:

Related: Un Related:

Lead: Non Lead:

Weight:

CRUD Operation

Figure 3 - Add employee skills.

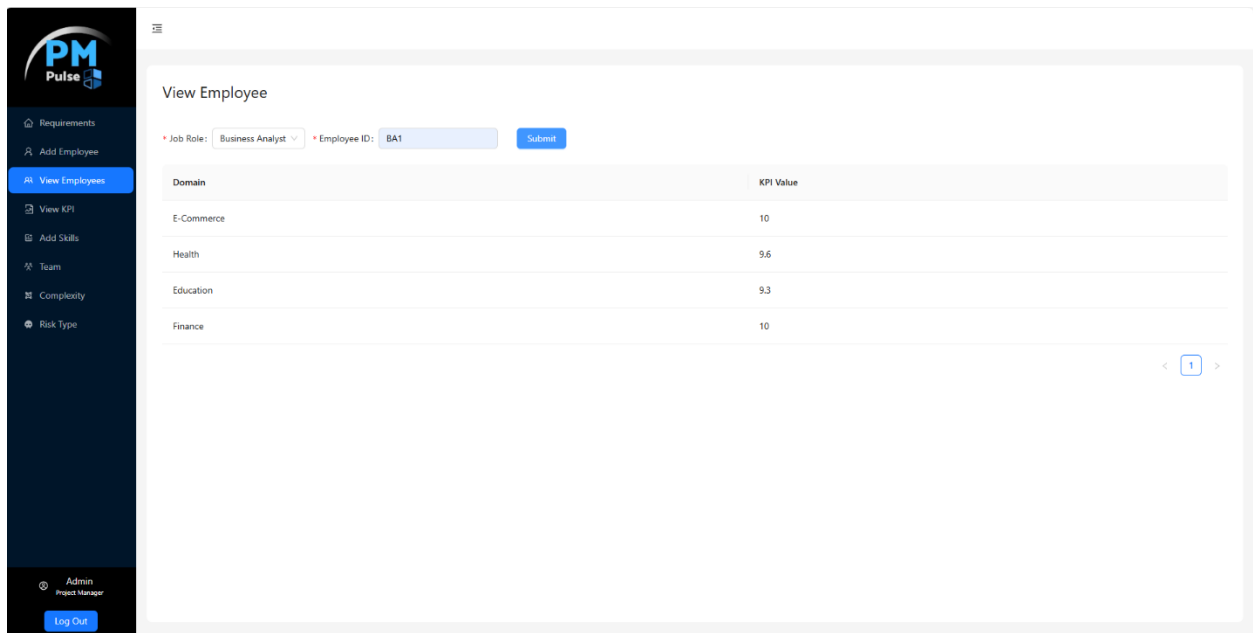


Figure 4 - Created user.

Team Communication

The team chose Microsoft Teams as their primary communication channel, forming a dedicated Team with all four group members. We also used Zoom to communicate with supervisors, provide updates, and receive comments on the project's progress. Regular team conversations were arranged to discuss, share knowledge, and plan.

The crew also used WhatsApp as an additional tool to stay in constant communication with their supervisors. This enabled timely updates and cooperation between the supervisor and co-supervisor, ensuring that everyone was informed and on the same page throughout the project.

Teams Channel

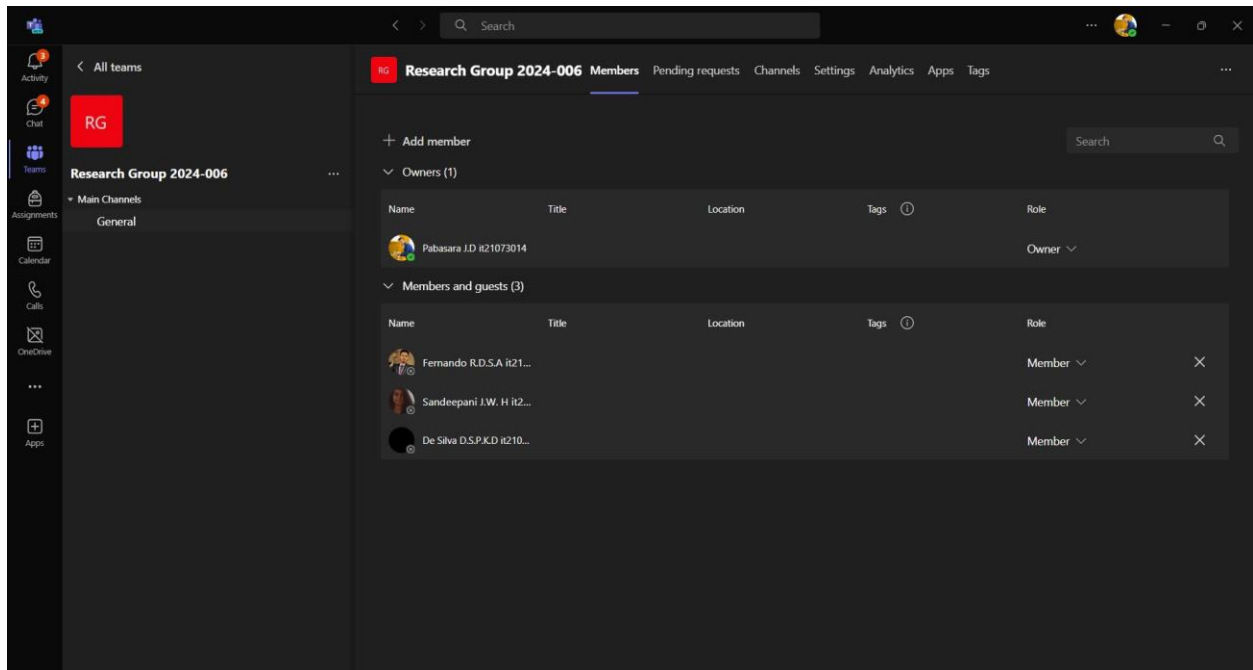


Figure 5 - Teams Channel Creation

Teams Calls with the Research Team

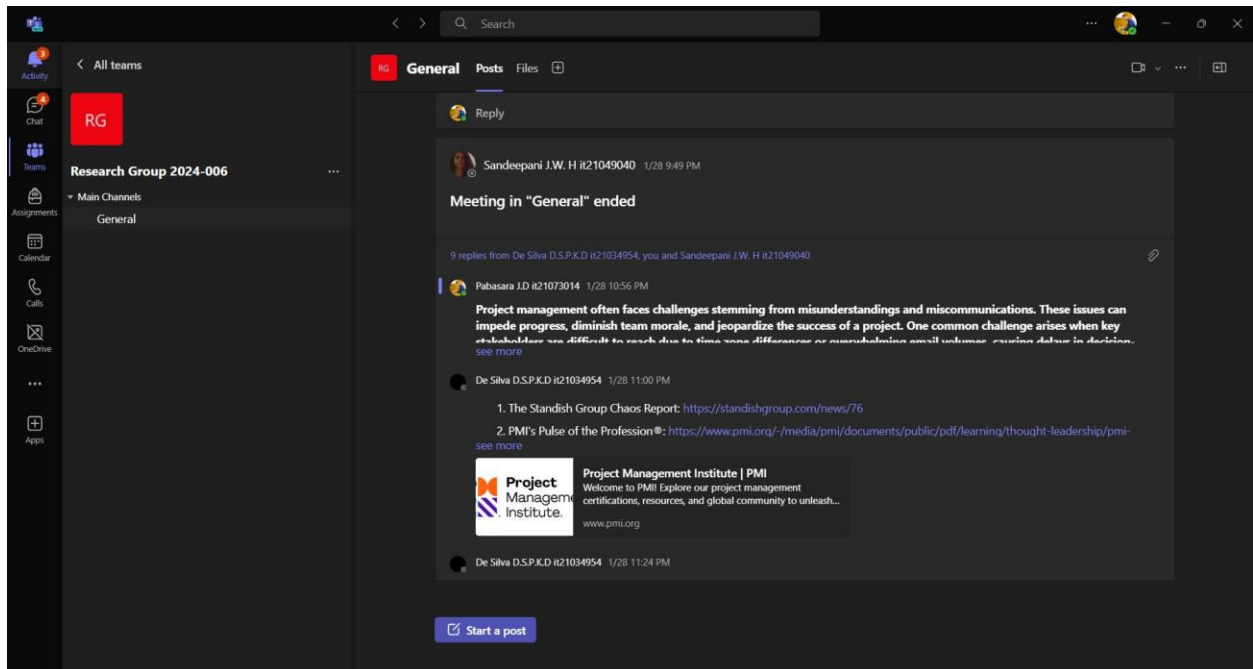


Figure 6 - Overview of Team Calls and Communication

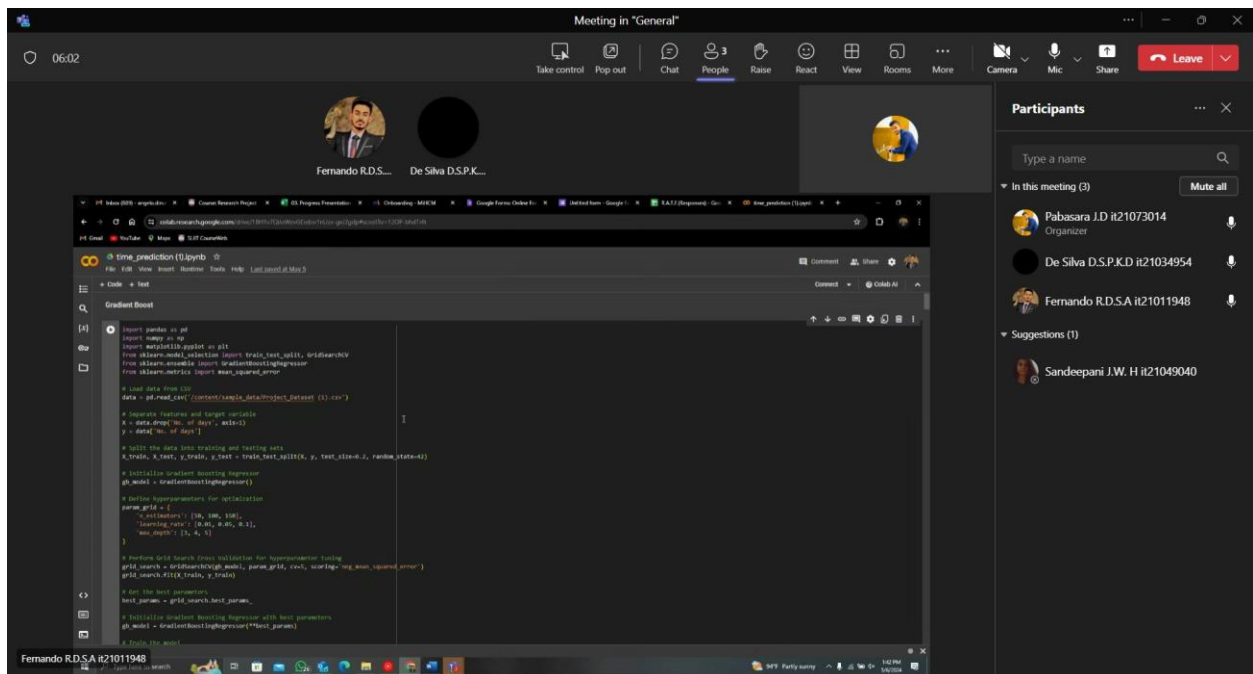


Figure 7 - Team Member Teams Calls (Example 01)

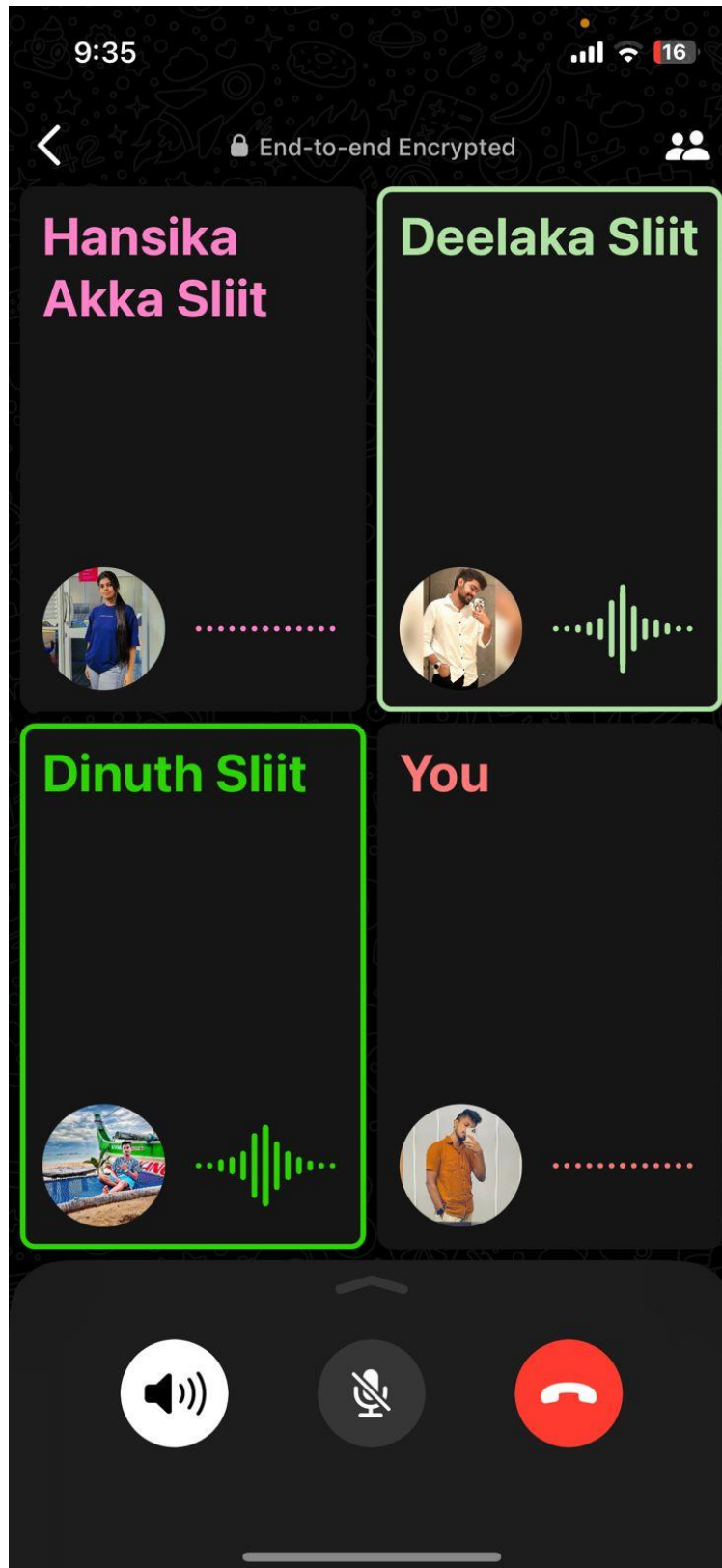


Figure 8 - Team Member WhatsApp Calls (Example 02)

Online Calls with Supervisors

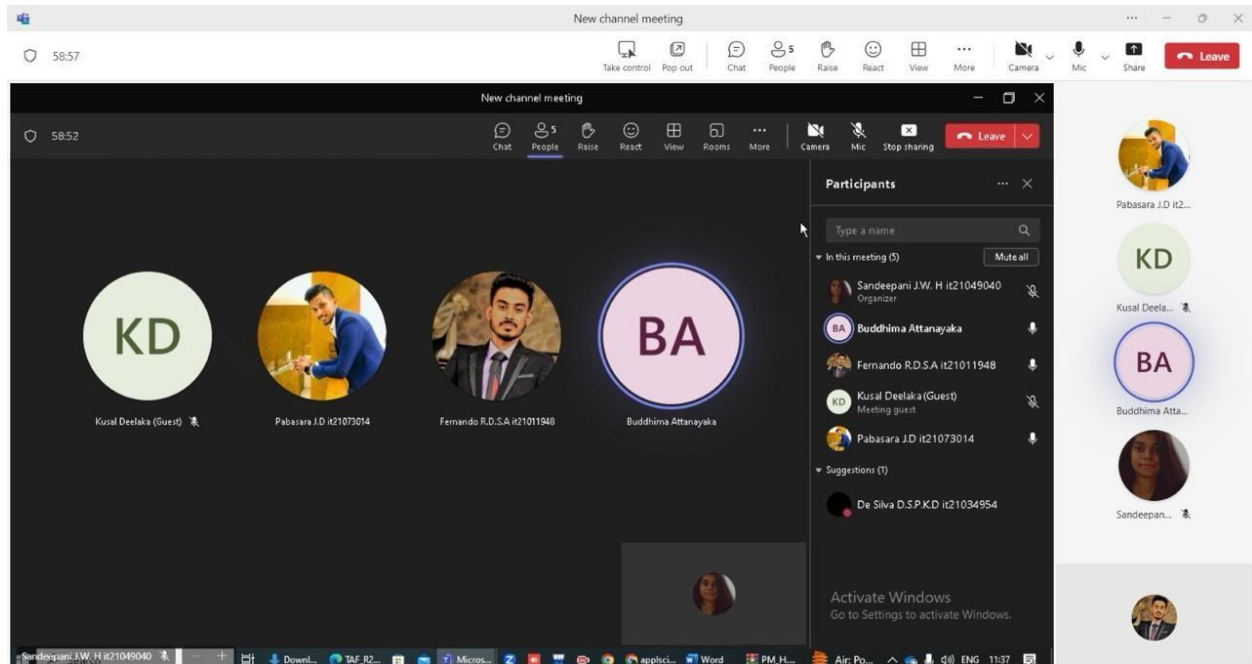


Figure 9 - Teams Meeting with the Co-Supervisor (Example 01)

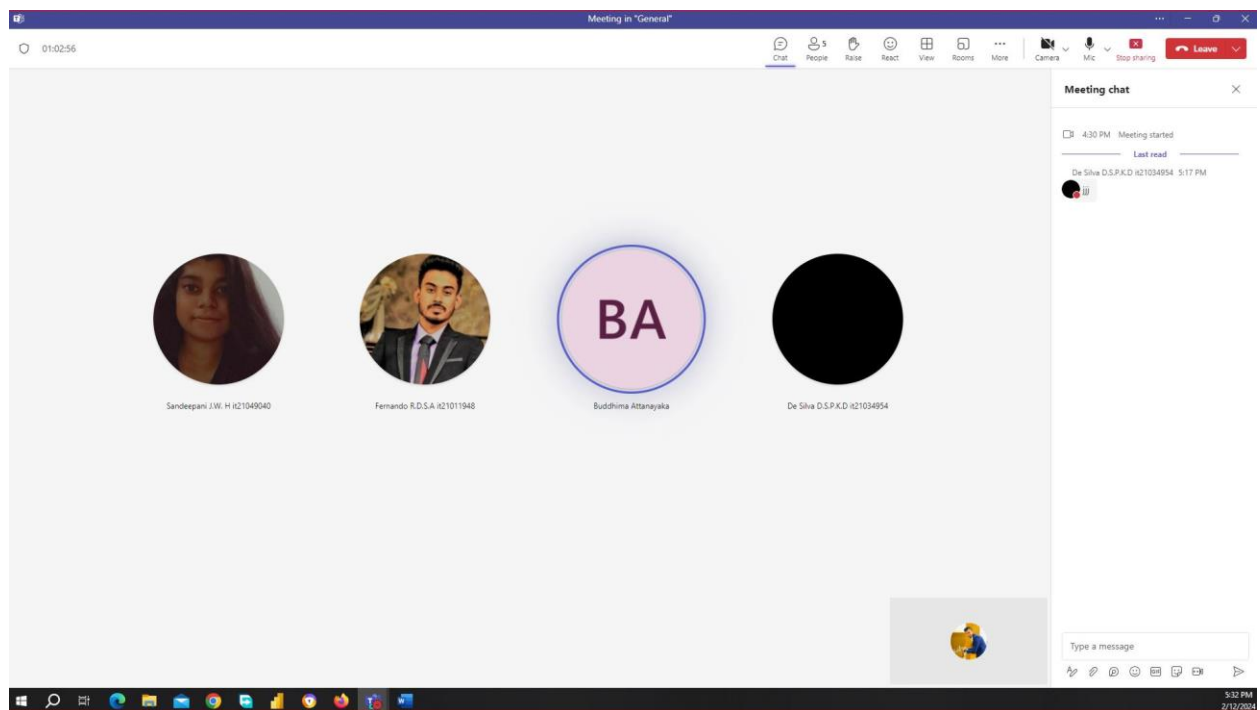


Figure 10 - Teams Meeting with the Co-supervisor (Example 02)

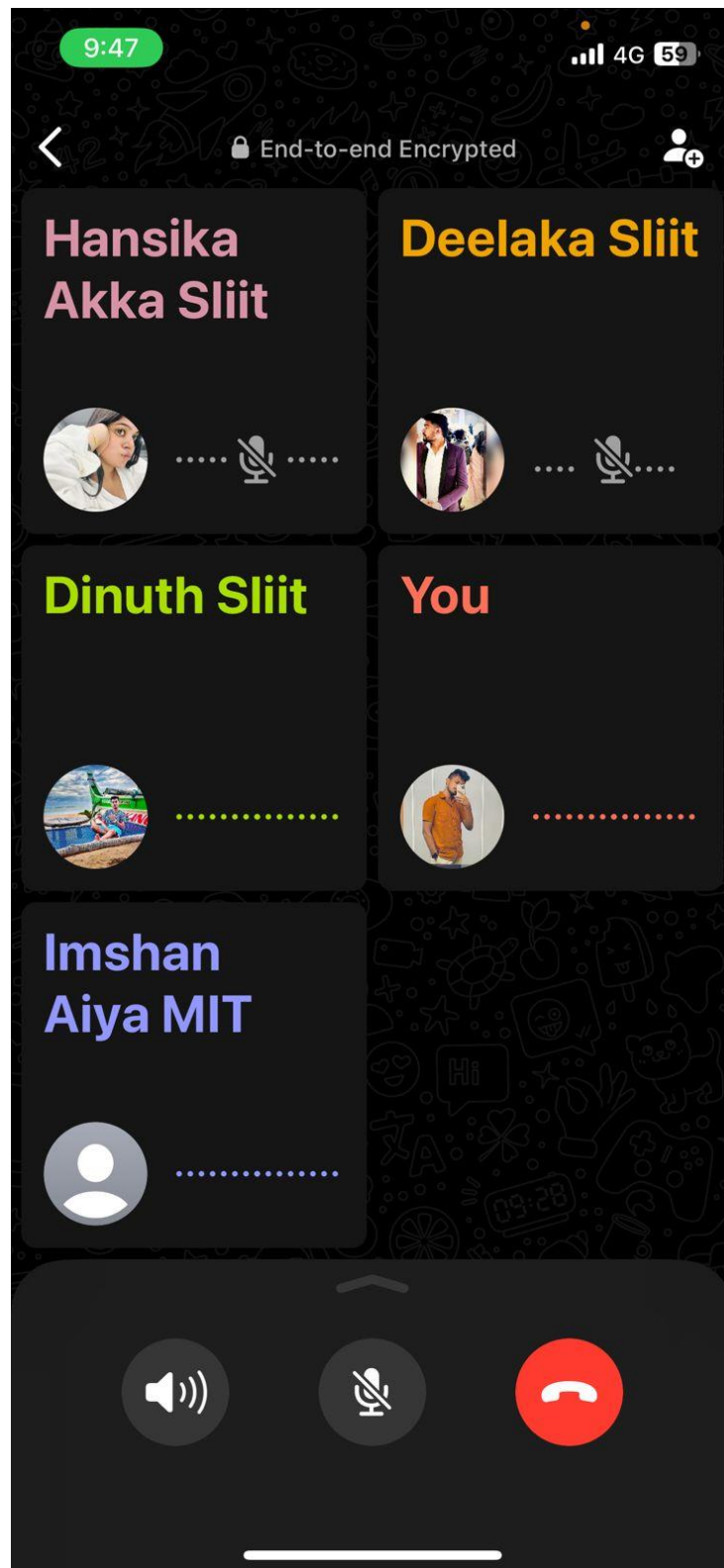


Figure 11 - WhatsApp Call with External Supervisor (LSEG)

Physical Meetings with Group Members



Figure 12 - Physical Meetings with team members.

WhatsApp Group Creation

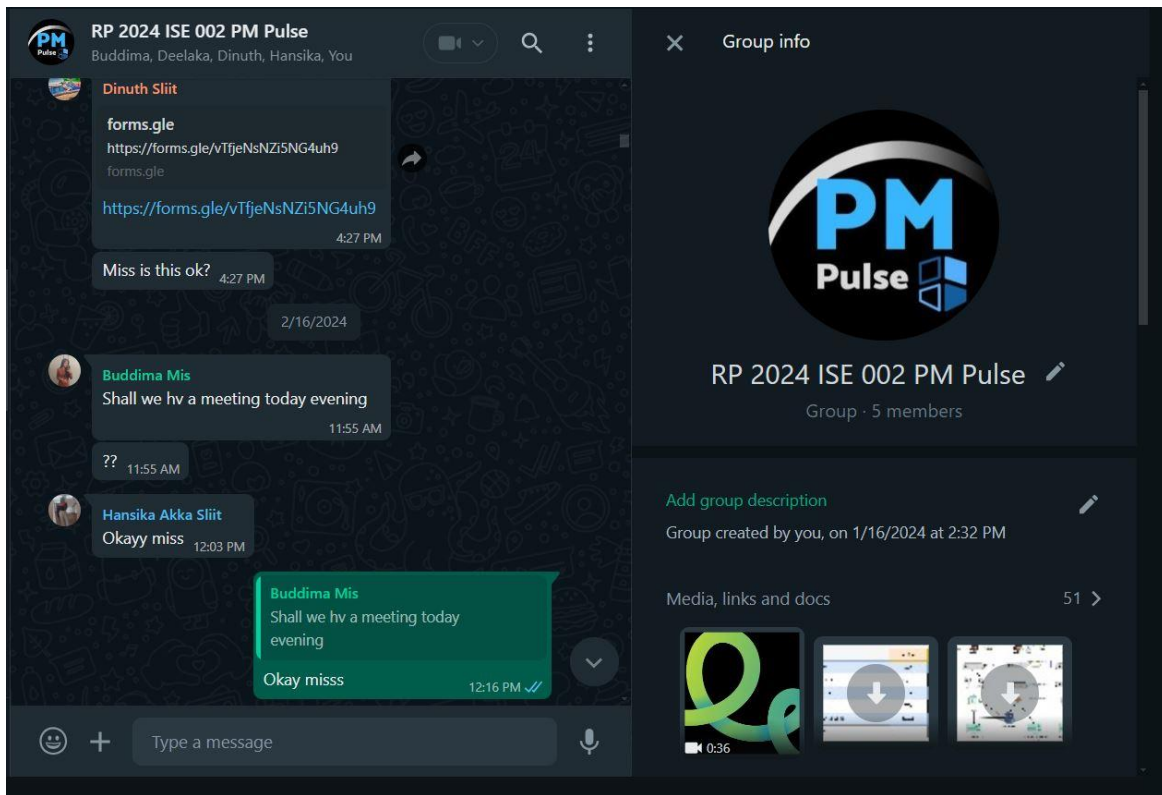
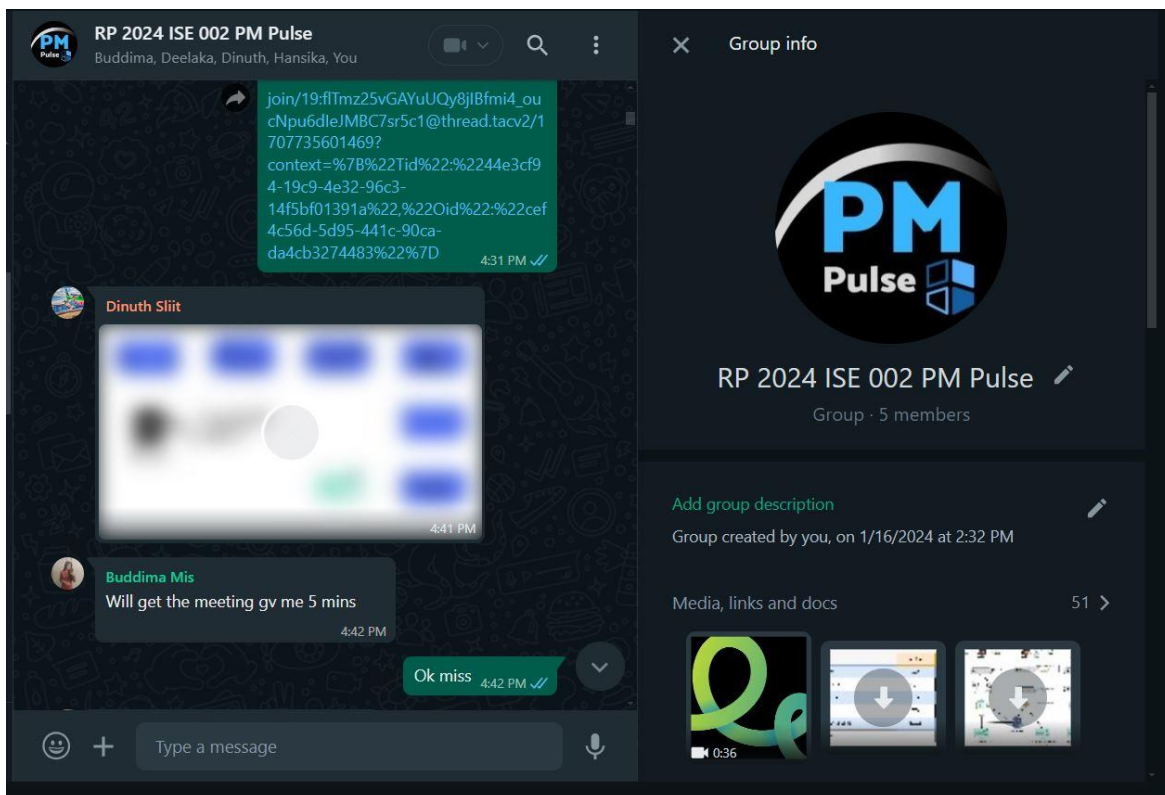


Figure 13 - WhatsApp Group Creation with Co-Supervisor



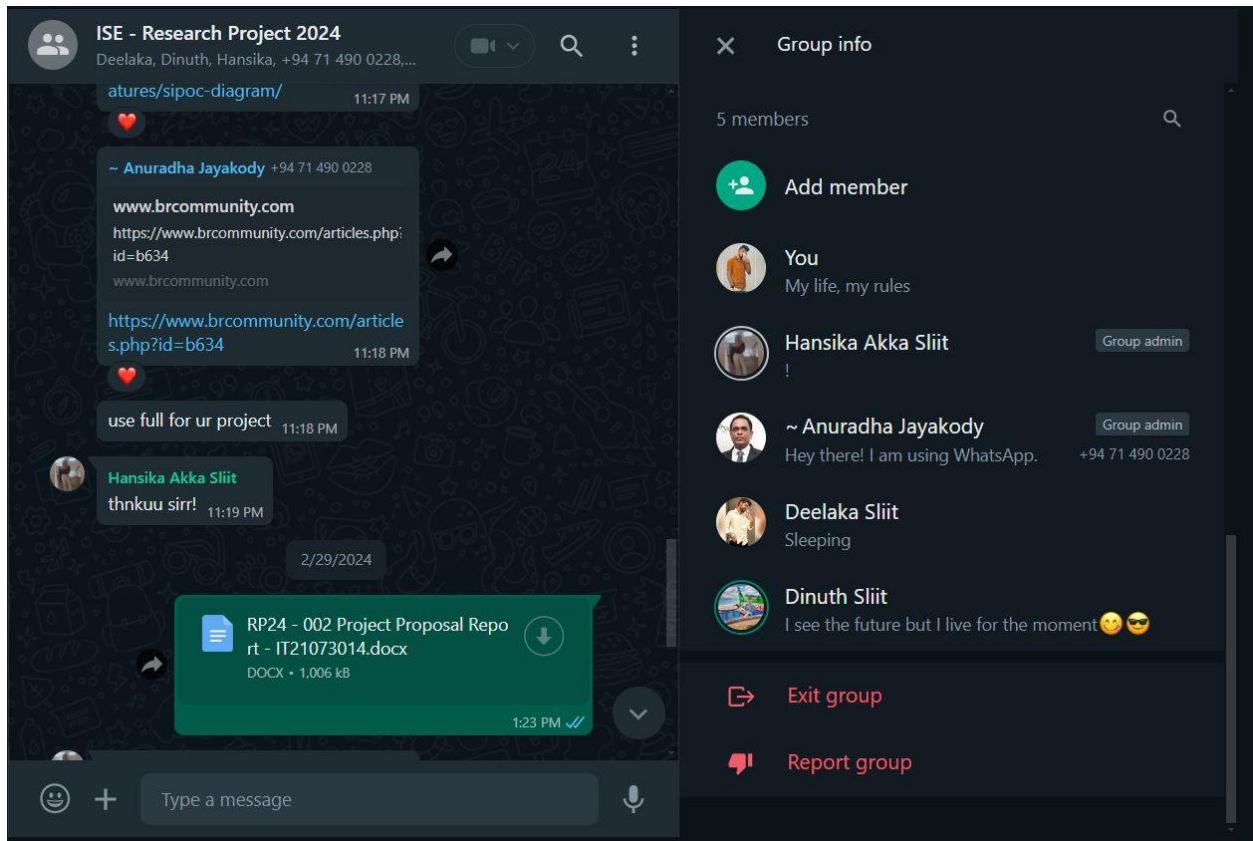


Figure 14 - WhatsApp Group Creation with Supervisor

Project Timeline

We put together a Gantt chart that outlines the entire timeline of our project, encompassing all the deadlines for our deliverables. This visual representation provides a comprehensive overview of our project's progression from its inception to its completion.

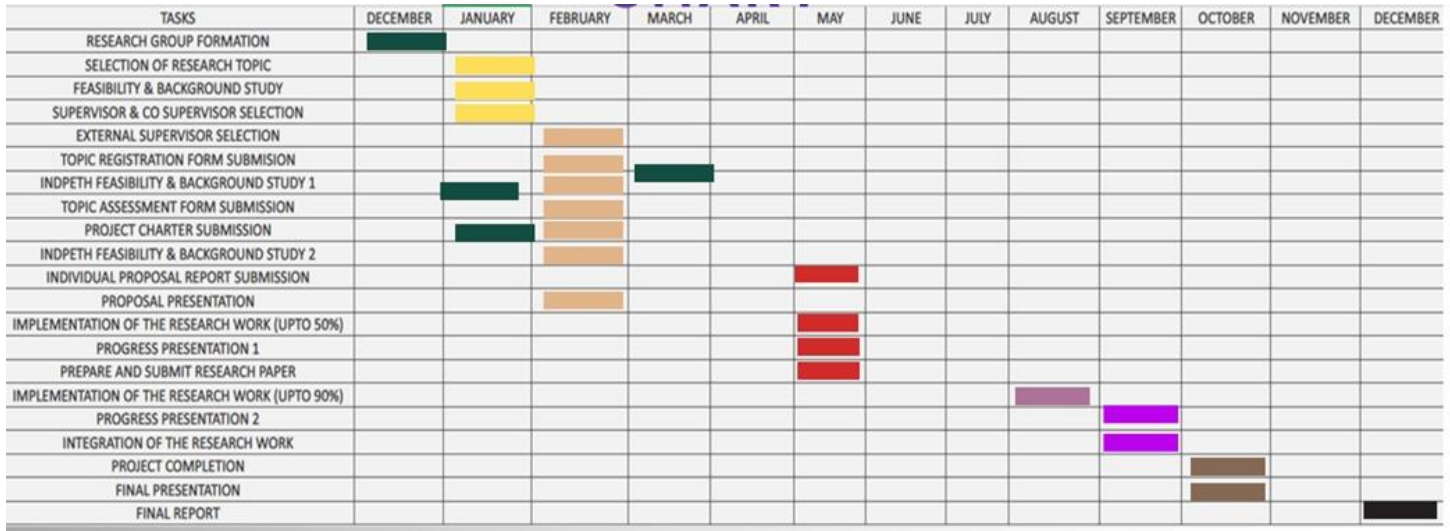


Figure 15 - Gantt Chart (Project Timeline)

Work Break-Down

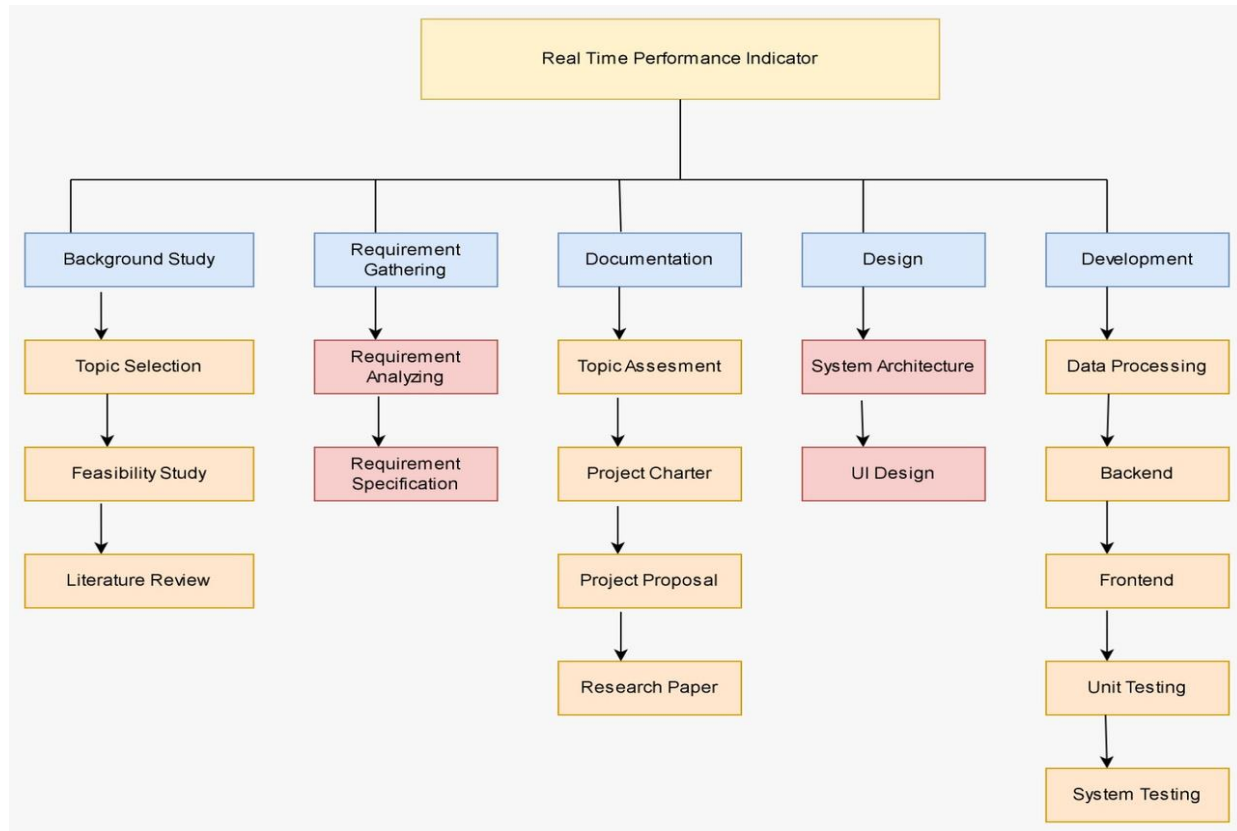


Figure 16 - Work Break-Down Structure

Version Controlling

The team implemented GitHub as their version control system, creating a repository that included all four group members. Each member was responsible for committing their code changes and progress to the repository.

To ensure transparency and collaboration, all code changes were incrementally committed and pushed to individual branches. These branches were later merged into the main branch during weekly meetings. This approach allowed for effective version control and streamlined collaboration among team members.

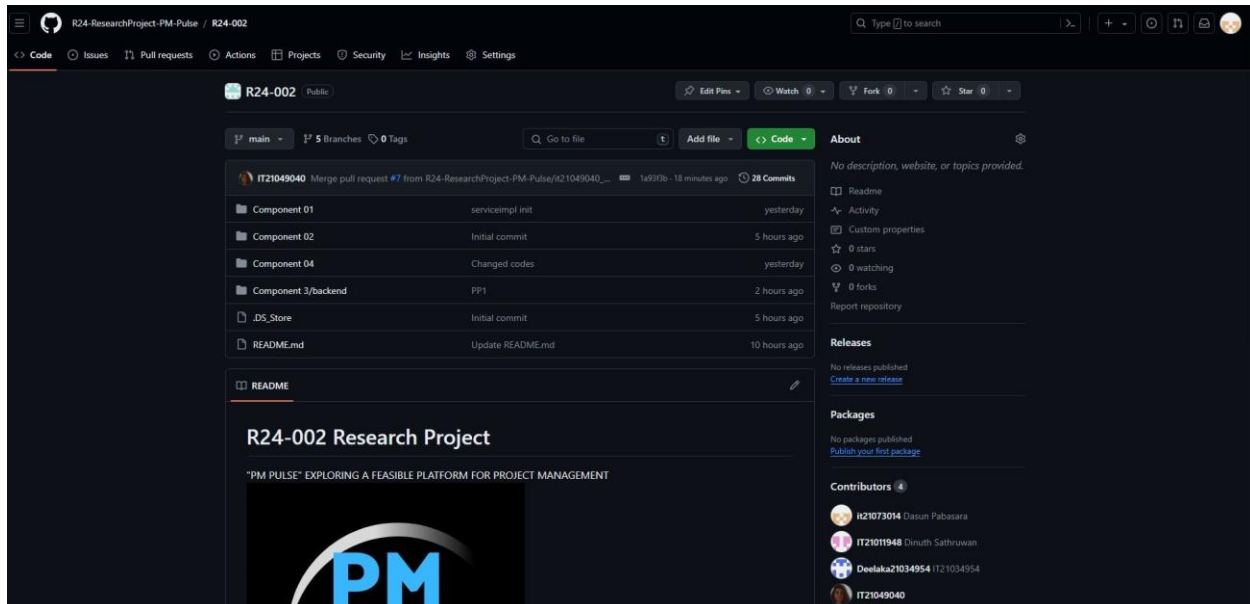


Figure 17 - GitHub Repository

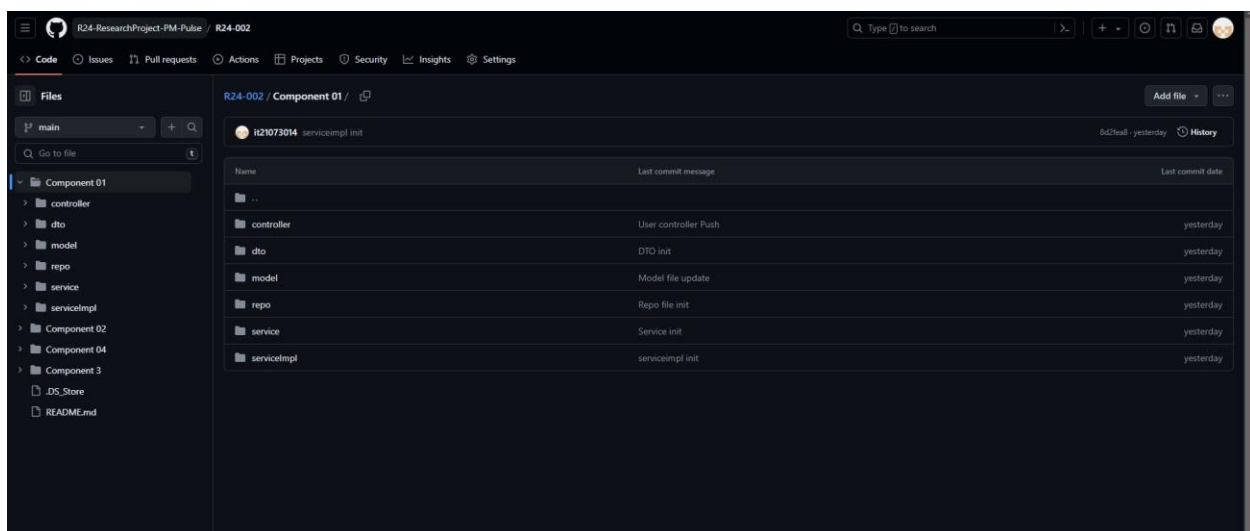


Figure 18 - GitHub Repository (Component 04 Branch)

GitHub Commits

Commits

main

Commits on May 5, 2024

Merge pull request #7 from R24-ResearchProject-PM-Pulse/it21049040_component_03	Verified	1a93f73b	<>
PP1		68f50a6	<>
Initial commit		9a7885a	<>
Merge pull request #6 from R24-ResearchProject-PM-Pulse/it21034954_component_02	Verified	241a32a	<>
test		853c5e8	<>
Update README.md	Verified	7087504	<>
Update README.md	Verified	6910808	<>
Update README.md	Verified	93c6c38	<>
Update README.md	Verified	8a6c816	<>
Merge pull request #5 from R24-ResearchProject-PM-Pulse/it21011948_component_04	Verified	1c91e1c	<>

Merge pull request #5 from R24-ResearchProject-PM-Pulse/it21011948_component_04	Verified	1c91e1c	<>
Changed codes		86a6363	<>
Merge pull request #4 from R24-ResearchProject-PM-Pulse/it21011948_component_04	Verified	8b4854b	<>
Time Prediction Model		d2ae275	<>
Deployed Time Prediction Model		79fc779	<>
Deployed Time Prediction Model		7395e5f	<>
Time Prediction Model		73d2de7	<>
Merge pull request #3 from R24-ResearchProject-PM-Pulse/it21011948_component_04	Verified	8468099	<>
Create Folders for Component		d8d8925	<>
Commits on May 4, 2024			
Merge pull request #2 from R24-ResearchProject-PM-Pulse/it21073014_component_01	Verified	6f9a584	<>
serviceimpl init		8d2fca8	<>
Service init		f867622	<>
Repo file init		1c18ab4	<>

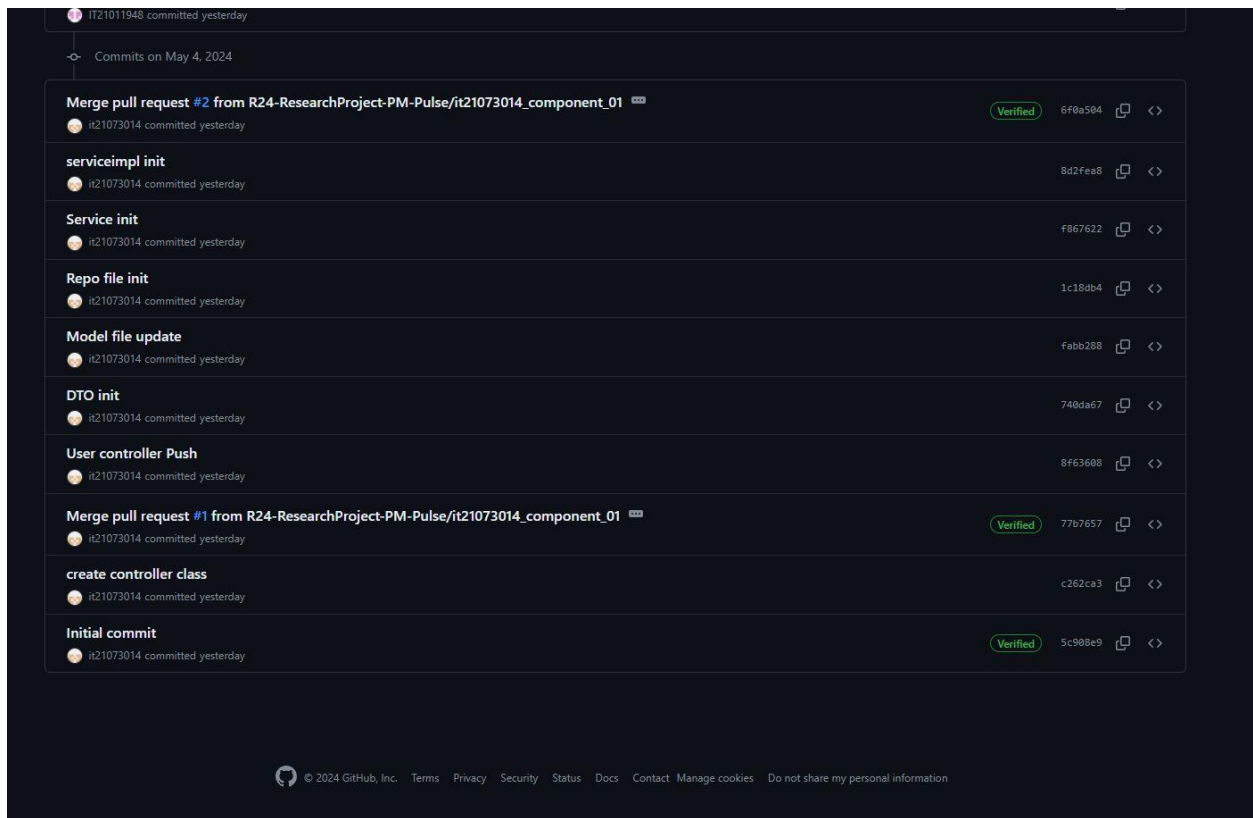


Figure 19 - GitHub Commits

GitHub Graph of Commits

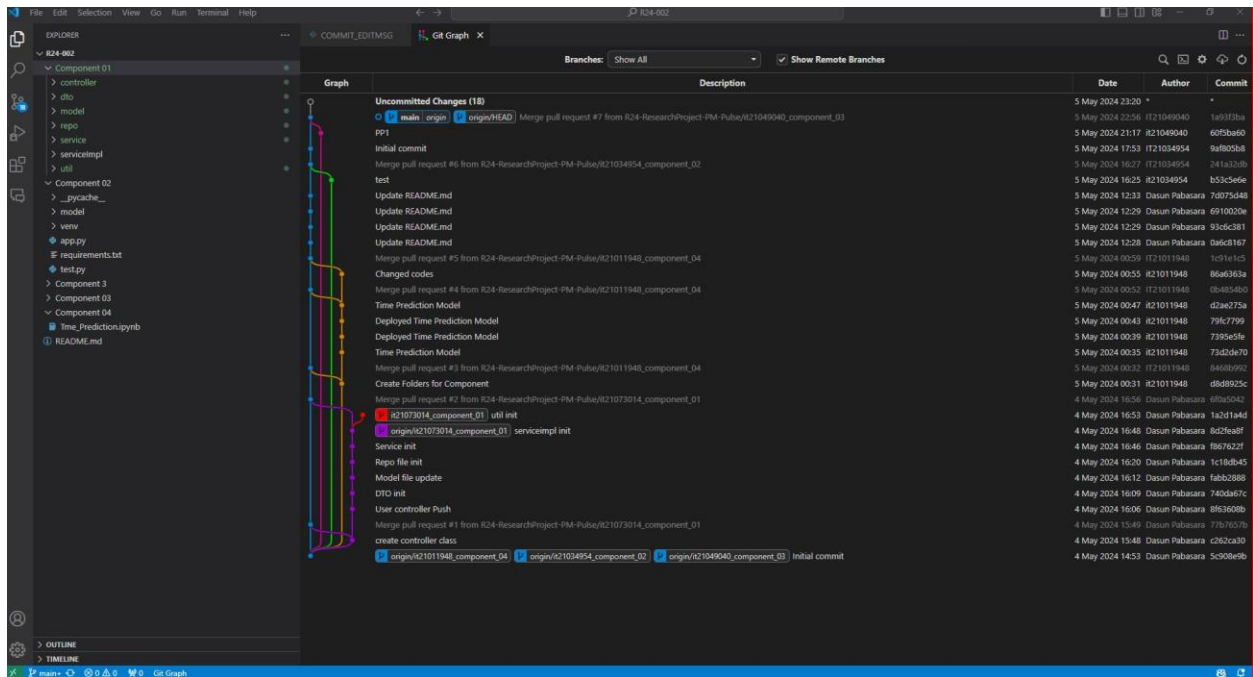


Figure 20 - Git Graph

GitHub Contributors

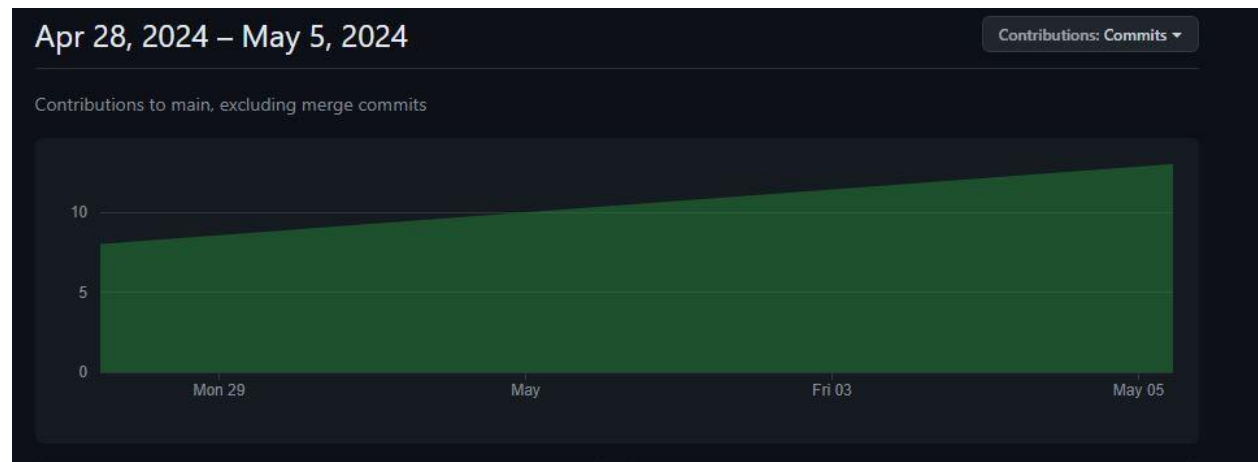


Figure 21 - GitHub Contributors

Contribution Charts

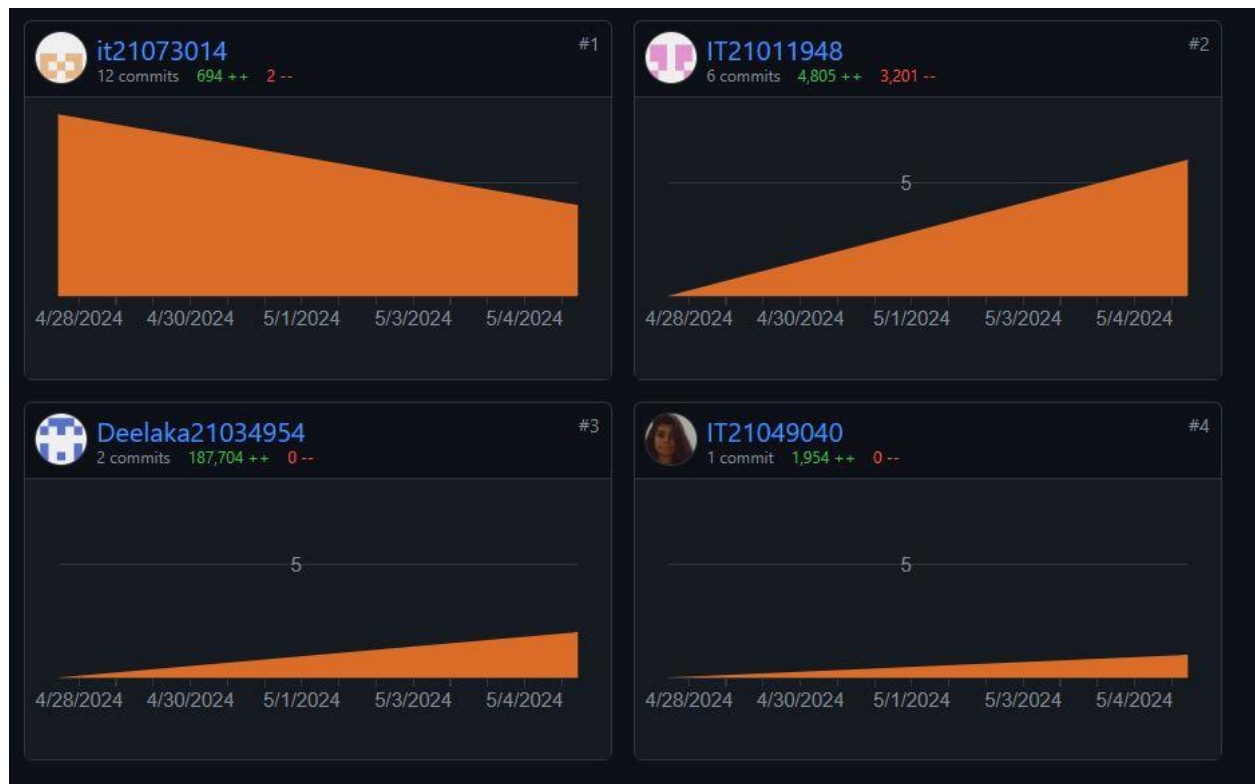


Figure 22 - Contributors Charts