

INT₂X: EXPLANATION FOR THE CAUSES OF A PREDICTION

23-142

Project Status Document I

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1. Work Breakdown Structure

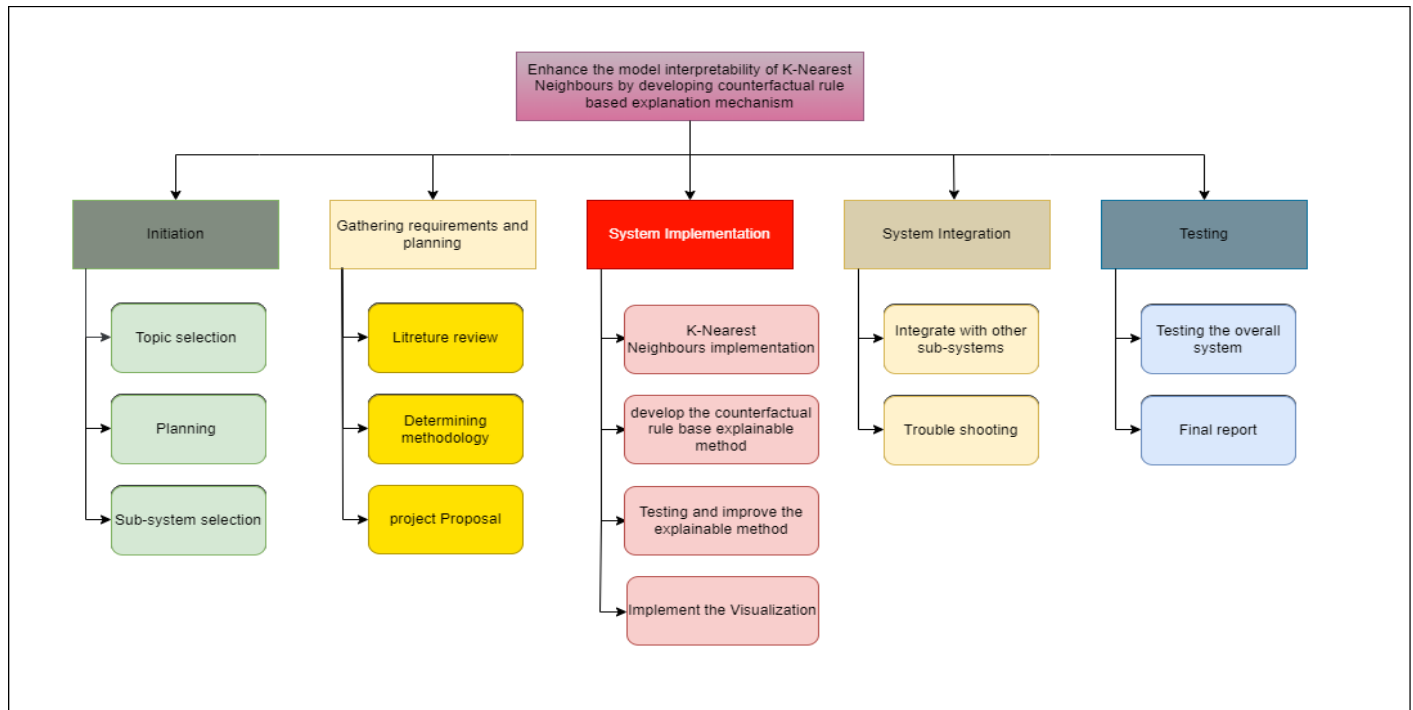


Figure 1: work Breakdown Chart

2.Gannt Chart

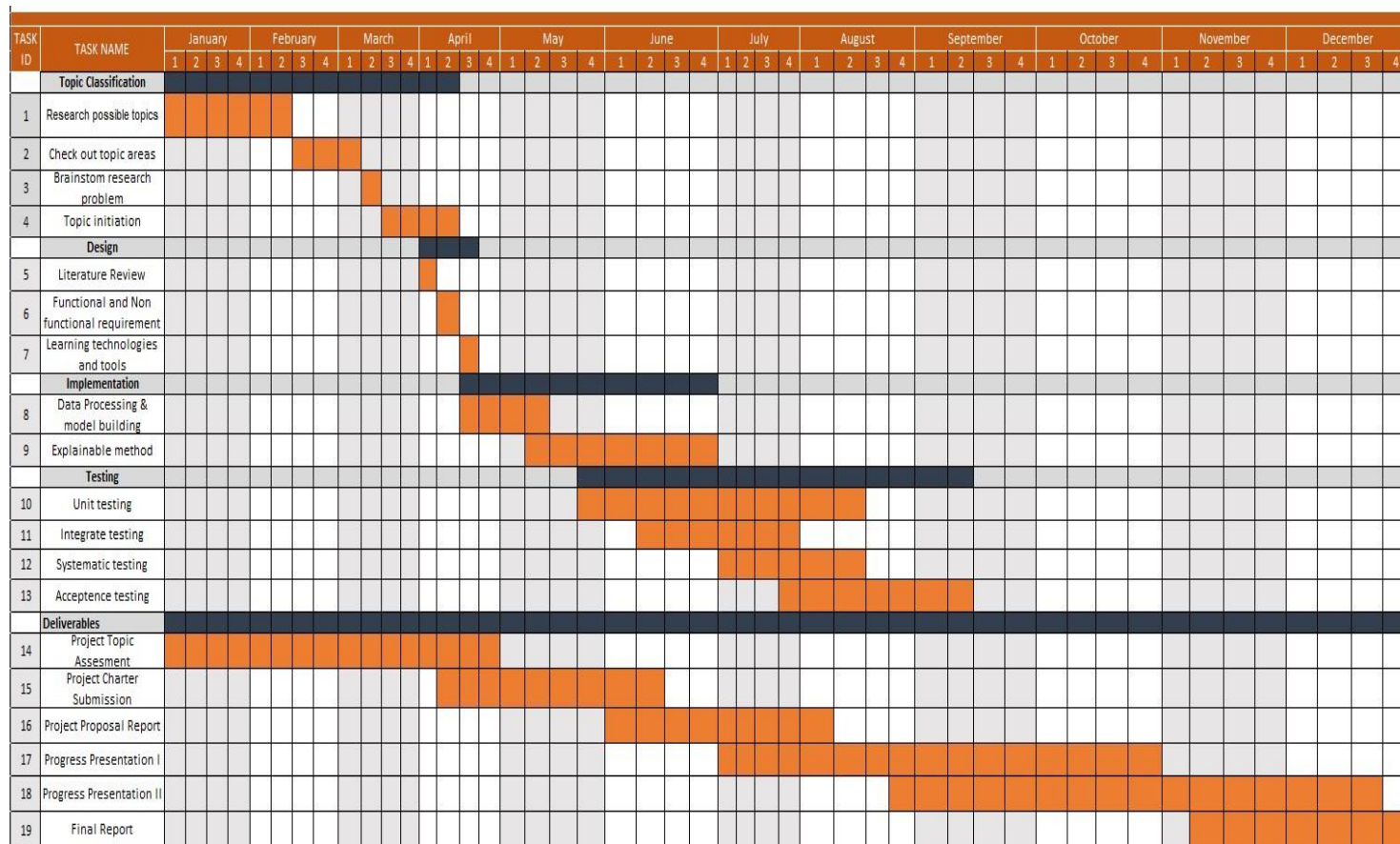


Figure 2: Gantt Chart

3. Discussion Meetings

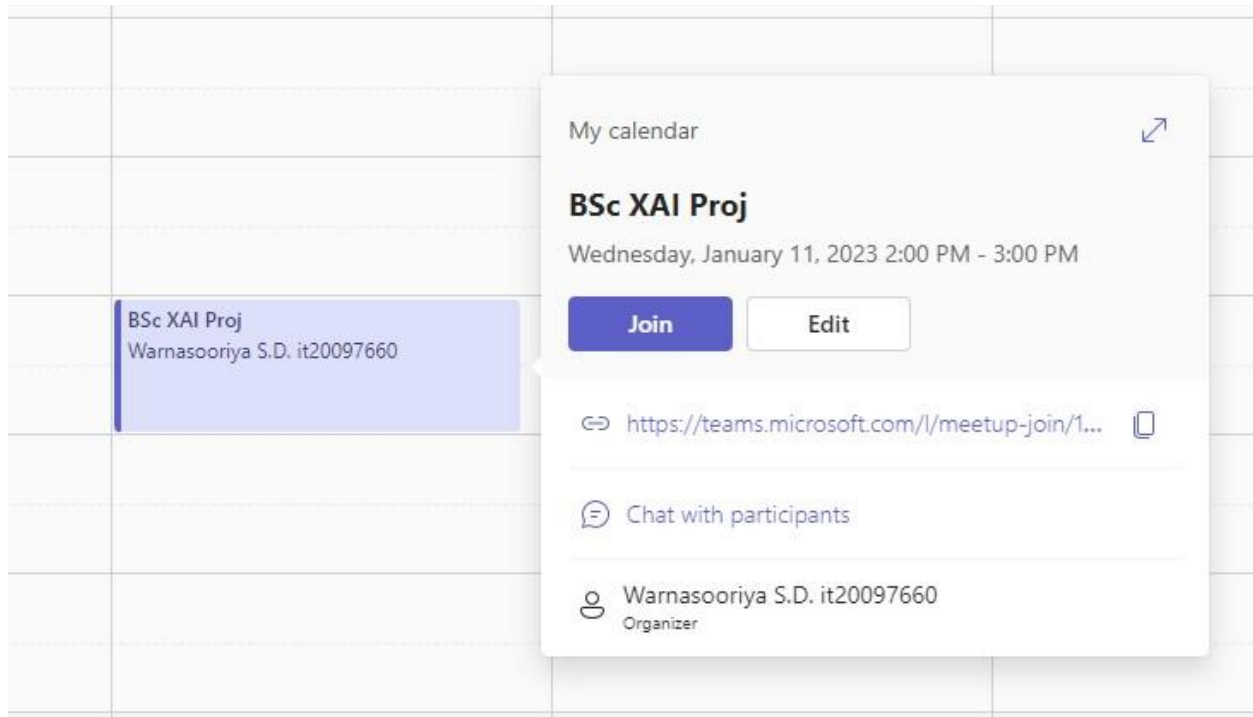


Figure 3: Topic Finalizing Meeting

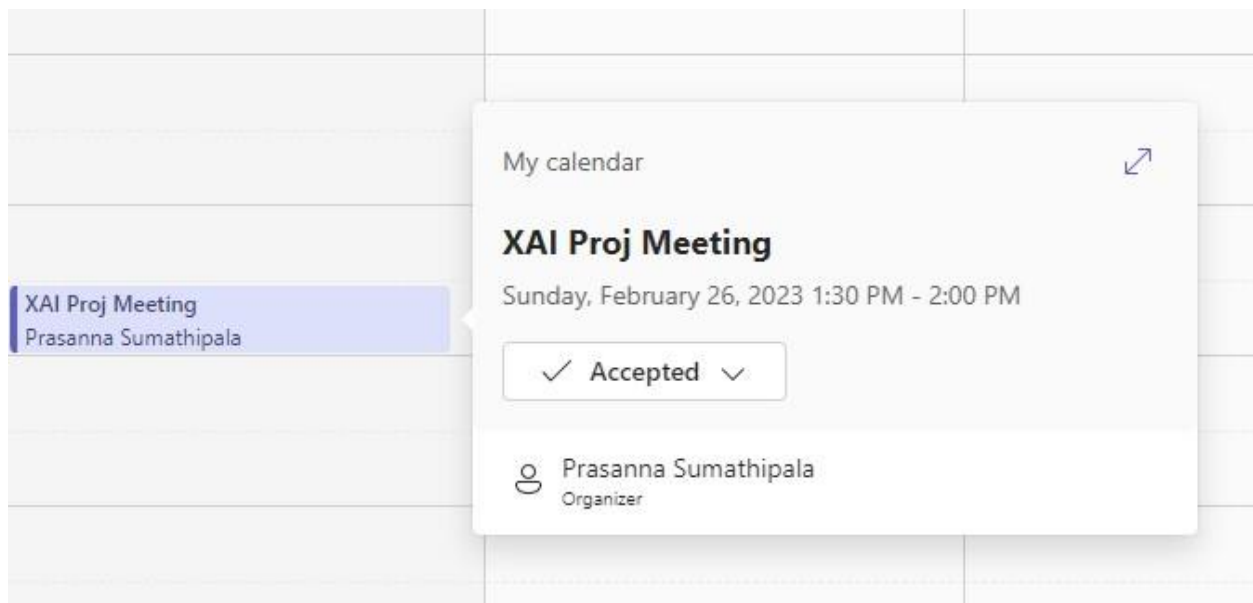


Figure 4: Research Problem Discussion Meeting

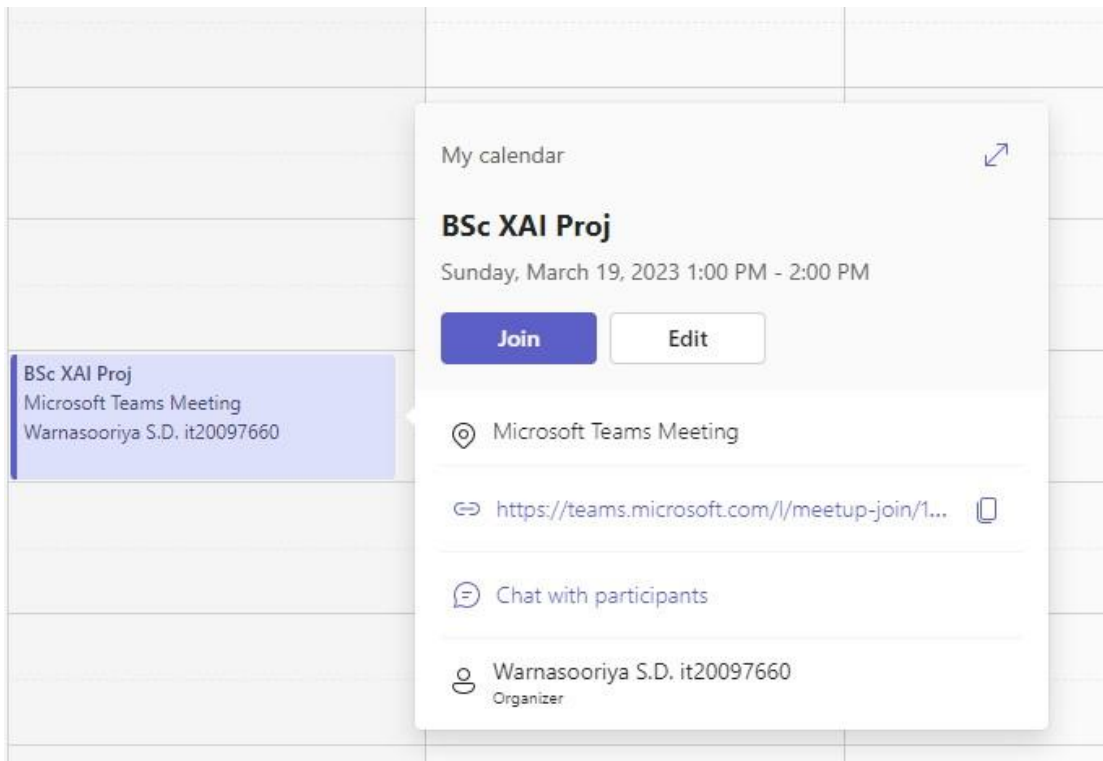


Figure 5: Proposal Presentation Discussion Meeting

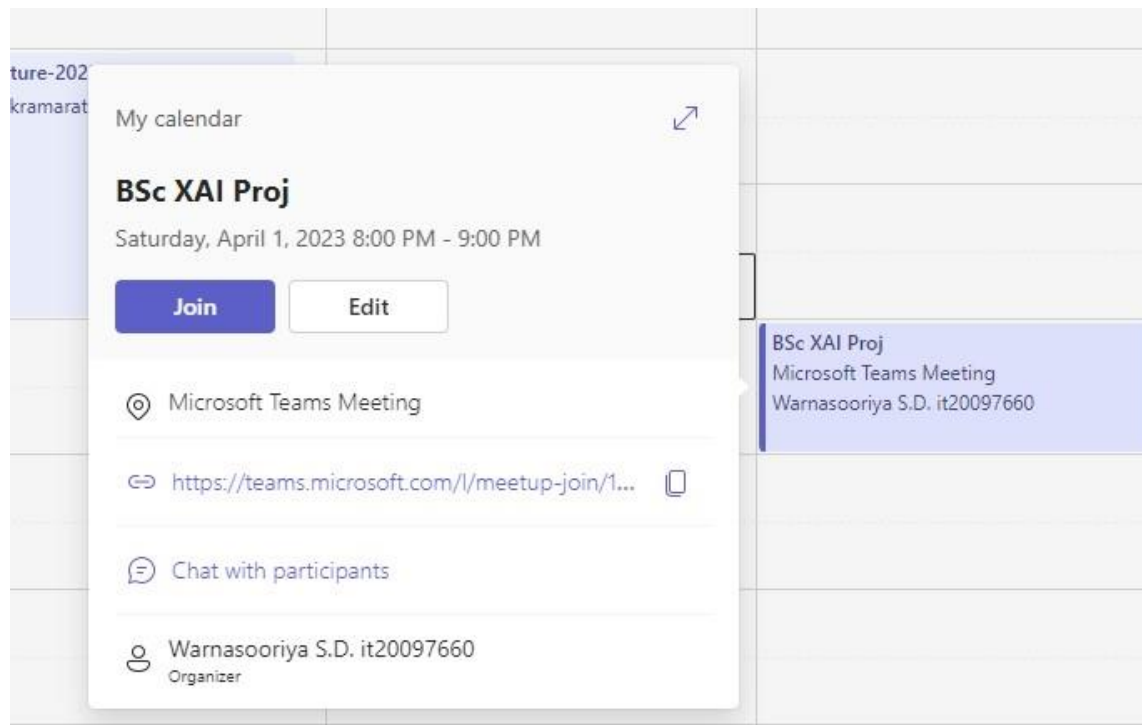


Figure 6: Proposal Report Discussion Meeting

Figure 21: Proposal Report Discussion Meeting

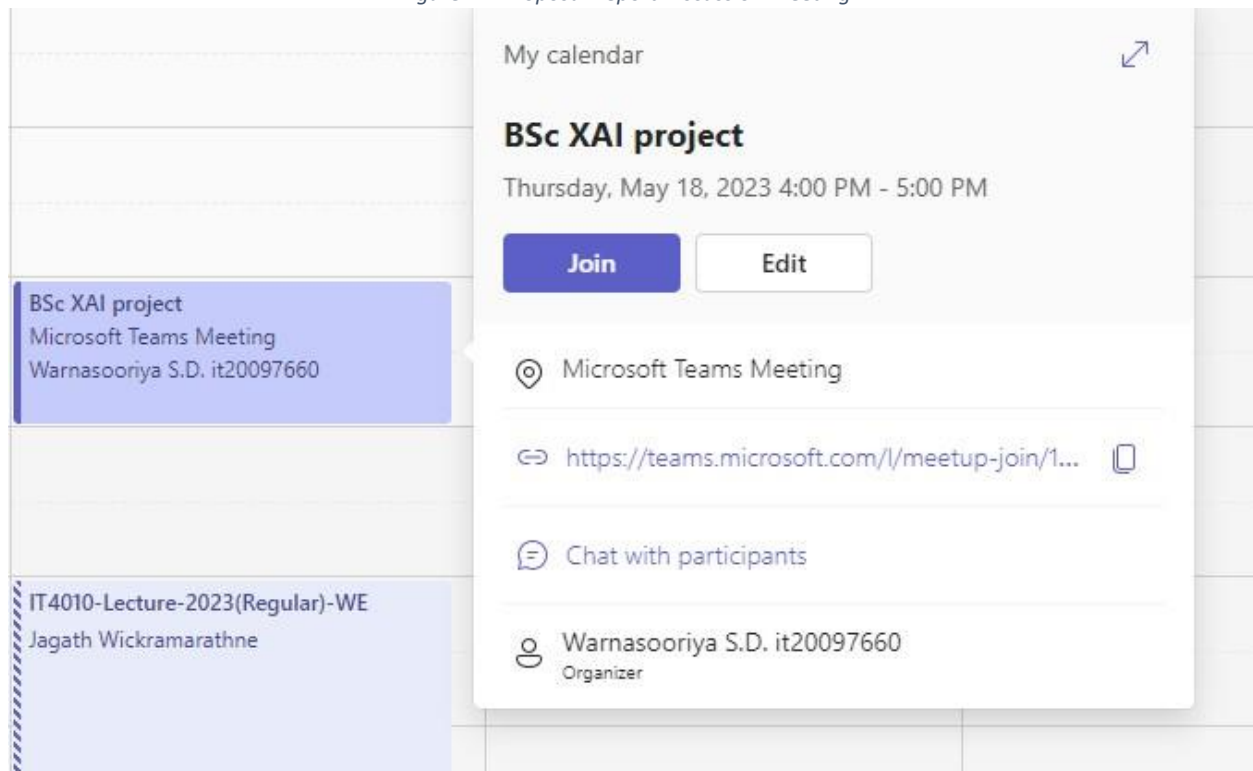


Figure 7: Progress Presentation Discussion Meeting

4. Emails

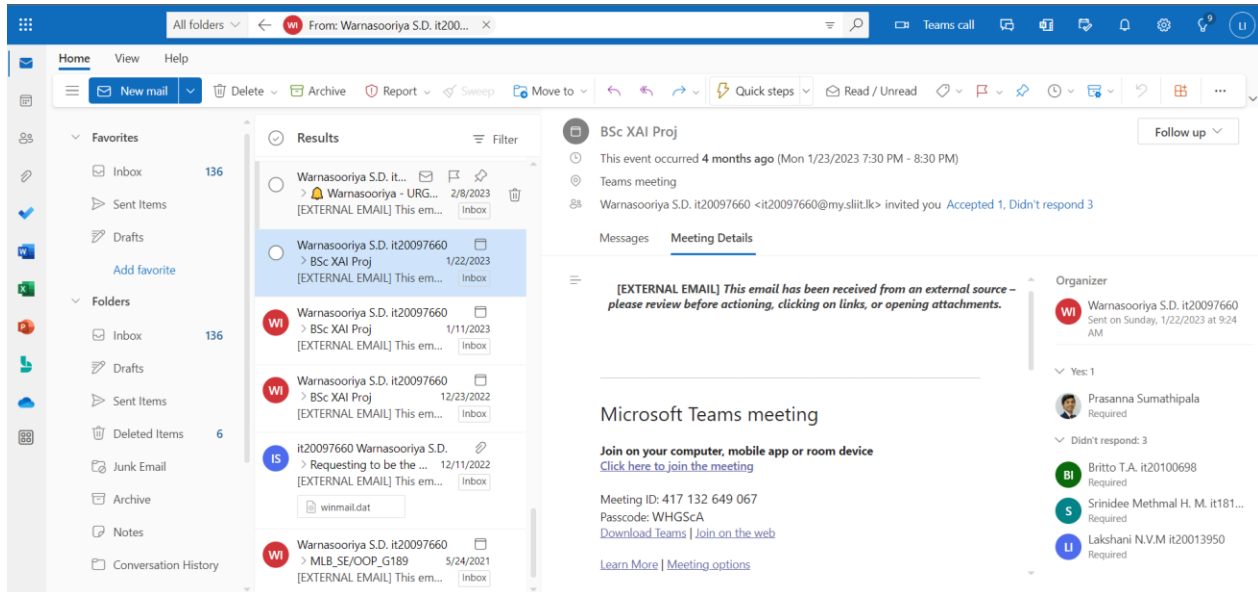


Figure 8: Emails to Supervisor

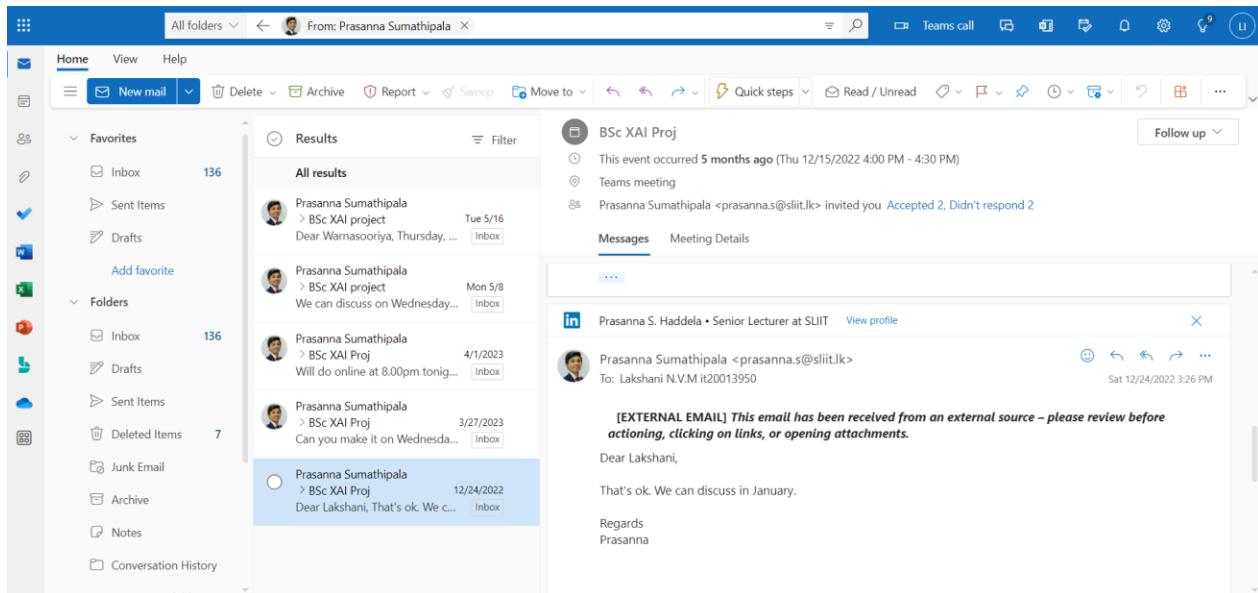


Figure 9: Emails from supervisor

5. Microsoft Planner

5.1 Microsoft Planner Board

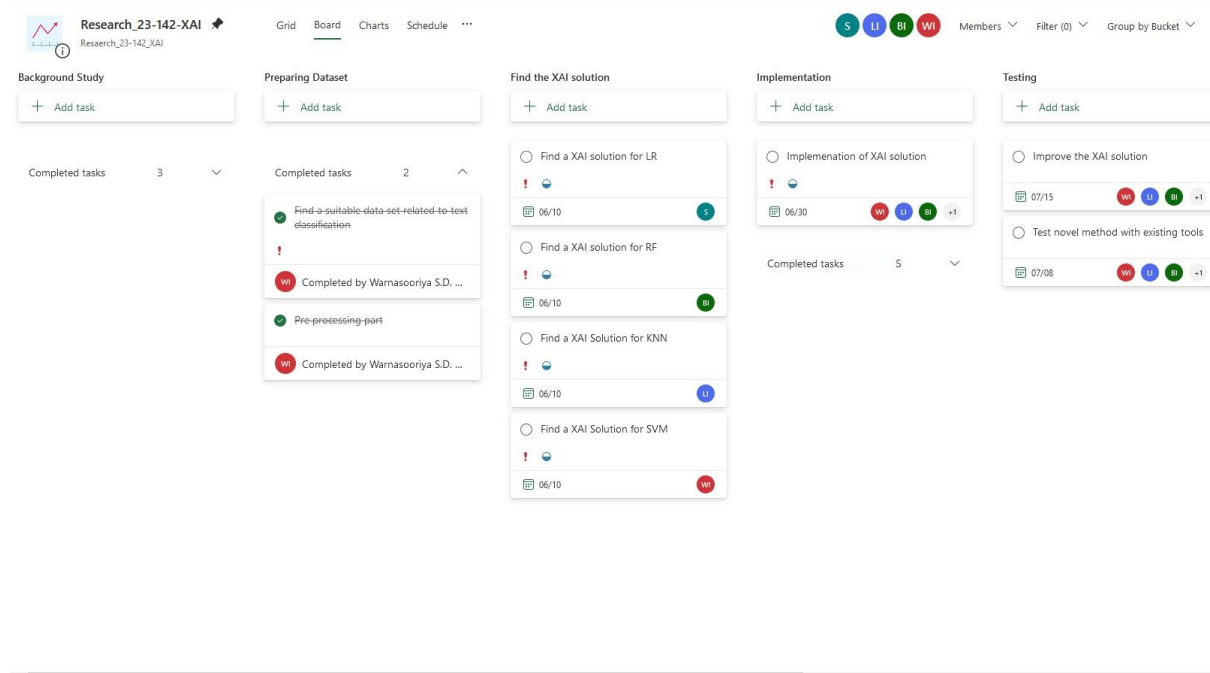


Figure 10: Planner Board

5.2 Completed and In-Progress Tasks

Title	Assignment	Start Date	Due Date	Bucket	Progress	Priority
Improve the XAI solution	W, L, B, S		7/15/2023	Testing	Not started	Medium
Test novel method with existing tools	W, L, B, S		7/8/2023	Testing	Not started	Medium
Frontend-development	W, L, B, S		5/18/2023	Implementation	Completed	Medium
Implementation of XAI solution	W, L, B, S		6/30/2023	Implementation	In progress	Important
Find a XAI solution for LR	S, Srinidee Methmal I		6/10/2023	Find the XAI solut	In progress	Important
Find a XAI solution for RF	B, Britto T.A. it20100i		6/10/2023	Find the XAI solut	In progress	Important
Find a XAI Solution for KNN	L, Lakshani N.V.M it2		6/10/2023	Find the XAI solut	In progress	Important
Find a XAI Solution for SVM	W, Warnasooriya S.D.		6/10/2023	Find the XAI solut	In progress	Important
Logistic-Regression-Development	S, Srinidee Methmal I		5/20/2023	Implementation	Completed	Important
Knn-development	L, Lakshani N.V.M it2		5/20/2023	Implementation	Completed	Important
Random-Forest-Implementation	B, Britto T.A. it20100i		5/20/2023	Implementation	Completed	Important
Support-vector-Machine-development	W, Warnasooriya S.D.		5/20/2023	Implementation	Completed	Important
Pre-processing-part	W, L, B, S		3/21/2023	Preparing Dataset	Completed	Medium
Find-a-suitable-data-set-related-to-text-classification	W, L, B, S		3/11/2023	Preparing Dataset	Completed	Important
Run-the-codes-of-existing-methods(LIME,SHAP)	W, L, B, S		2/25/2023	Background Study	Completed	Medium
Find-Existing-XAI-methods-and-document	W, L, B, S		2/4/2023	Background Study	Completed	Important
Study-Research-Papers	W, L, B, S		1/14/2023	Background Study	Completed	Medium

Figure 11: Task Completion and In-Progress State

5.3 Charts

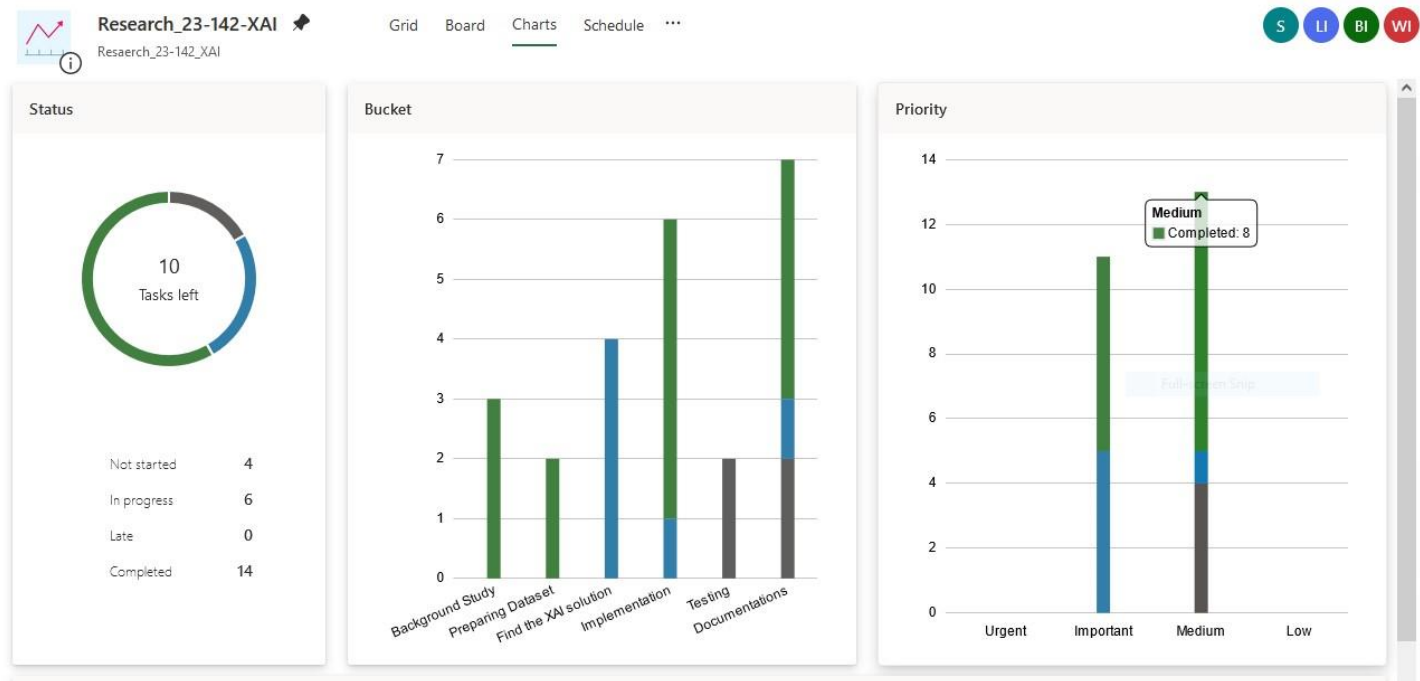


Figure 12: Charts

5.4 Team Planner Schedule

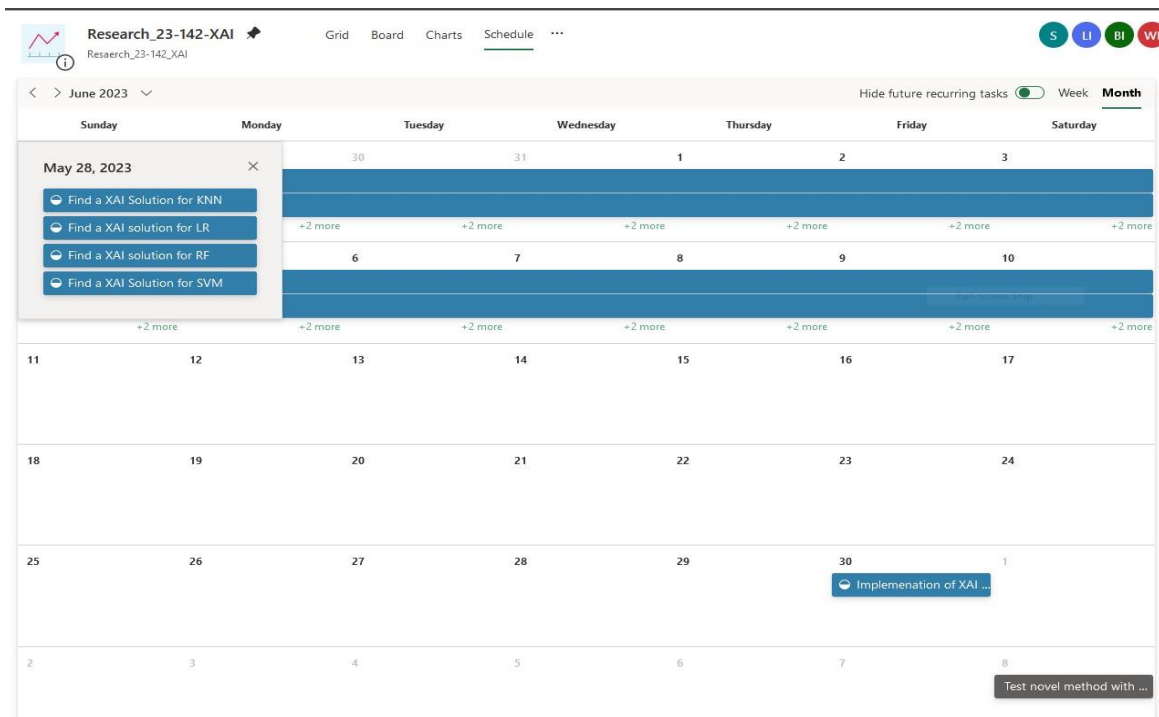


Figure 13: Team Planner Schedule

6. Documentation Work

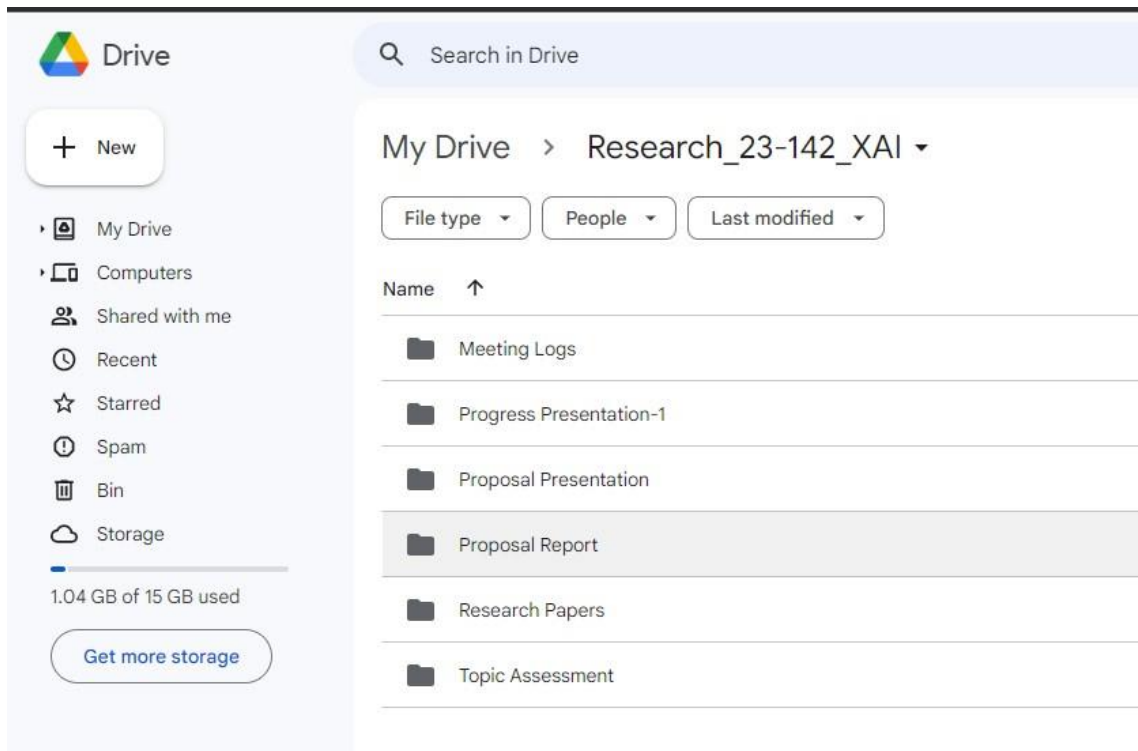


Figure 14: Drive Folders

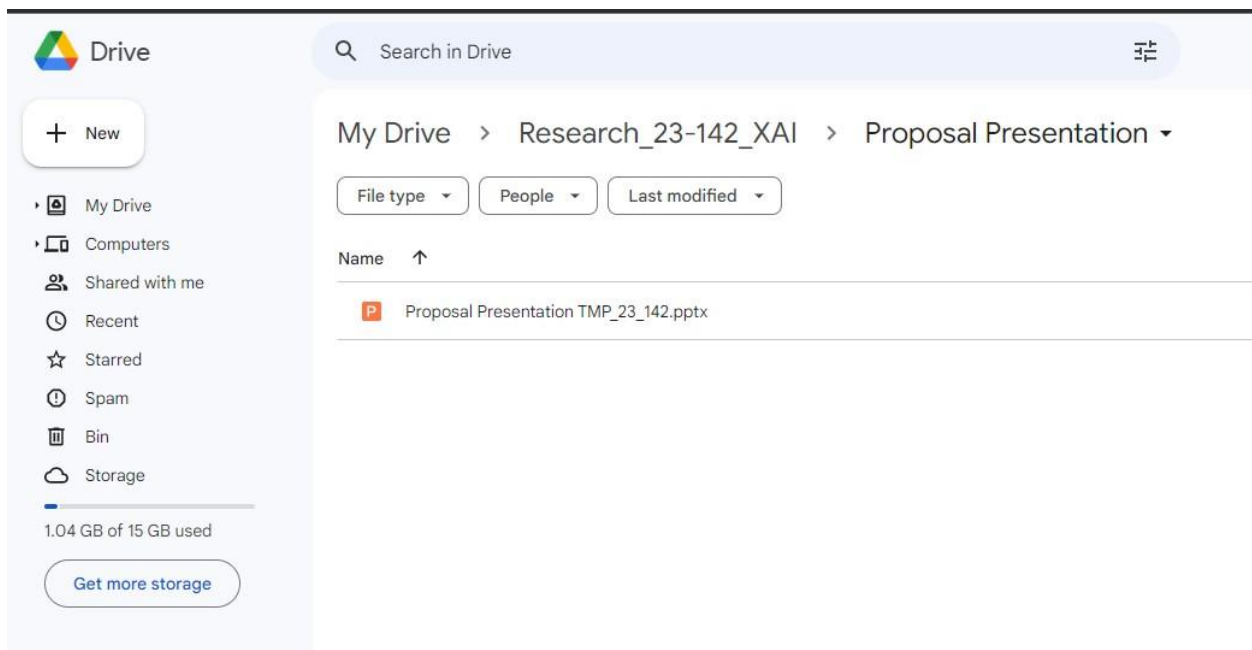


Figure 15: Proposal Presentation

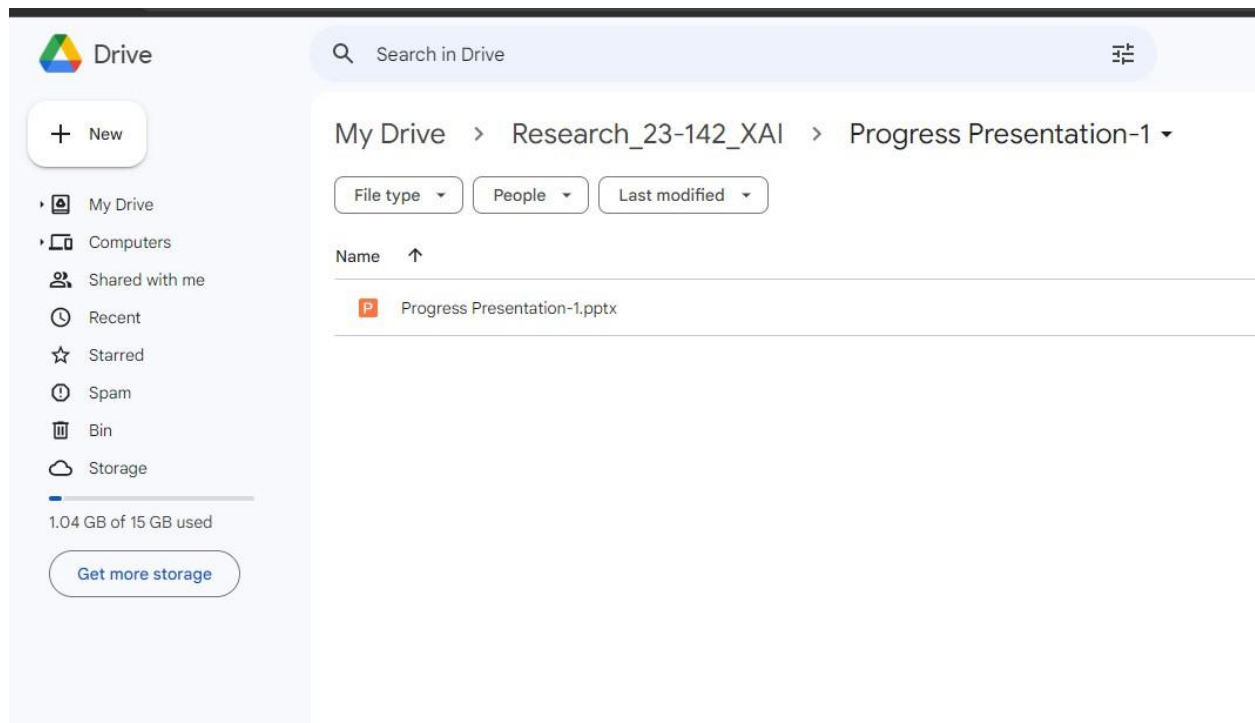


Figure 16: Progress Presentation

7. GitLab

The screenshot shows the GitLab repository overview for project 2023-142. The left sidebar contains navigation links: Project overview, Repository (selected), Files, Commits, Branches, Tags, Contributors, Graph, Compare, Issues (0), Merge Requests (0), CI / CD, Operations, Analytics, Wiki, Snippets, and Settings. The main content area displays the repository details for the 'master' branch. It includes a merge summary for 'Merge branch 'IT20097660-Sashini' into 'master'' by Sashini Devindi Wamasooriya, committed 3 hours ago. Below this is a table of files and their last commit details:

Name	Last commit	Last update
Models	SVM model development	3 hours ago
frontend	feat: navigation and routing	1 week ago
README.md	Update the README file	1 week ago

Below the table is the README content, which includes sections for 'Main objective', 'Main Research questions', and 'Individual research question'.

Figure 17: repository Overview

The screenshot shows the GitLab commits page for project 2023-142. The left sidebar is identical to the previous screenshot. The main content area displays a list of commits for the 'master' branch, filtered by commit message. The commits are grouped by date:

- 26 May, 2023 4 commits:
 - Merge branch 'IT20097660-Sashini' into 'master' by Sashini Devindi Wamasooriya (157ac1ff)
 - SVM model development by sashini00 (59f5cb41)
 - Merge branch 'IT20100698-Thilini' into 'master' by Britto T.A (ea18cc85)
 - Built Random Forest Model using IMDB dataset by thilinanjalika (ce995866)
- 19 May, 2023 5 commits:
 - Update the README file by Srinidee Methmal Munasinghe (ed365b76)
 - Update README.md by IT20013950 Lakshani N.V.M. (3d24be3a)
 - Merge branch 'IT20013950-Lakshani' into 'master' by IT20013950 Lakshani N.V.M. (72ab8477)
 - feat: navigation and routing by IT20013950 Lakshani N.V.M. (fac266eb)
 - feat: basic react project by IT20013950 Lakshani N.V.M. (d27c9bad)
- 18 May, 2023 8 commits:
 - Update README.md by IT20013950 Lakshani N.V.M. (abc8488d)
 - Update README.md by IT20013950 Lakshani N.V.M. (d3671811)

Figure 18: Commits