

INT₂X: EXPLANATION FOR THE CAUSES OF A PREDICTION

23-142

Project Status Document I

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May 2023

Table of Contents

List of Figures.....	3
1. Work Breakdown Structure.....	4
2. Gantt Chart	5
3. Discussion Meetings	6
4. Emails.....	8
5. Microsoft Planner	9
5.1 Microsoft Planner Board.....	9
5.2 Completed and In-Progress Tasks.....	9
5.3 Charts	10
5.4 Team Planner Schedule	10
6. Documentation Work	11
7. GitLab	13

List of Figures

Figure 1: Work Breakdown Structure	4
Figure 2: Gantt Chart	5
Figure 3: Topic Finalized Meeting	6
Figure 4: Research Problems Discussion Meeting	6
Figure 5: Proposal Presentation Discussion Meeting	7
Figure 6: Proposal Report Discussion Meeting	7
Figure 7: Progress Presentation Discussion Meeting	8
Figure 8: Emails	8
Figure 9: Planner Board	9
Figure 10: Tasks Completed and In-Progress	9
Figure 11: charts	10
Figure 12: Team Planner Schedule	11
Figure 11: Folders	12
Figure 12: Proposal Presentation	12
Figure 13: Progress Presentation-1	13
Figure 14: GitLab Repository	14
Figure 15: Commits	15

1. Work Breakdown Structure

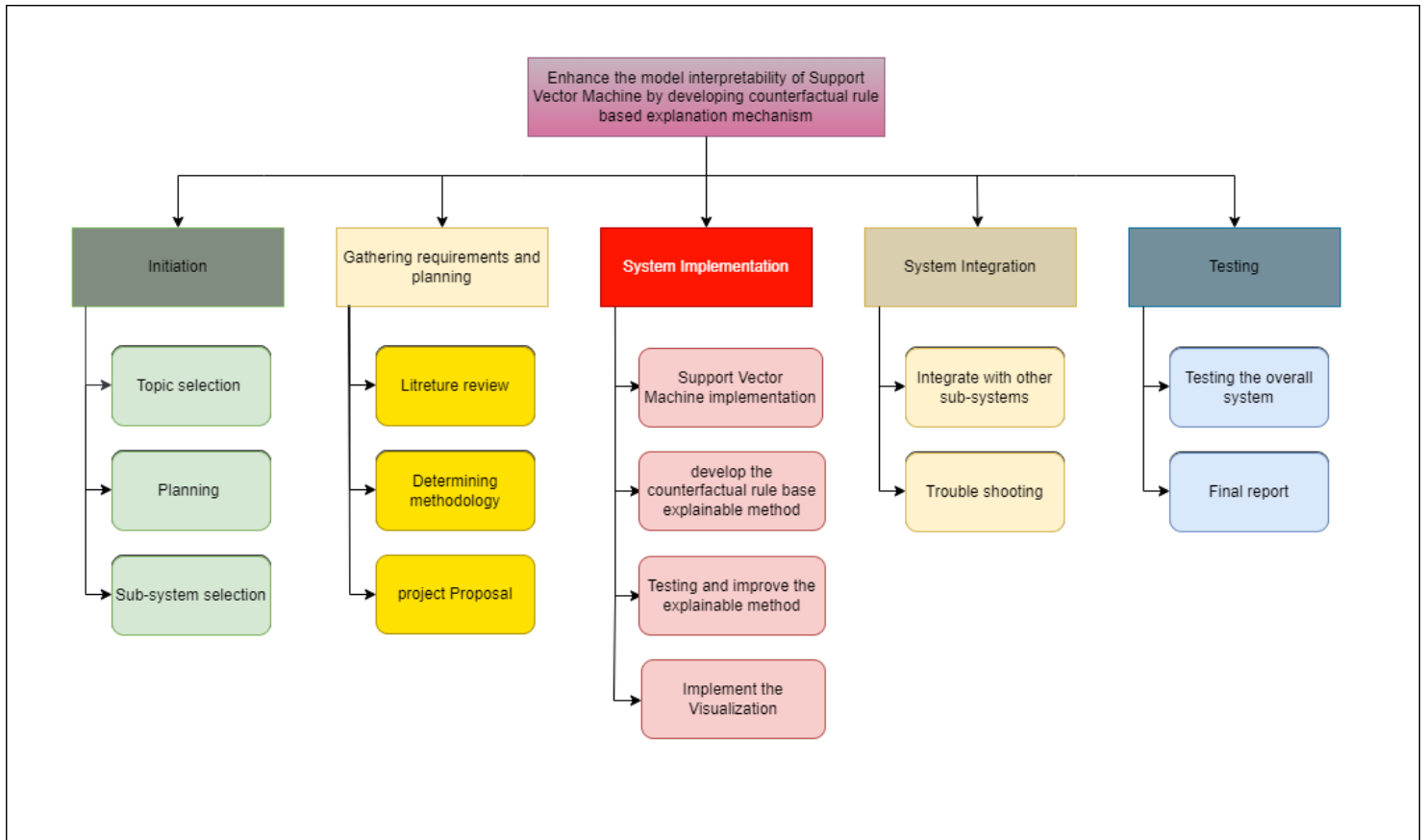


Figure 1: Work Breakdown Structure

2. Gantt Chart

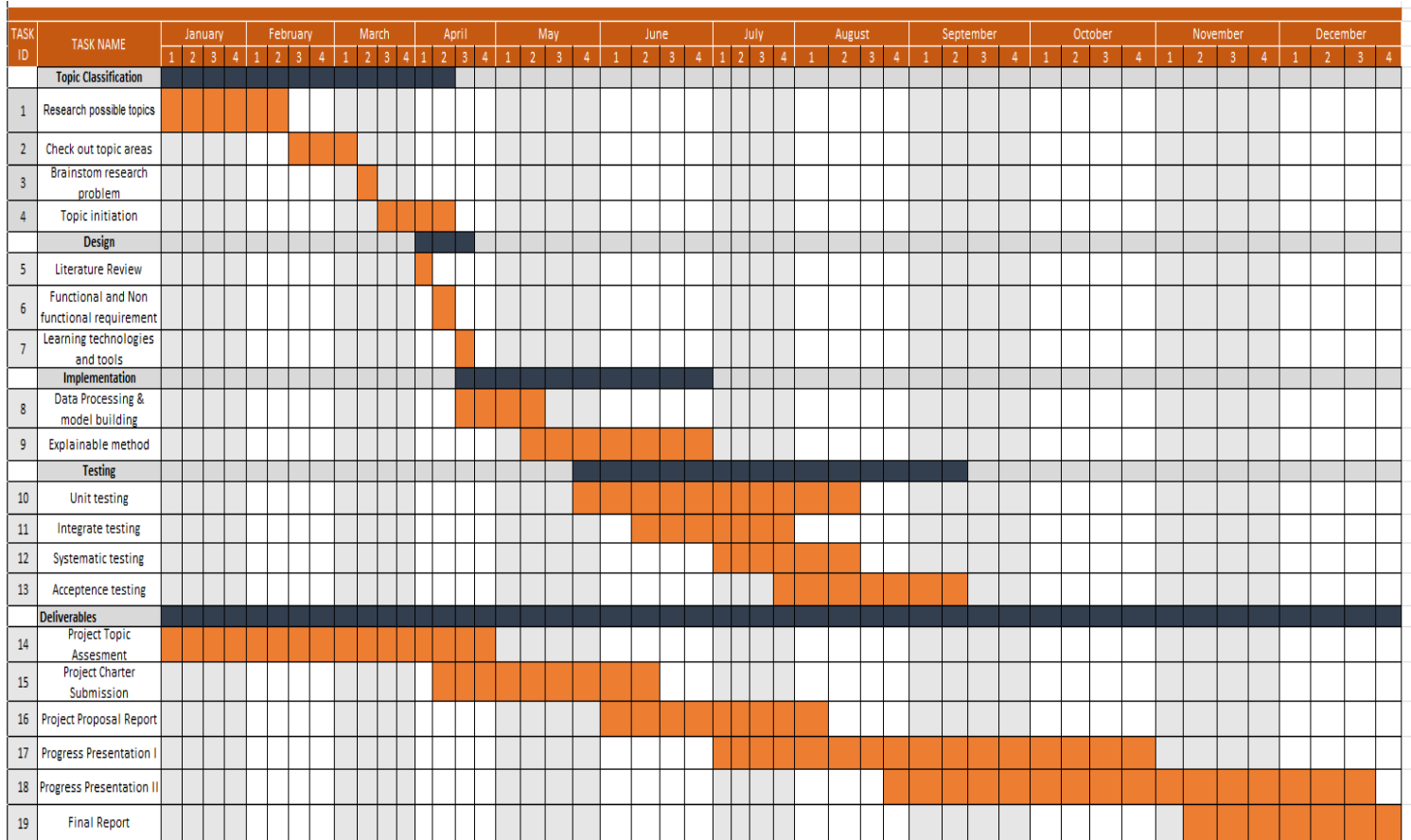


Figure 2: Gantt Chart

3. Discussion Meetings

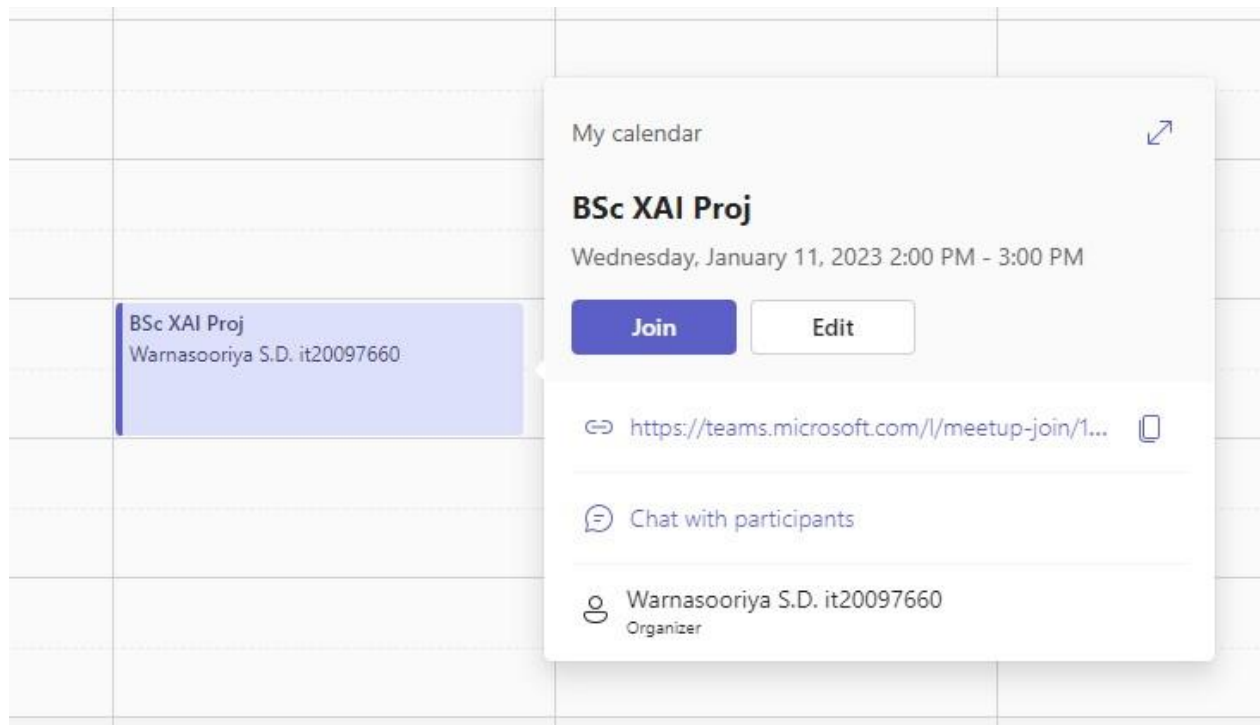


Figure 3: Topic Finalized Meeting

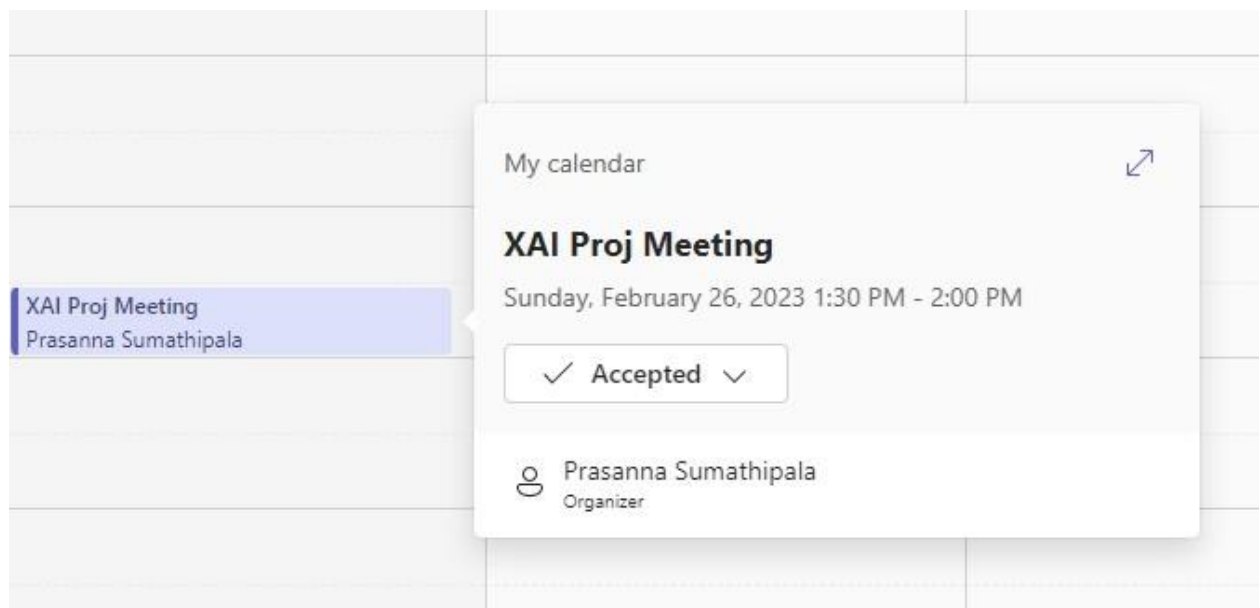


Figure 4: Research Problems Discussion Meeting

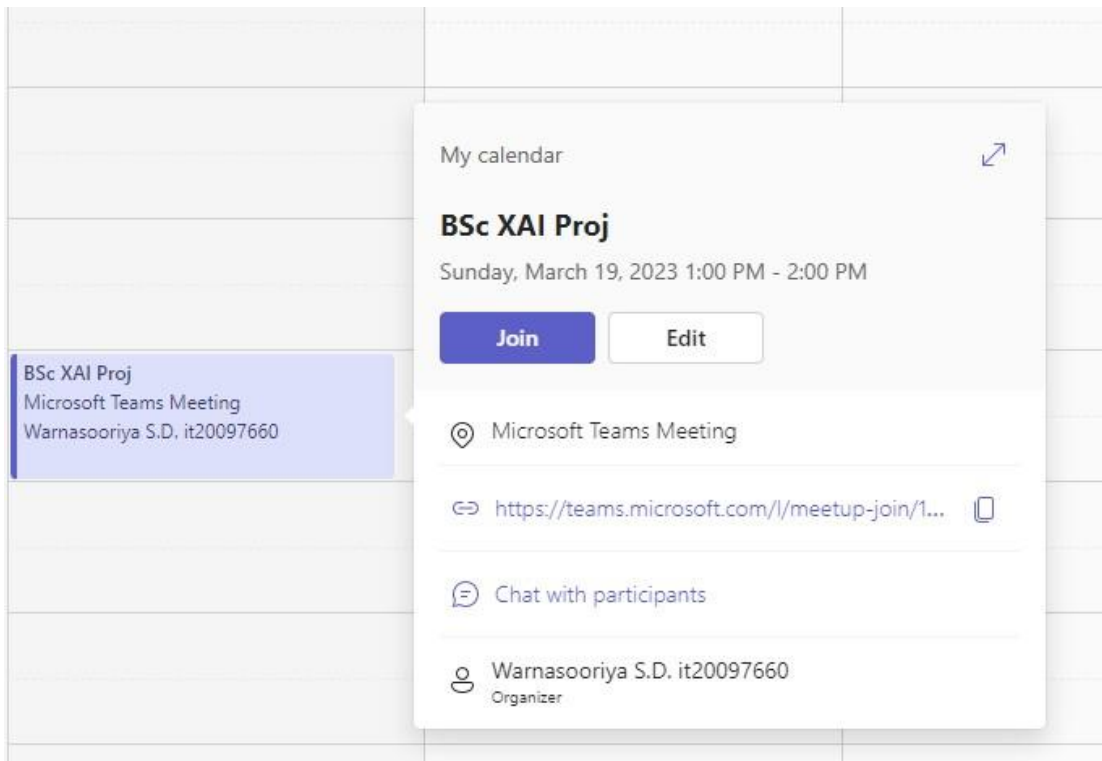


Figure 5: Proposal Presentation Discussion Meeting

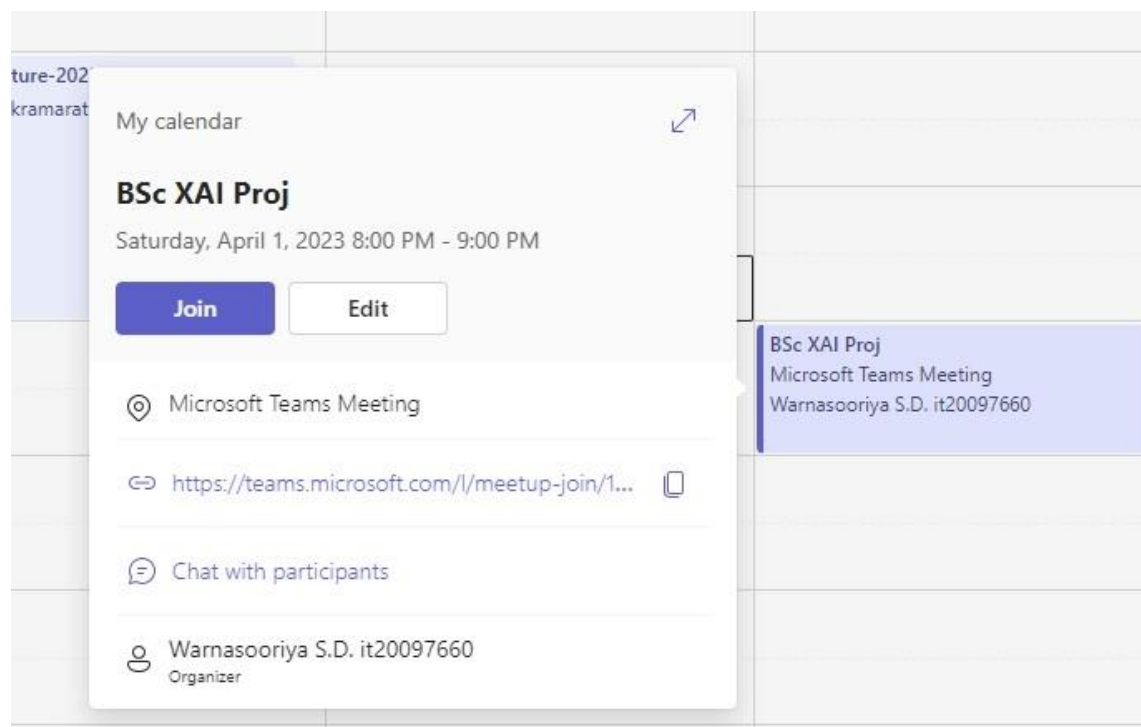


Figure 6: Proposal Report Discussion Meeting

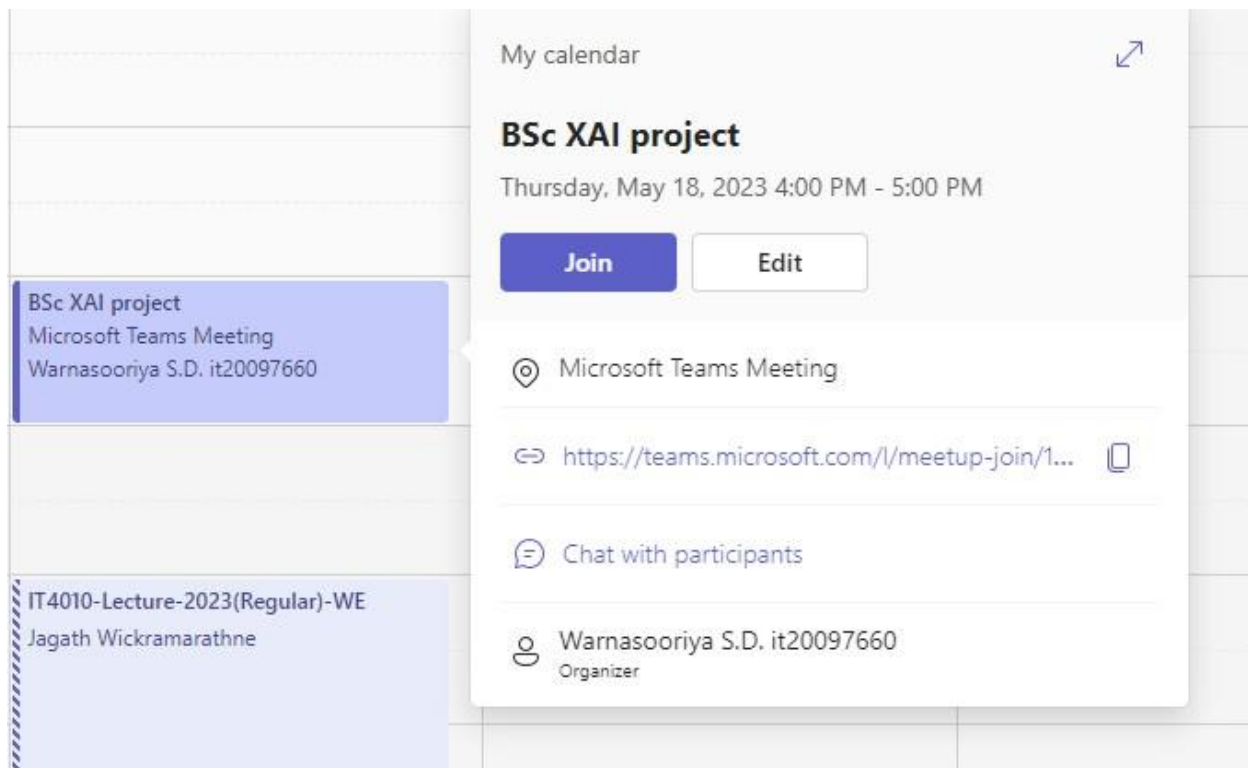


Figure 7: Progress Presentation Discussion Meeting

4. Emails

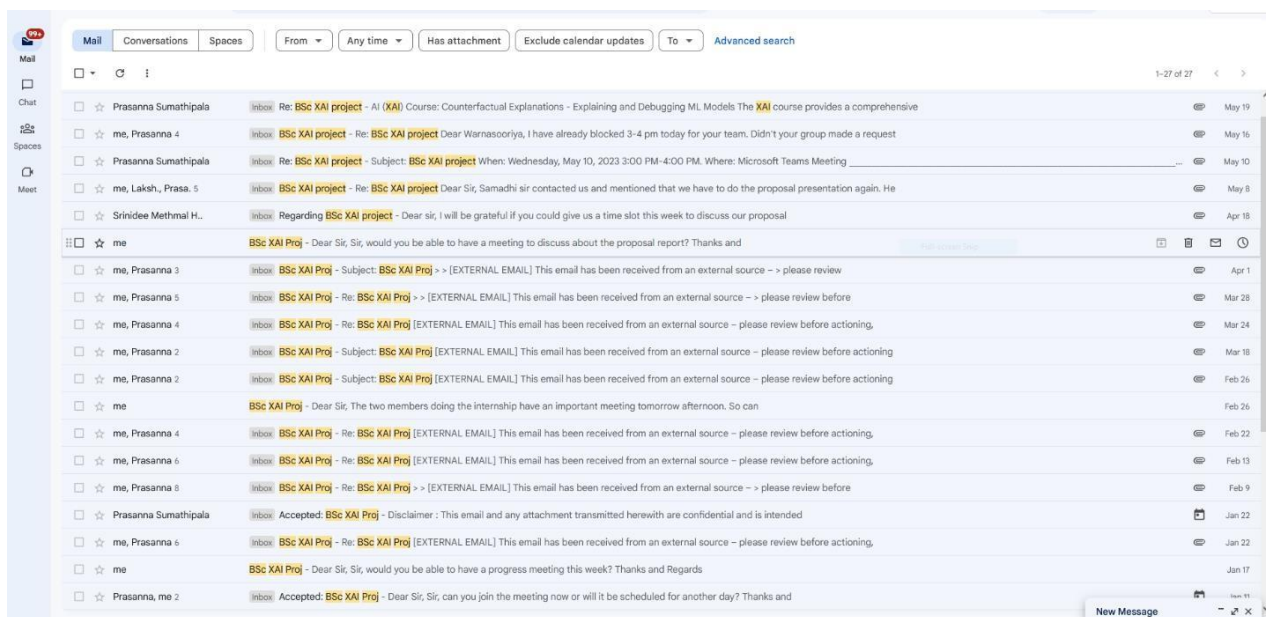


Figure 8: Emails

5. Microsoft Planner

5.1 Microsoft Planner Board

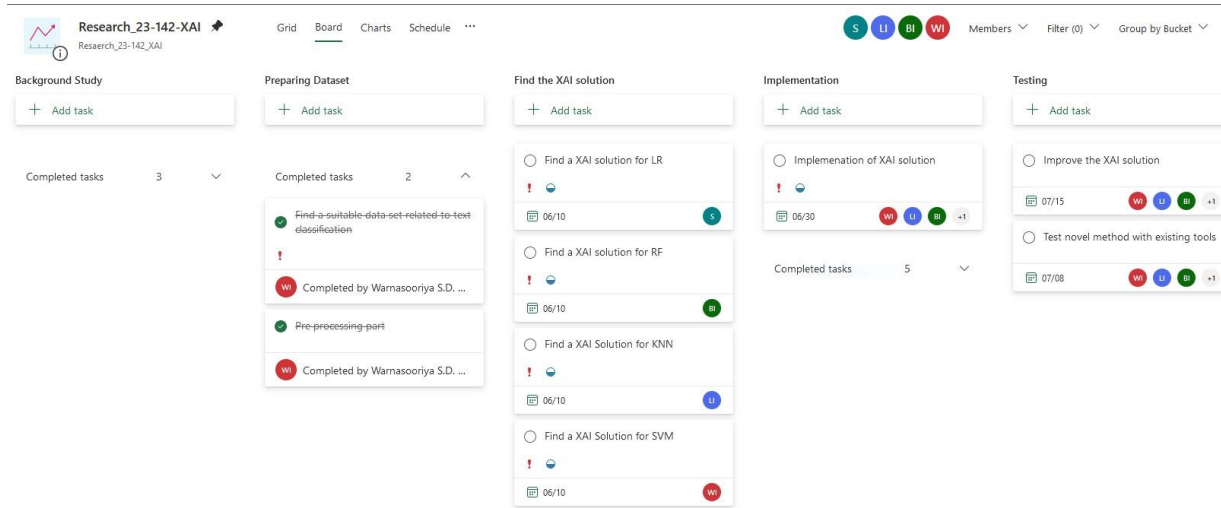


Figure 9: Planner Board

5.2 Completed and In-Progress Tasks

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

Figure 10: Tasks Completed and In-Progress

5.3 Charts

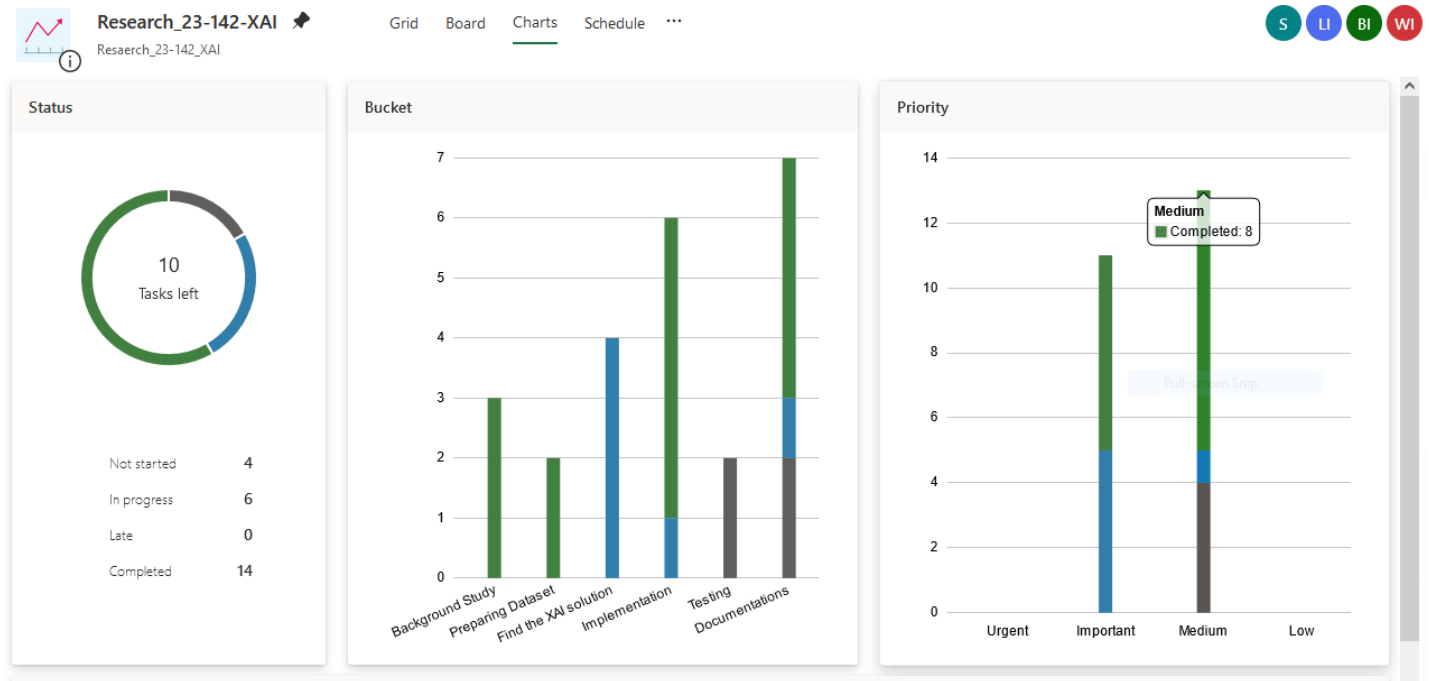


Figure11: charts

5.4 Team Planner Schedule

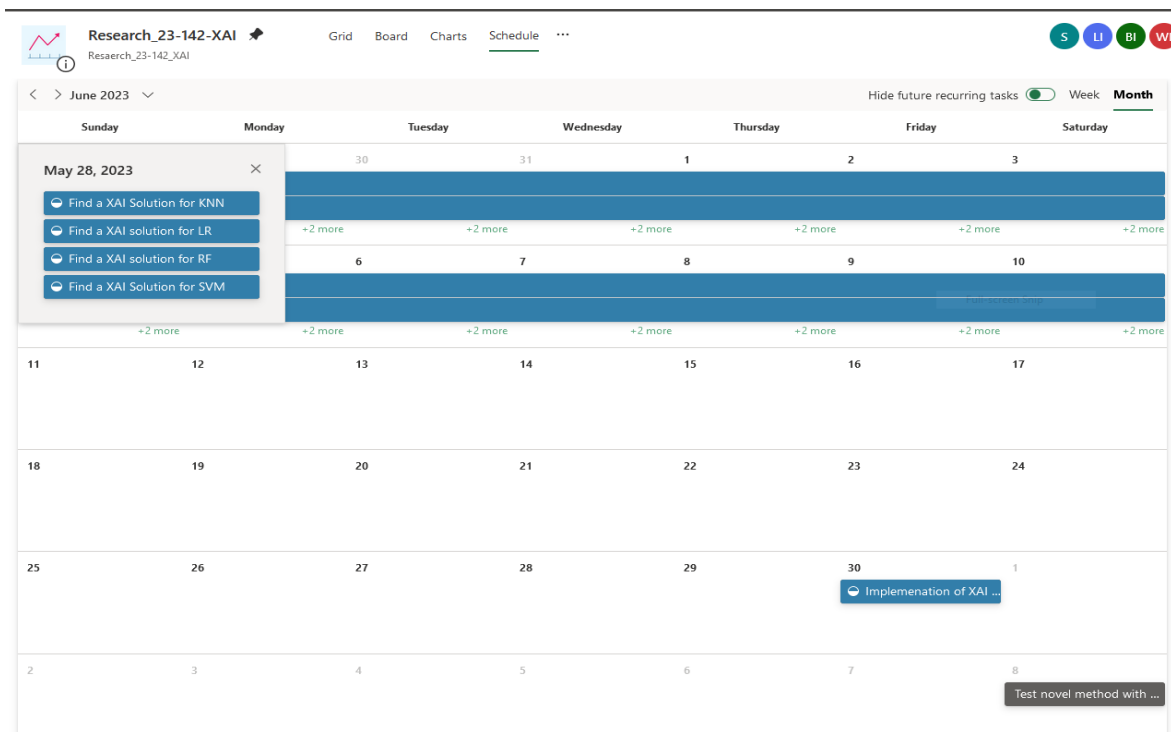


Figure 12: Team Planner Schedule

6. Documentation Work

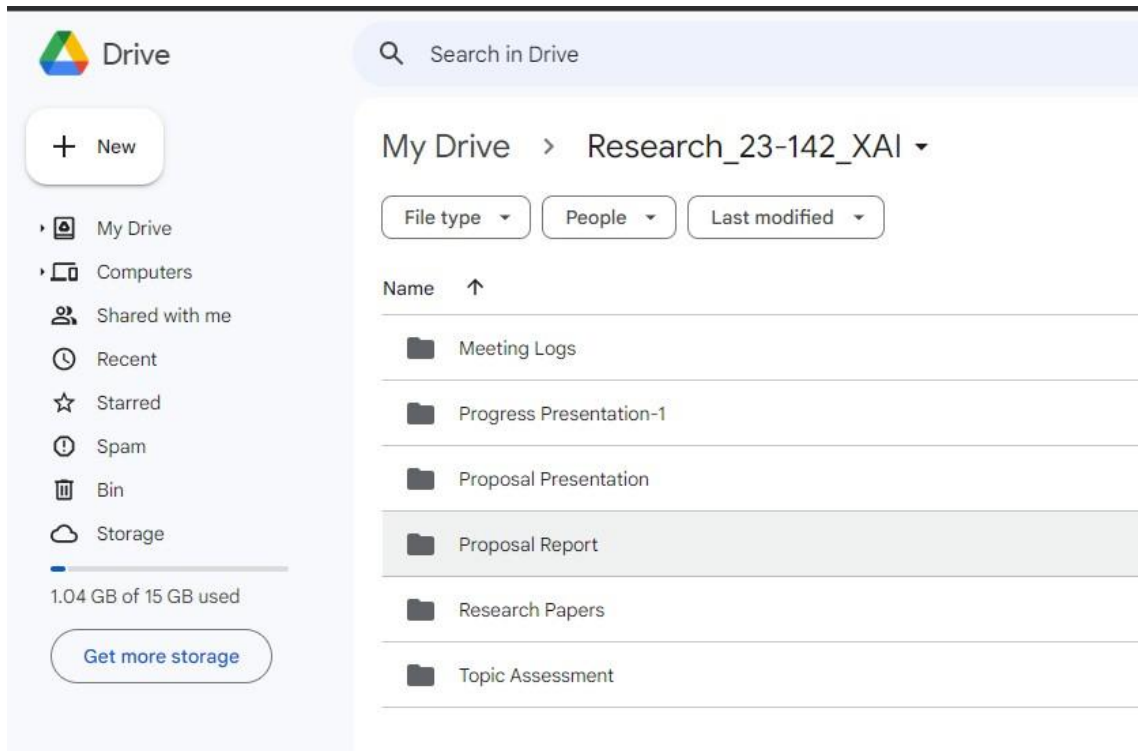


Figure 13: Folders

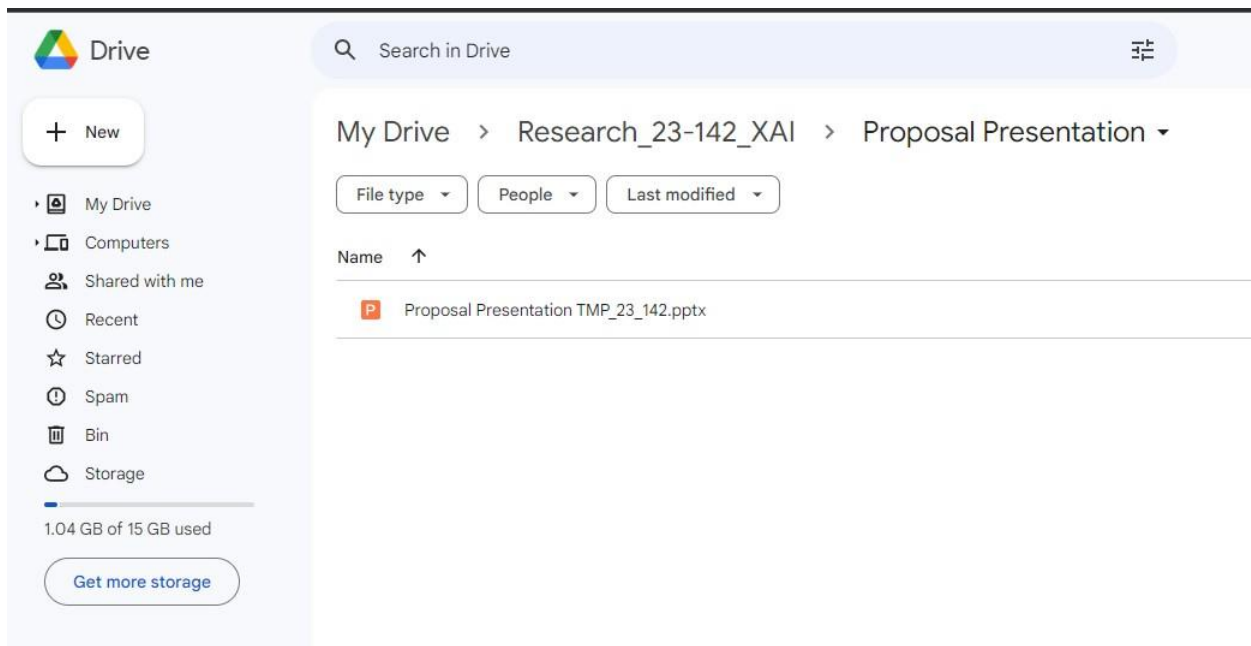


Figure 14: Proposal Presentation

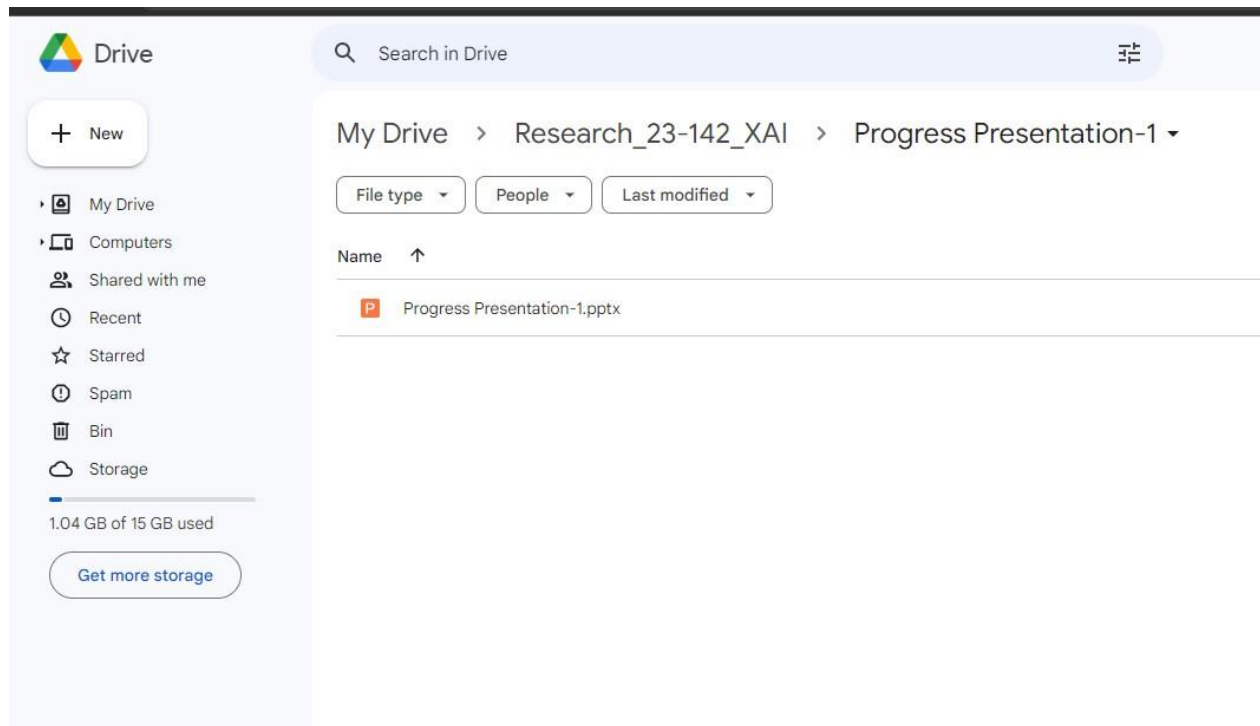


Figure 15: Progress Presentation-1

7. GitLab

The screenshot displays the GitLab web interface for a repository named '2023-142'. The top navigation bar includes the GitLab logo, project navigation links (Projects, Groups, More), and a search bar. The left sidebar contains a list of navigation options: Project overview, Repository (selected), Files, Commits, Branches, Tags, Contributors, Graph, Compare, Issues (0), Merge Requests (0), CI / CD, Operations, Analytics, and Collapse sidebar. The main content area shows the repository details for '2023-142' on the 'master' branch. It includes a commit history table and a preview of the README.md file.

Name	Last commit	Last update
Models	Logistic regression model development using IMDB data set.	8 hours ago
frontend	feat: navigation and routing	1 week ago
README.md	Update the README file	1 week ago

README.md

2023-142

Main objective

Provide a novel post-hoc, model-specific, local XAI solution to enhance the model interpretability of Black-Box models focus on Random Forest, Support Vector Machine, K Nearest Neighbor and Logistic Regression by developing a novel counterfactual rule generation mechanism related to the text classification domain.

Main Research questions

Figure 16: GitLab Repository

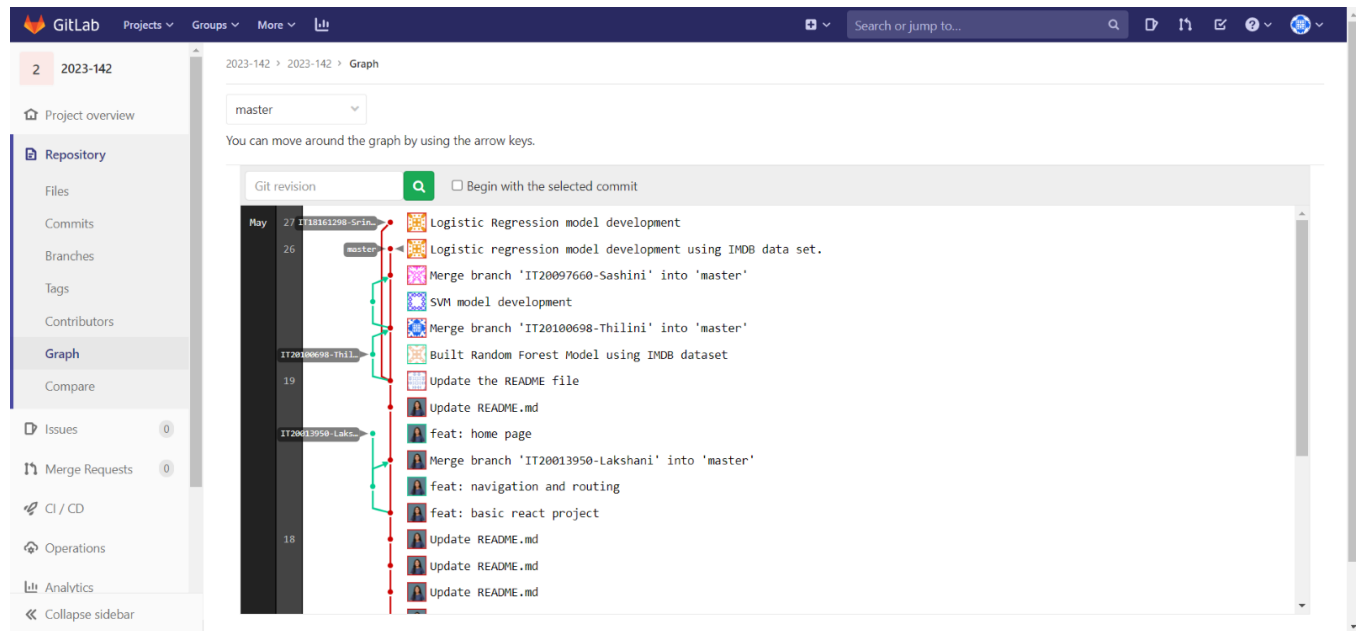


Figure 17: Commits

8. Documentation progress

- Completed
 - ✓ Topic assessment form
 - ✓ Project charter
 - ✓ Project proposal
 - ✓ Proposal presentation
 - ✓ Status document I
- To be completed
 - Status document II
 - Research paper
 - Final report
 - Thesis document