

**Detection of Energy Consumption and Performance of Third-party
Applications using Machine Learning and Artificial Intelligence**

22_23-J 87

Status Document 1

Research Project - IT4010 (2022/23 June)

Thiranya M.A.R. - IT19129440

B.Sc. (Hons) Degree in Information Technology

Department of Information Technology

Sri Lanka Institute of Information Technology

Sri Lanka

June 2022

PROJECT SUPERVISOR DETAILS:

Supervisor	Co-Supervisor
Ms. Sanjeevi Chandrasiri	Ms. Maduka Nadeeshani

PROJECT MEMBER DETAILS:

Name	Registration Number
Thiranya M.A.R.	IT19129440

GitLab Registration

- Repository Creation

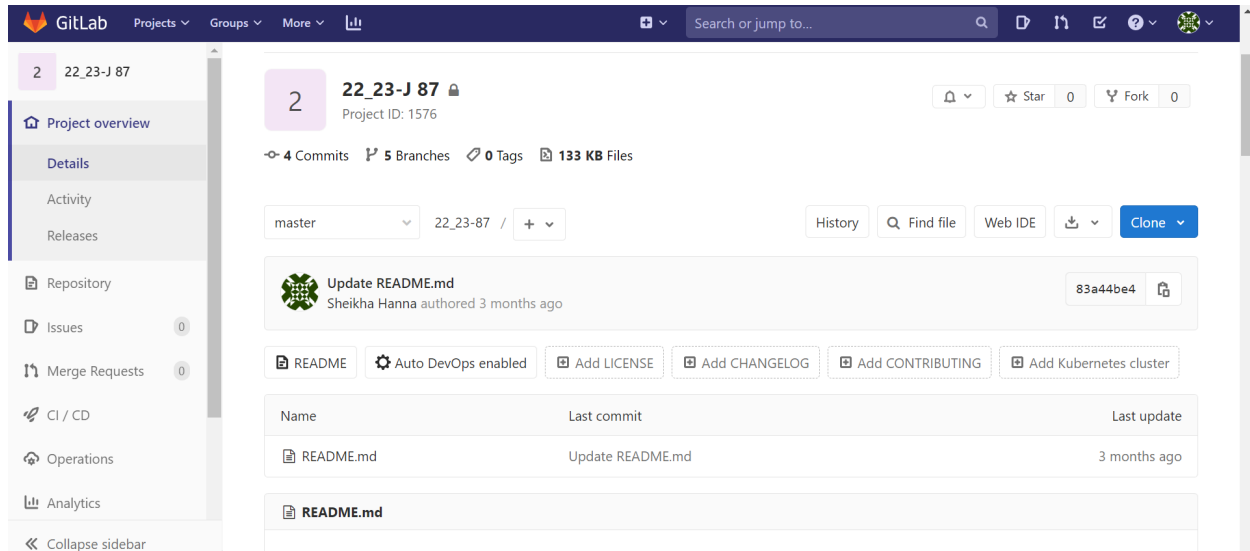


Figure 1: Repository Creation

- Members

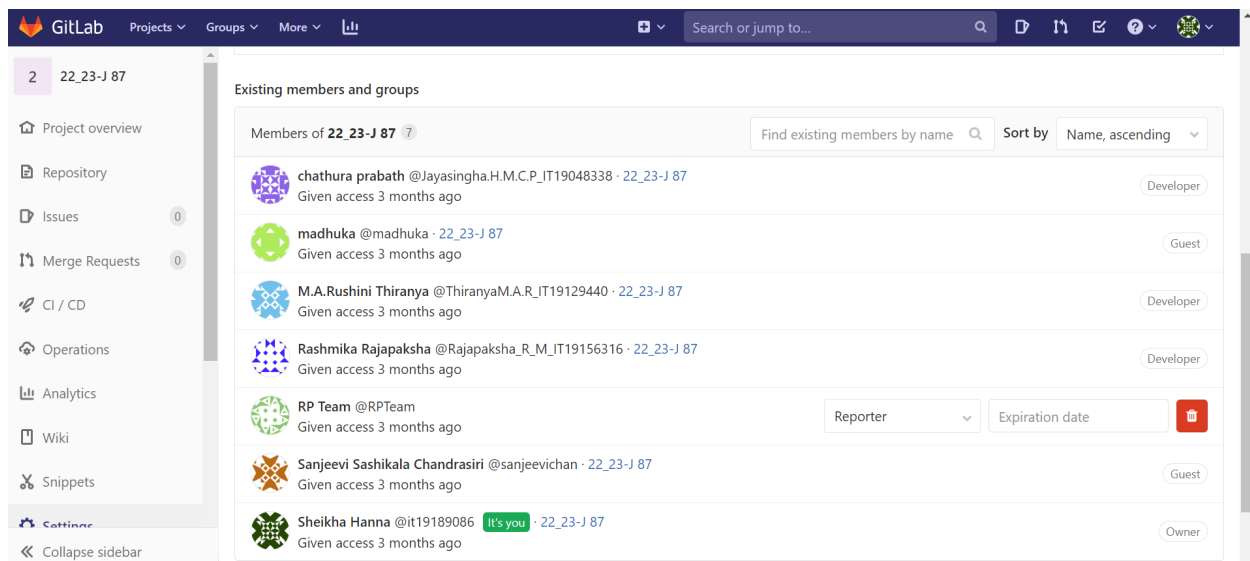


Figure 2: Repository Members

- Branches

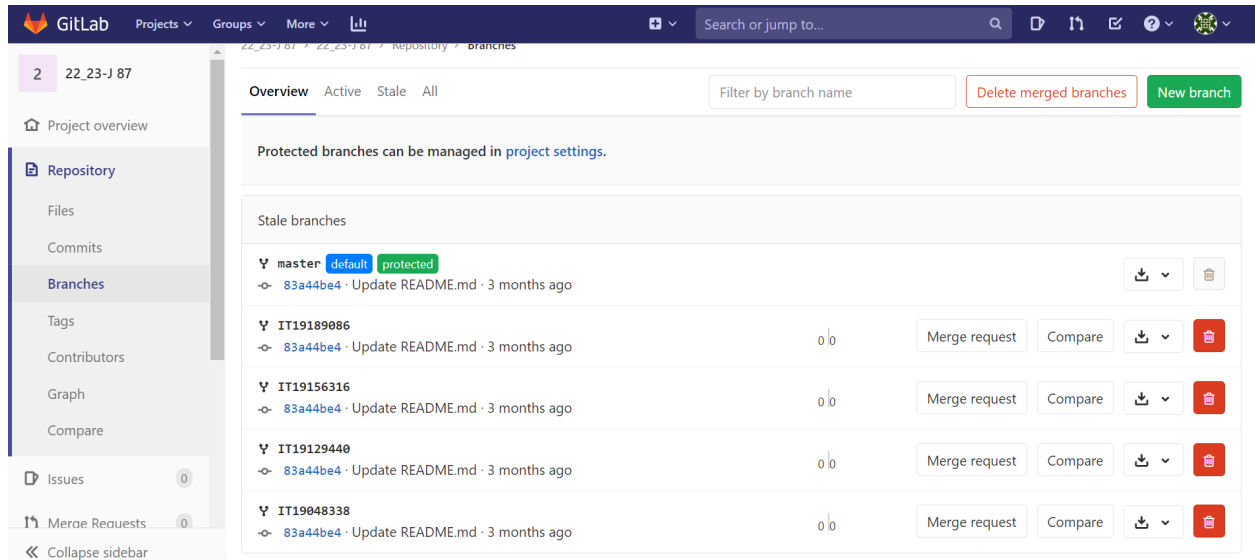


Figure 3: Repository Branches

- README.txt

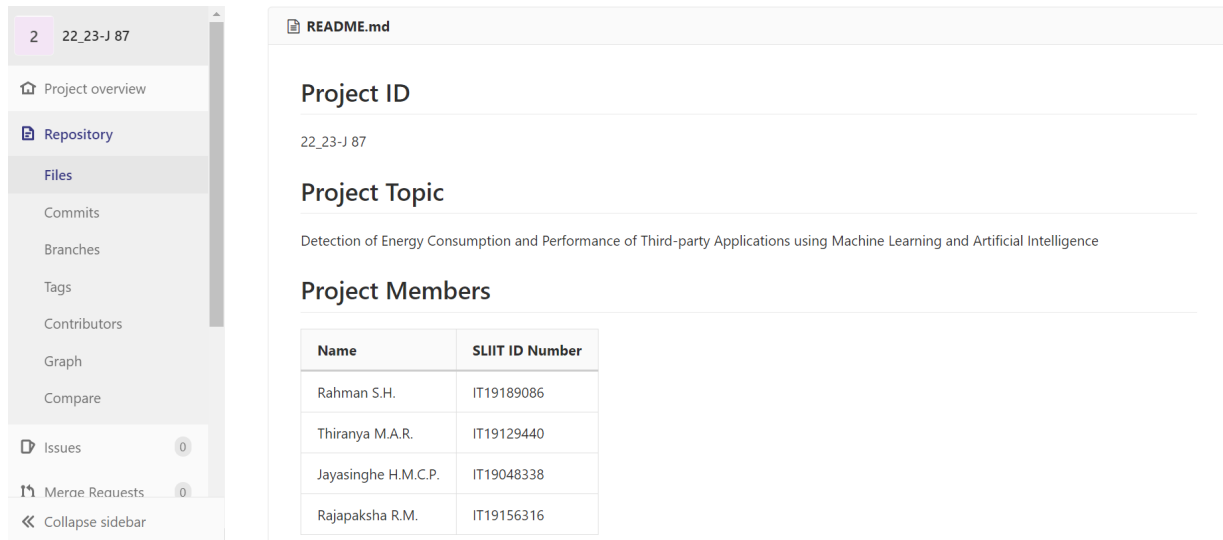


Figure 4: Repository README file

MS Teams

- Teams Meetings and Chats

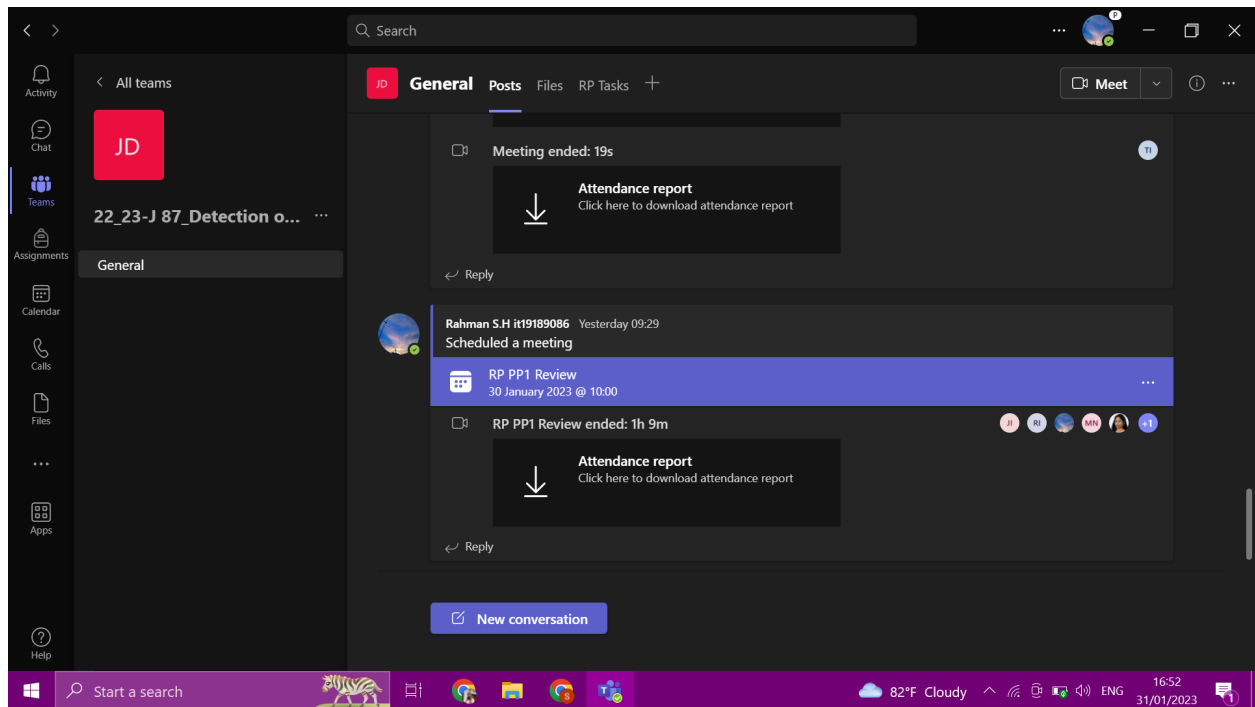


Figure 5: Teams Channel

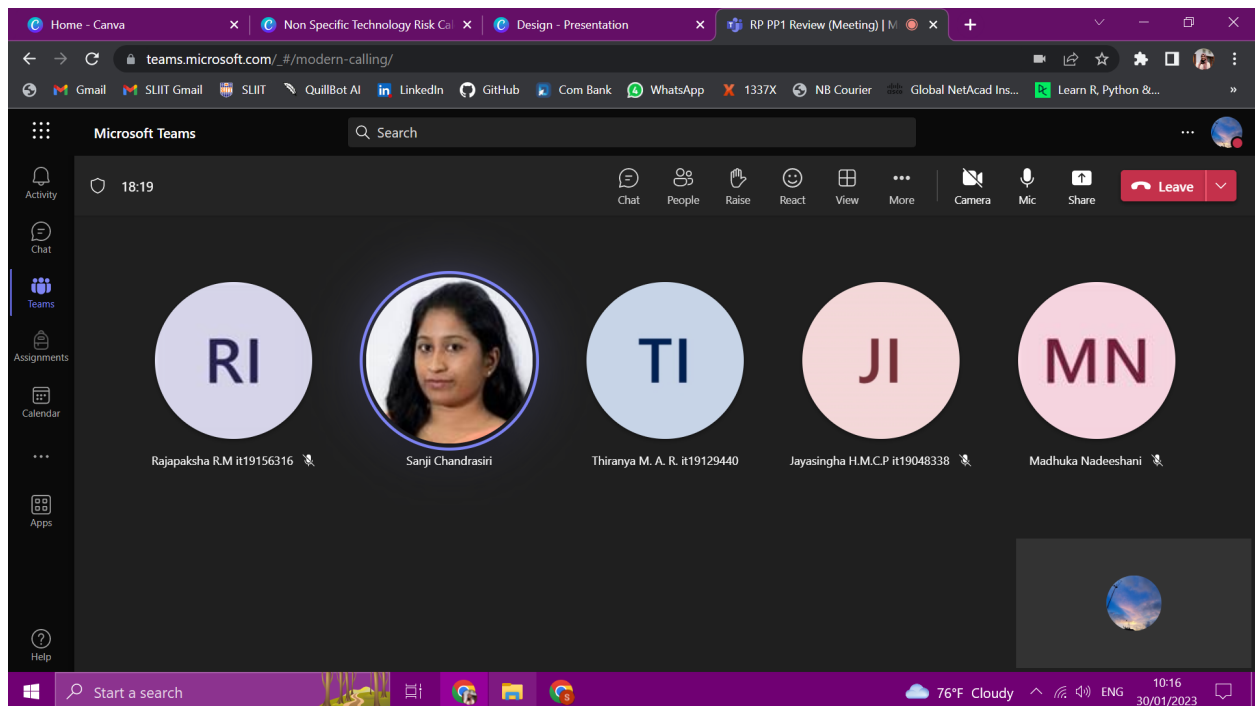


Figure 6: Progress Presentation 1 (PP1) Review and Feedback

The screenshot shows a Microsoft Teams meeting interface. The main window displays a Jupyter Notebook titled 'processedData'. The notebook contains the following code and output:

```

In [32]: csv_path_apps = "mobile_dataset.csv"
         csv_path_reviews = "googleplaystore_user_reviews.csv"
         app_df = pd.read_csv(csv_path_apps)
         reviews_df = pd.read_csv(csv_path_reviews)

Displaying the top 5 records in the app dataset.

In [33]: app_df.head()
Out[33]:
   App                                     Category  Rating  Reviews  Size  Installs  Type  Price  Content Rating  Genres  Last Updated  Current Ver  Android Ver  Ram Usage
0  Photo Editor & Candy Camera & Glitter & Scrapbook  ART_AND_DESIGN  4.1      159    19   10,000+  Free    0     Everyone    Art & Design  January 7, 2018  1.0.0    4.0.3 and up  2299.0
1  Coloring book - murika                            ART_AND_DESIGN  3.9     967   14   500,000+  Free    0     Everyone    Art & Design, Puzzle  January 15, 2018  2.0.0    4.0.3 and up  1094.0
2  UI Launcher Lite - FREE Live Grid Themes, Wallp...  ART_AND_DESIGN  4.7    67510  8.7  5,000,000+  Free    0     Everyone    Art & Design  August 1, 2018  1.2.4    4.0.3 and up  1052.7
3  Sketch - Draw & Paint                             ART_AND_DESIGN  4.5   219844  25   90,000,000+  Free    0     Teen      Art & Design  June 8, 2018  4.2 and up  3025.0
4  Pixel Draw - Drawing Art                            ART_AND_DESIGN  4.3     967   2.8   100,000+  Free    0     Everyone    Design, Creativity  June 20, 2018  1.1    4.4 and up  338.8

Displaying the top 5 records in the reviews dataset.

In [34]: reviews_df.head()

```

The table displays app details including App Name, Category, Rating, Reviews, Size, Installs, Type, Price, Content Rating, Genres, Last Updated, Current Ver, Android Ver, and Ram Usage. The first row shows 'Photo Editor & Candy Camera & Glitter & Scrapbook' with a rating of 4.1 and 159 reviews.

Figure 7: Progress Presentation 1 (PP1) Review and Feedback

The screenshot shows a Microsoft Teams meeting interface. The main window displays a Visual Studio Code editor with the following code:

```

1 var x = 5;
2 var y = 10;
3 const c = 6;
4 c = 7;
5
6 it('save file in object with escaped characters in filename', async () => {
7   const file = new Parse.File('hello . txt', data, 'text/plain');
8   ok(file.url());
9   const result = await file.save();
10  //result = 7;
11  strictEqual(result, file);
12  ok(file.name());
13  ok(file.url());
14  notEqual(file.name(), 'hello . txt');
15
16  const object = new Parse.Object('TestObject');
17  await object.save({ file });
18  const objectAgain = await new Parse.Query('TestObject').get(object.id);
19  ok(objectAgain.get('file') instanceof Parse.File);
20
21  "use strict";
22  var ebccssvy_surveyDesigner = window.ebccssvy_surveyDesigner || {};
23
24  (function () {
25    var nameDisplayLength = 120; //43//23
26

```

The code includes a 'Login UI' section with a 'Sign In' button and a 'Survey Designer' section with a 'Read Native' button. The code also includes a warning message: '[Warning] Could not find workspace while activating'.

Figure 8: Progress Presentation 1 (PP1) Review and Feedback

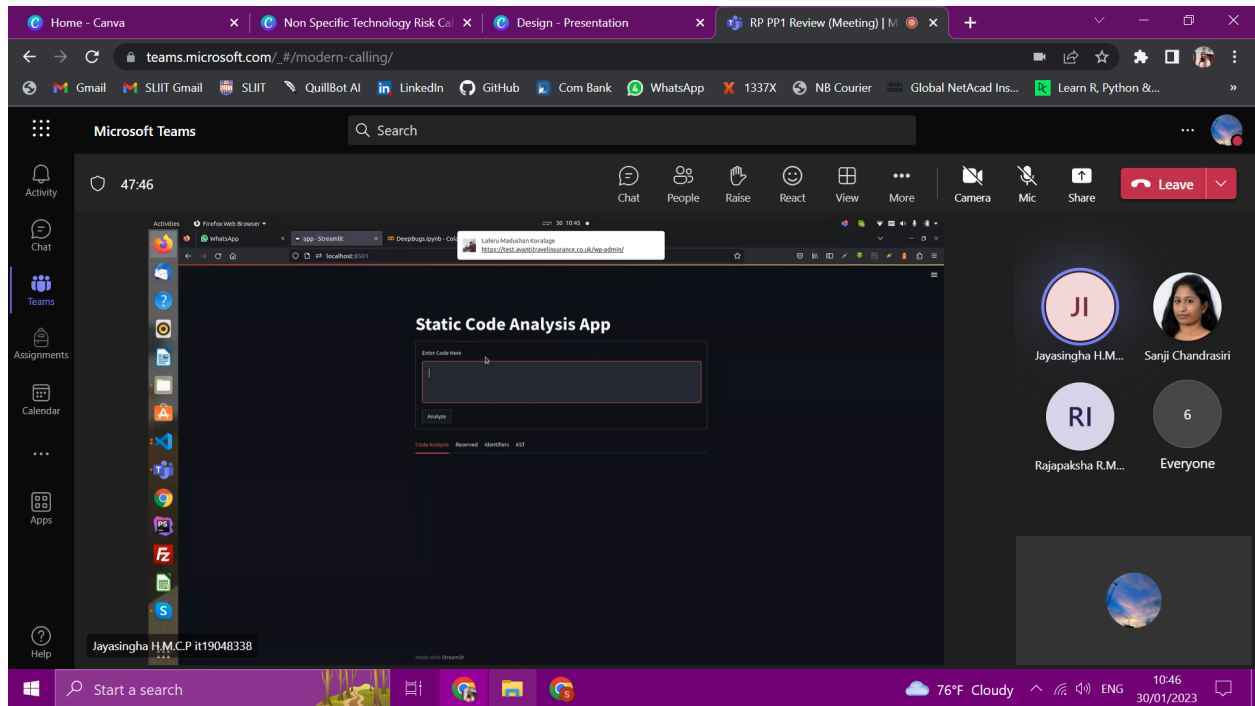


Figure 9: Progress Presentation 1 (PP1) Review and Feedback

- Calendar

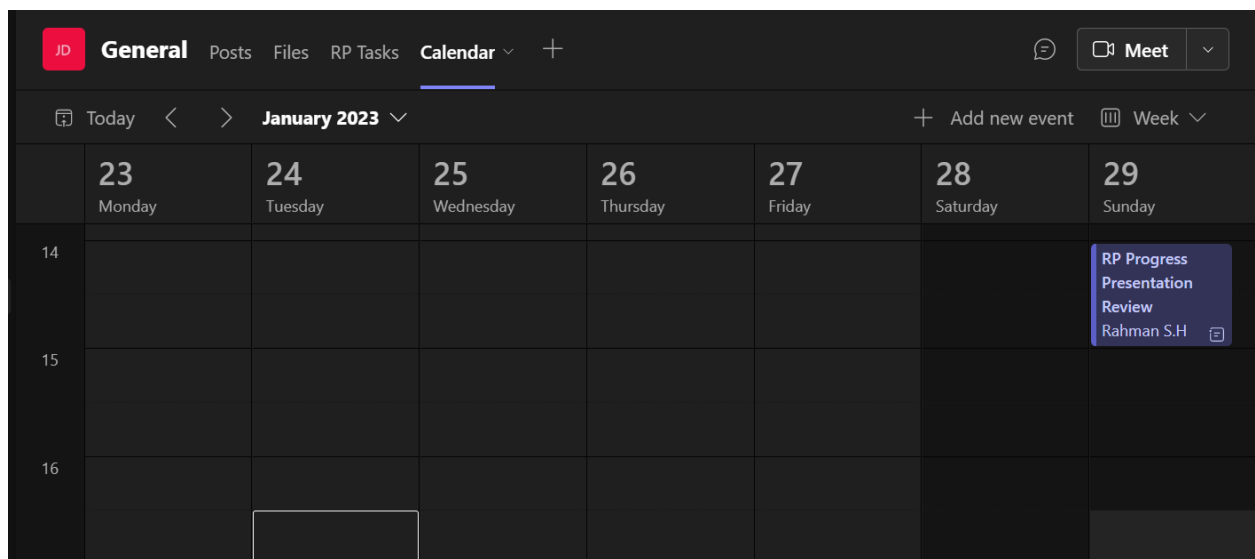


Figure 10: Channel Calendar Events

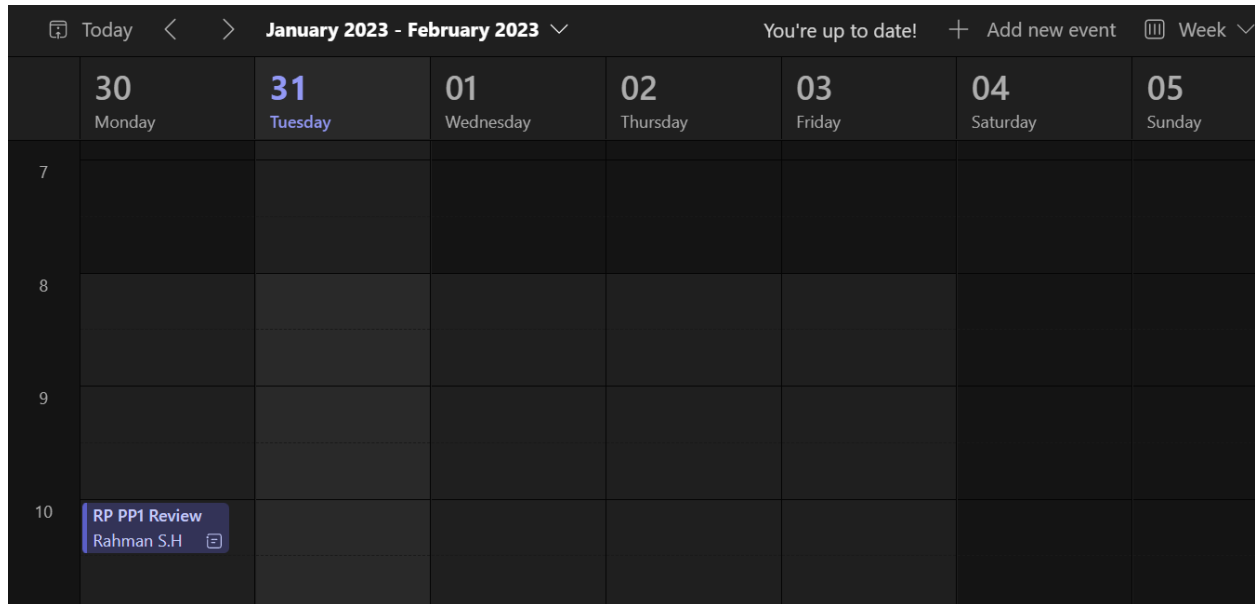


Figure 11: Channel Calendar Events

- **Board Planner**

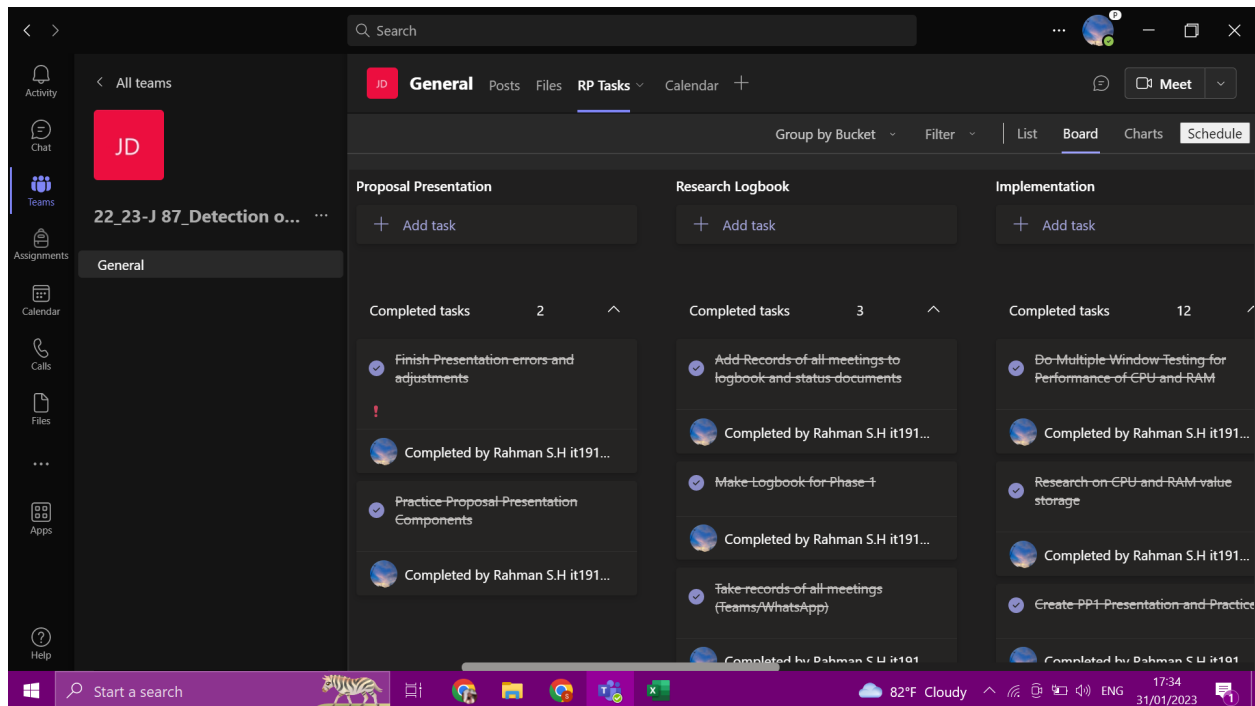


Figure 12: Channel Tasks Board

- **Planner Charts**

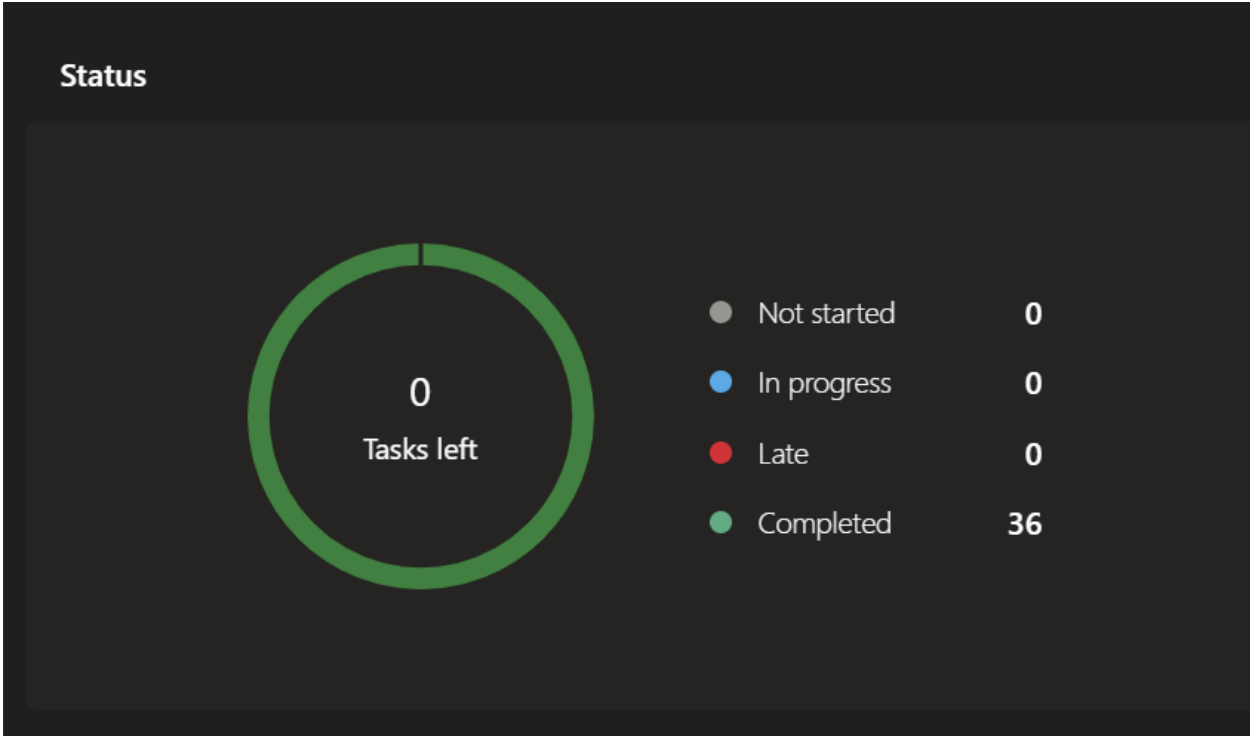


Figure 13: Channel Tasks Status

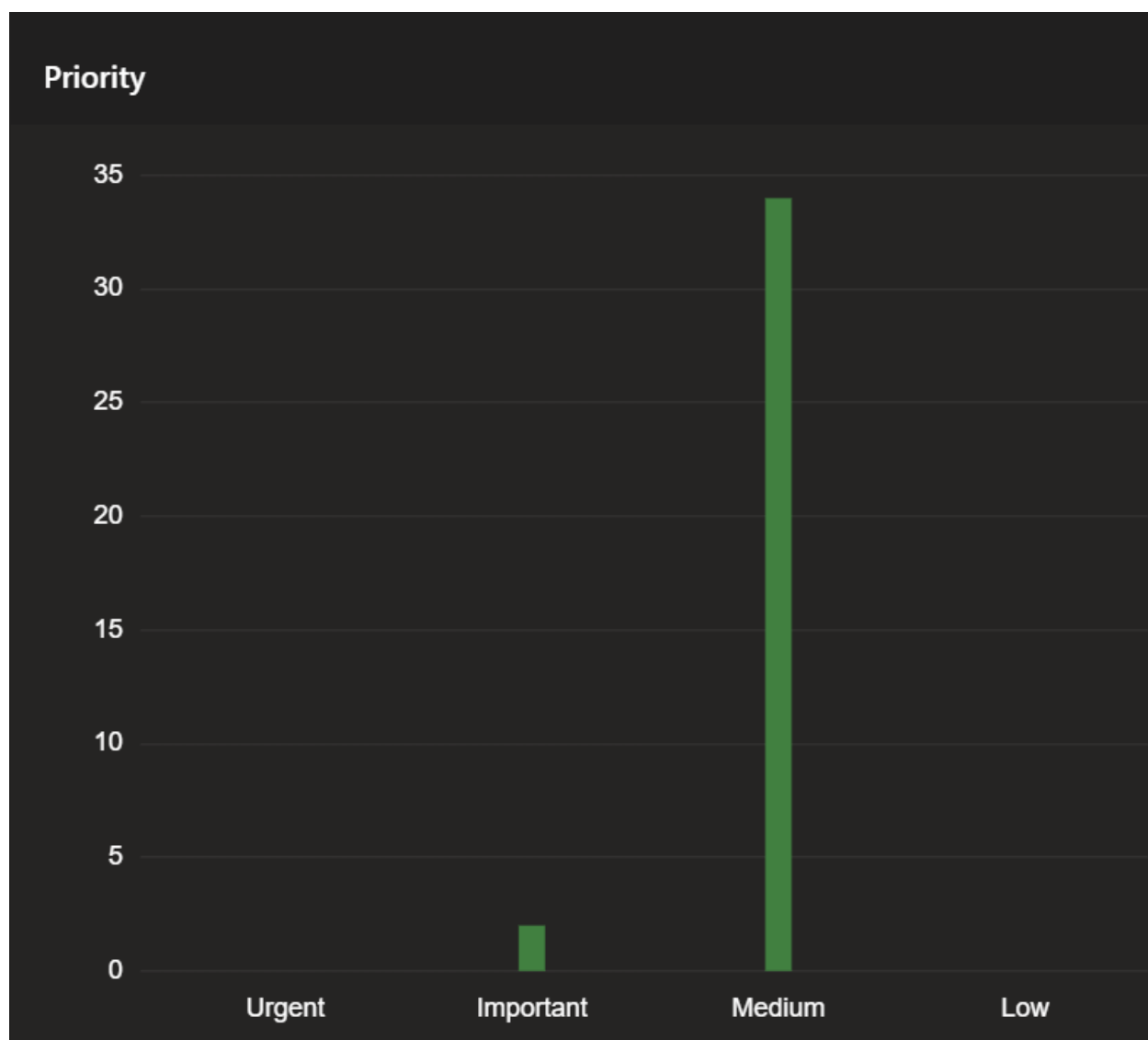


Figure 14: Channel Tasks Priority

WhatsApp

- Meetings

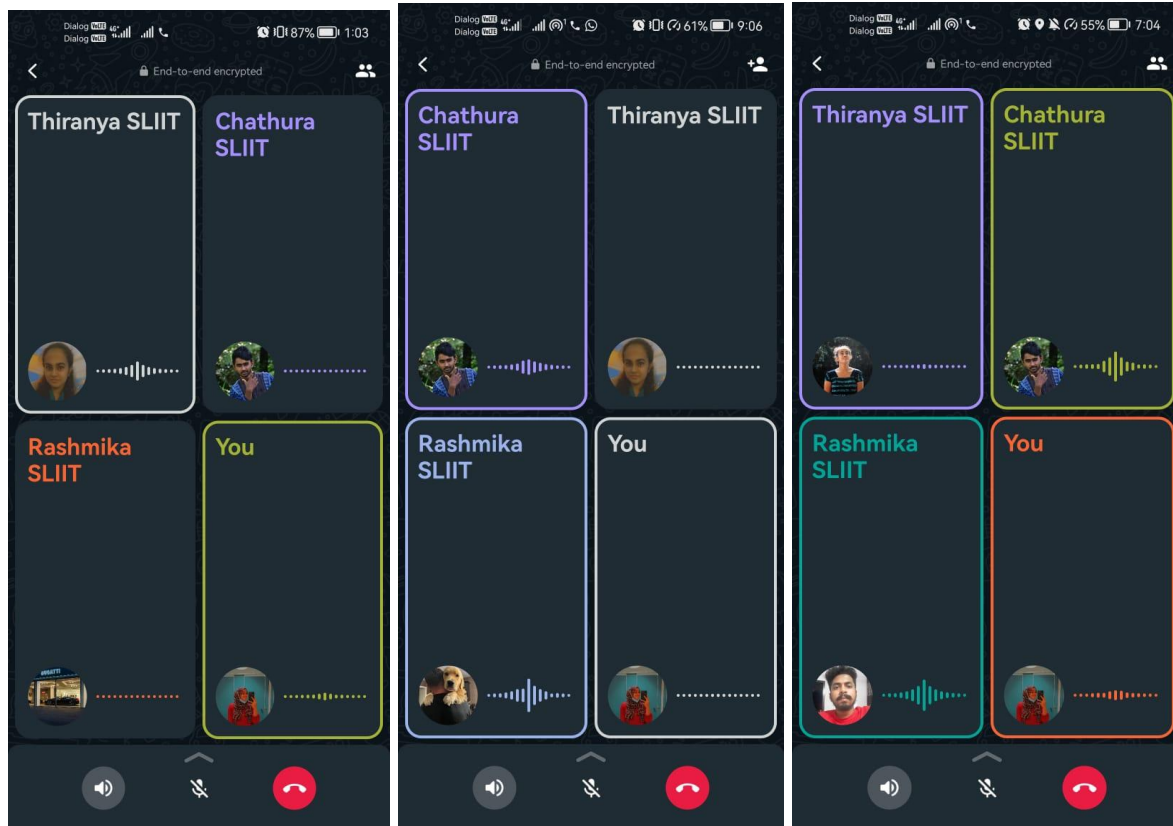


Figure 15: WhatsApp Meetings

Google Meet

- Meetings

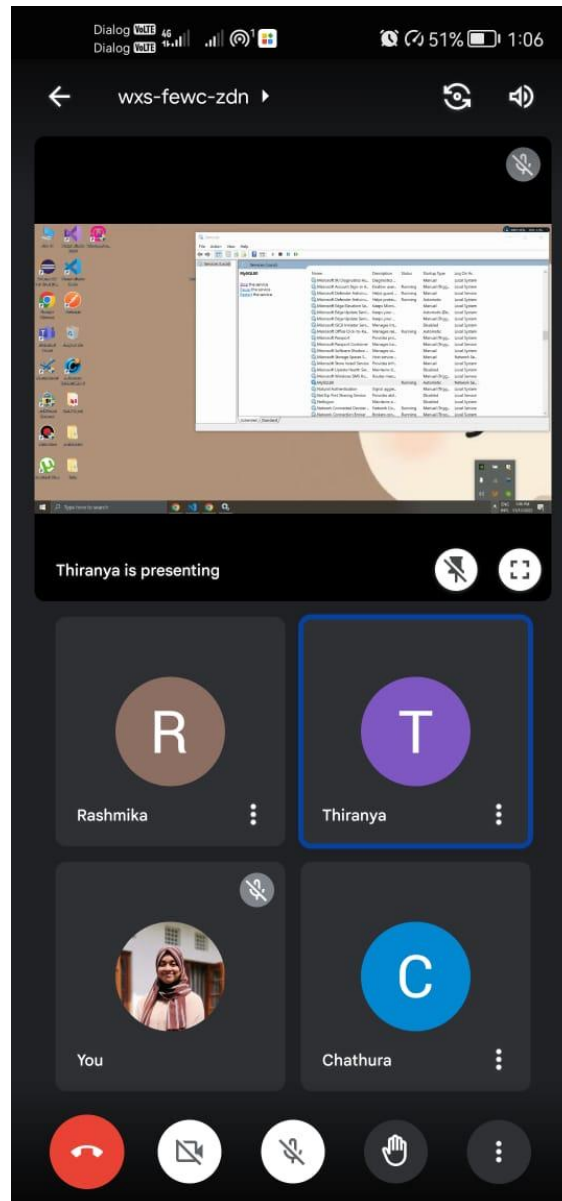


Figure 16: Google Meet Meeting

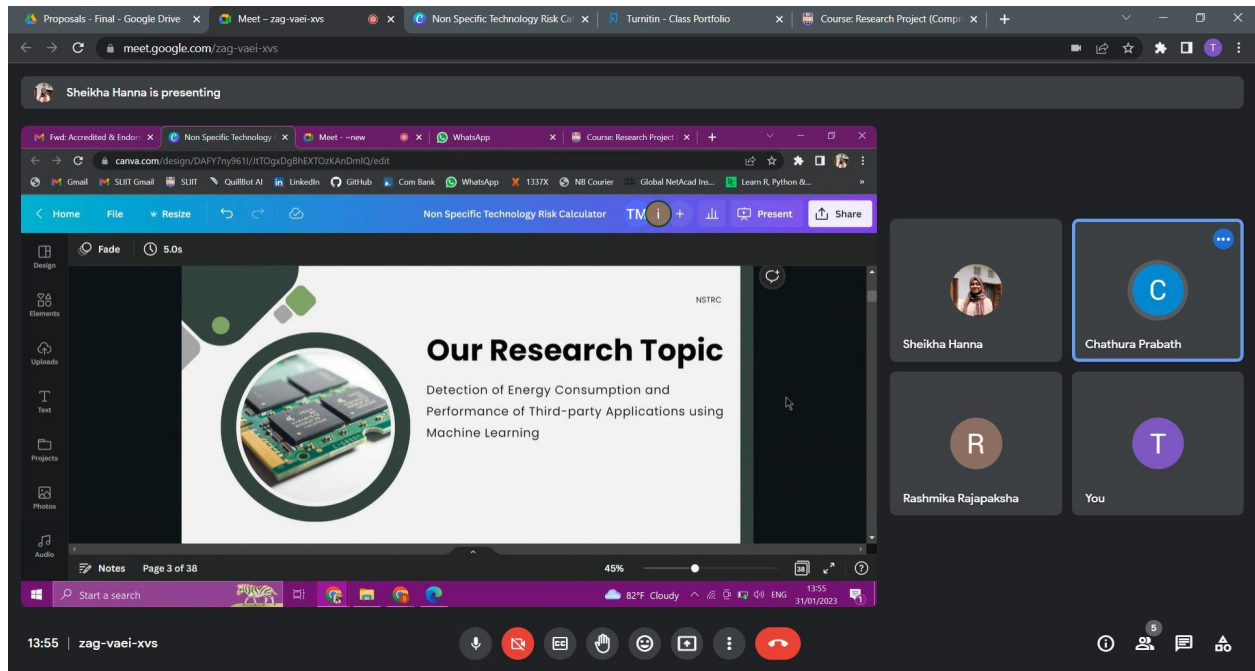


Figure 17: Google Meet PPI Review Meeting

50% completion of the component

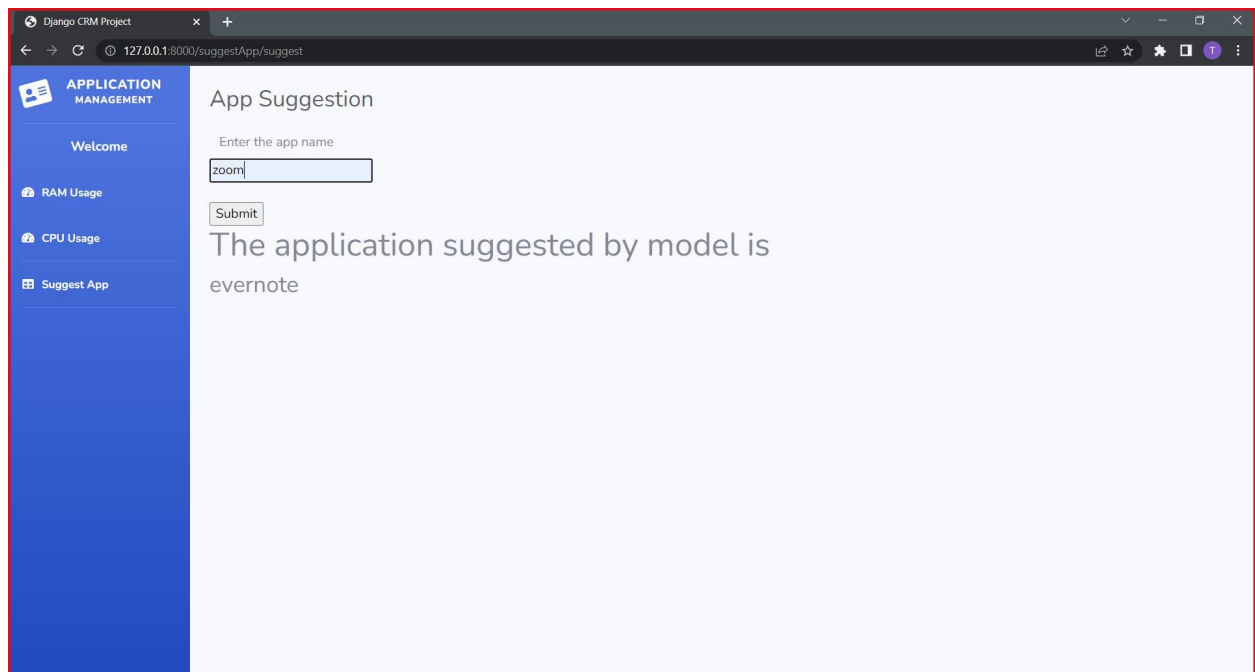


Figure 18: 50% completion Component

Gantt Chart

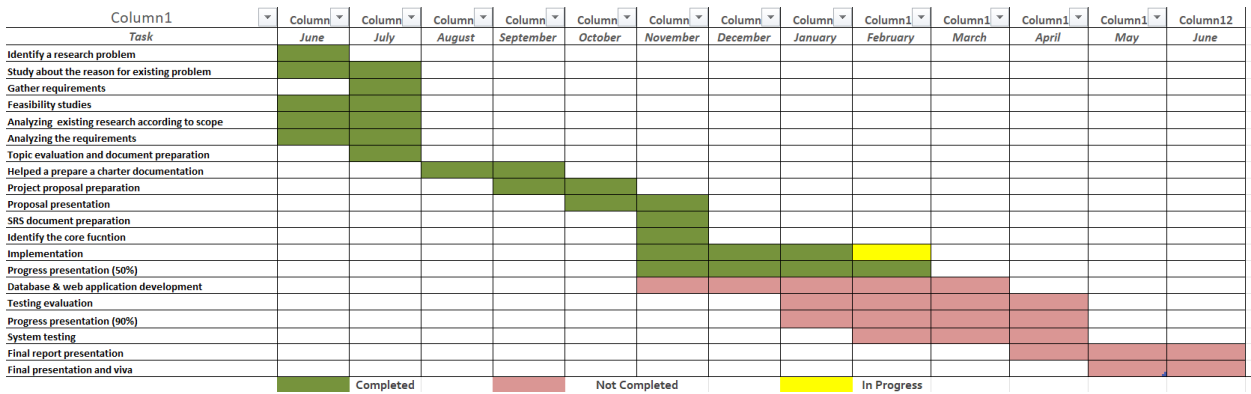


Figure 20: Team Gantt Chart