

# **THIRD EYE – A MOBILE APPLICATION FOR VISUALLY IMPAIRED PEOPLE TO ASSIST WITH DAILY TASKS**

22\_23-J 83

Status Document 1

K.D.J Jayasekara – IT19103600

B.Sc. (Hons) Degree in Information Technology specializing in  
Information Technology

Department of Computer Science and Software Engineering

Sri Lanka Institute of Information Technology

Sri Lanka

February 2023

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# 1. Submissions

## 1.1 Individual Submissions

SharePoint

Search this library

**CDAPSubmissionCloud**

Private group

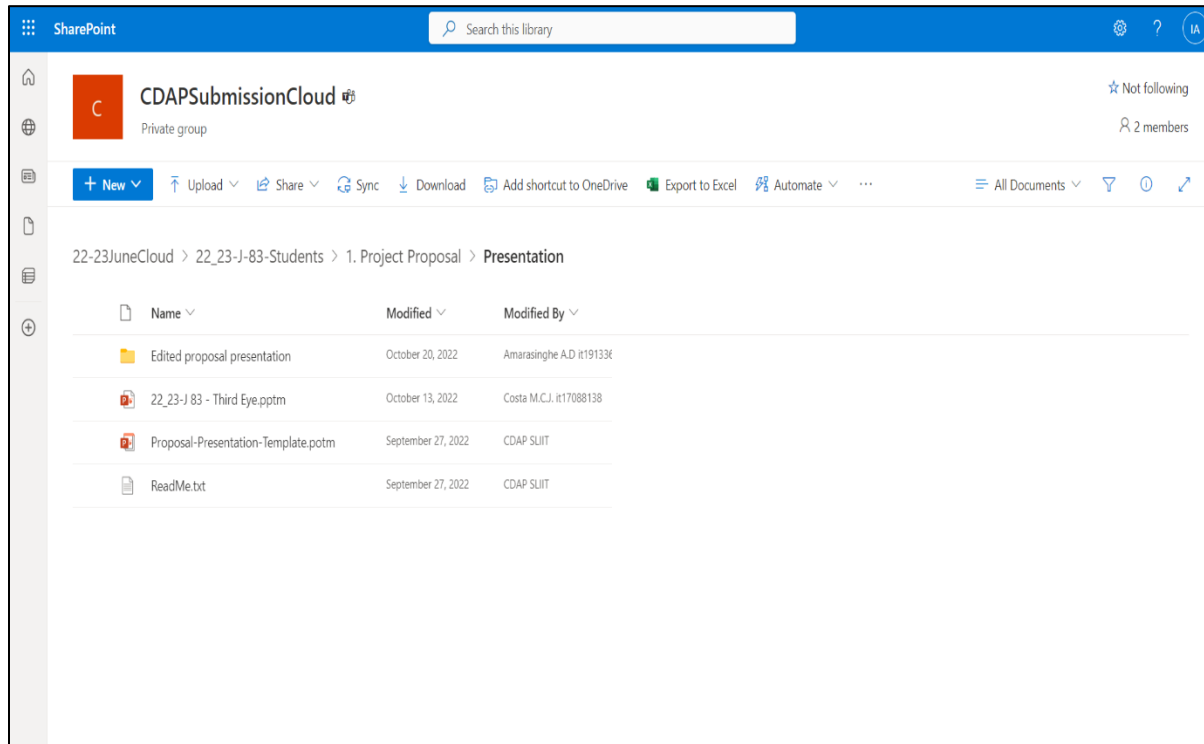
Not following

2 members

22-23JuneCloud > 22\_23-J-83-Students > 1. Project Proposal > Individual Reports > Jayasekara K.D.J. it19103600

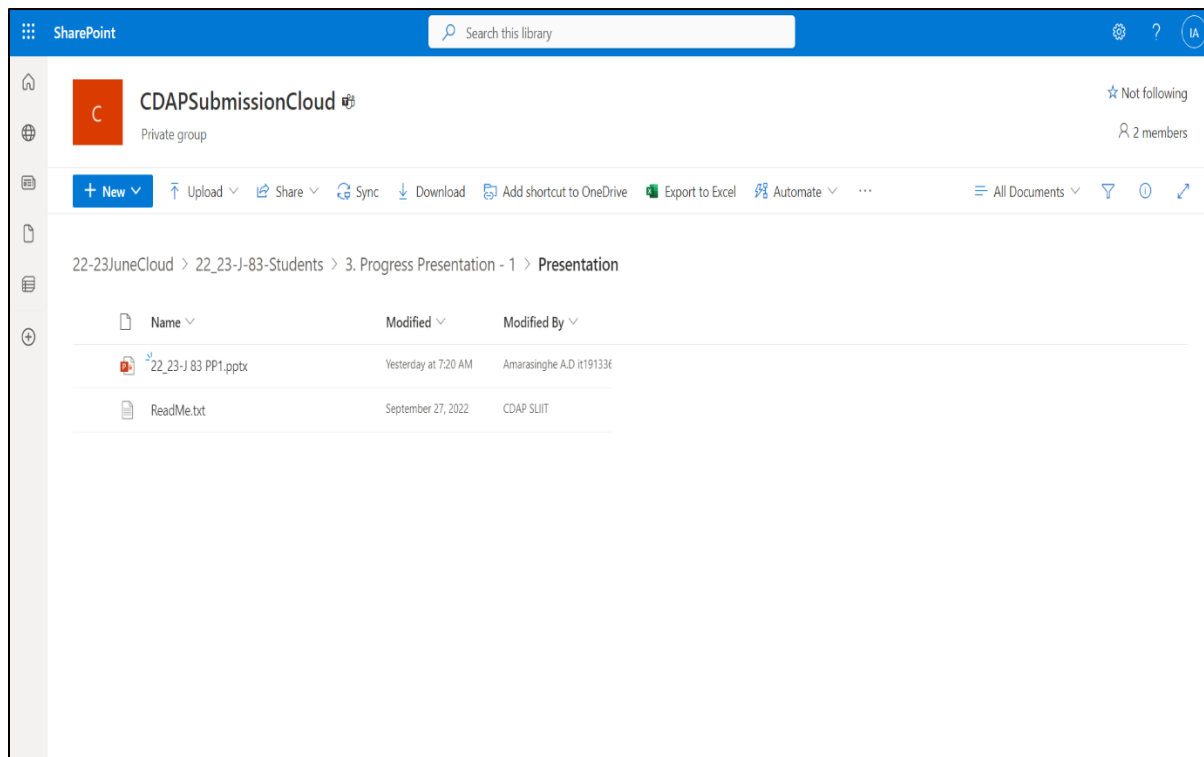
Name	Modified	Modified By
IT19103600.docx	October 13, 2022	Jayasekara K.D.J. it19103600

## 1.2 Group Submissions



SharePoint interface showing the 'CDAPSubmissionCloud' group. The breadcrumb path is: 22-23JuneCloud > 22\_23-J-83-Students > 1. Project Proposal > Presentation. The table below lists the documents in this folder.

Name	Modified	Modified By
Edited proposal presentation	October 20, 2022	Amarasinghe A.D it19133k
22_23-J 83 - Third Eye.pptm	October 13, 2022	Costa M.C.J. it17088138
Proposal-Presentation-Template.potm	September 27, 2022	CDAP SLIIT
ReadMe.txt	September 27, 2022	CDAP SLIIT



SharePoint interface showing the 'CDAPSubmissionCloud' group. The breadcrumb path is: 22-23JuneCloud > 22\_23-J-83-Students > 3. Progress Presentation - 1 > Presentation. The table below lists the documents in this folder.

Name	Modified	Modified By
22_23-J 83 PP1.pptx	Yesterday at 7:20 AM	Amarasinghe A.D it19133k
ReadMe.txt	September 27, 2022	CDAP SLIIT

## 2.Task Outputs

```
[ ] # Start tensorboard
# Launch after you have started training
# logs save in the folder "runs"
▶ Launch TensorBoard Session
%load_ext tensorboard
▶ Launch TensorBoard Session
%tensorboard --logdir runs
Python

...

#Run Inference With Trained Weights Run inference with a pretrained checkpoint on contents of test/images folder downloaded from Roboflow.

[ ] !python detect.py --weights runs/train/exp/weights/best.pt --img 416 --conf 0.1 --source {dataset.location}/train/images
Python

...

#display inference on ALL test images

import glob
from IPython.display import Image, display

for imageName in glob.glob('/content/yolov5/runs/detect/exp4/*.jpg'): #assuming JPG
    display(Image(filename=imageName))
    print("\n")
Python

[ ]

Python
```

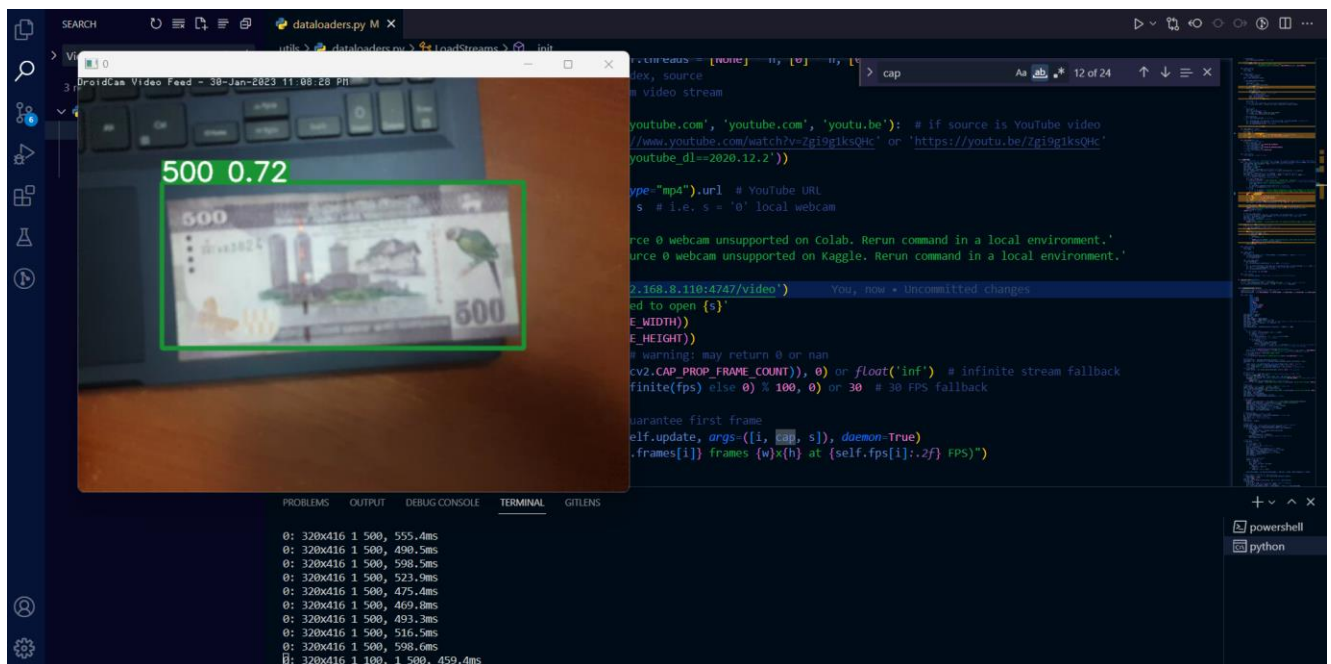
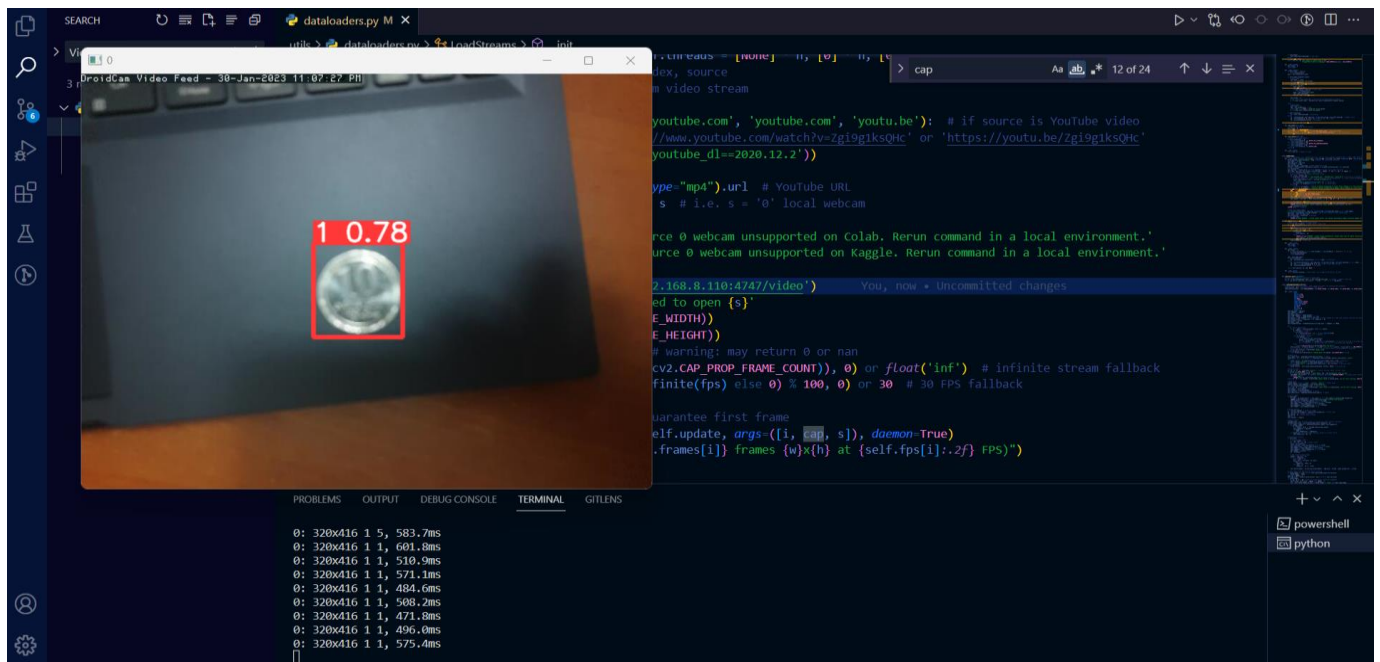
```
from roboflow import Roboflow
rf = Roboflow(model_format="yolov5", notebook="ultralytics")
[1] 9.3s Python

# set up environment
os.environ["DATASET_DIRECTORY"] = "/content/datasets"
[ ] Python

#after following the link above, recieve python code with these fields filled in
!pip install roboflow

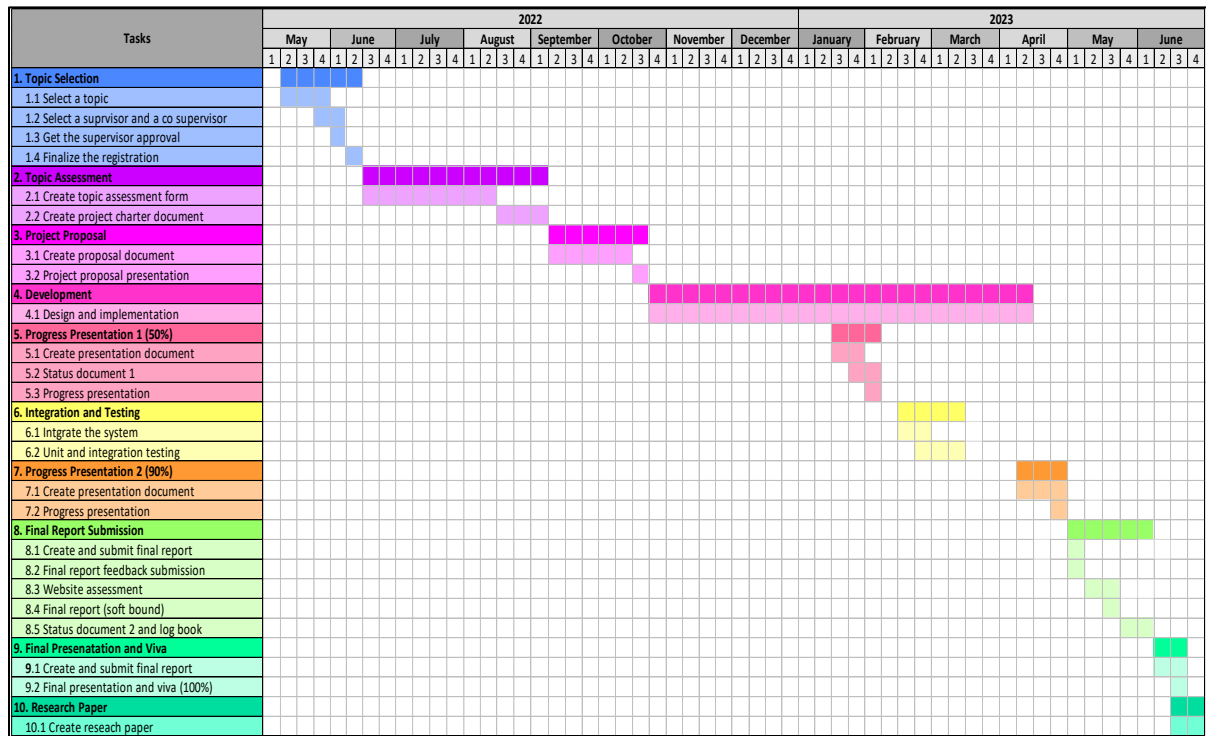
from roboflow import Roboflow
rf = Roboflow(api_key="Q71qB9Kj9ktlQnvNHFS0")
project = rf.workspace("exelk-tt0lg").project("currency-classifier-5")
dataset = project.version(7).download("yolov5")
[ ] Python
```

```
detect.py x
detect.py > ...
106 dataset = LoadStreams(source, img_size=imgsz, stride=stride, auto-pt, vid_stride=vid_stride)
107 bs = len(dataset)
108 elif screenshot:
109 dataset = LoadScreenshots(source, img_size=imgsz, stride=stride, auto-pt)
110 else:
111 dataset = LoadImages(source, img_size=imgsz, stride=stride, auto-pt, vid_stride=vid_stride)
112 vid_path, vid_writer = [None] * bs, [None] * bs
113
114 # Run inference
115 model.warmup(imgsz=(1 if pt or model.triton else bs, 3, *imgsz)) # warmup
116 seen, windows, dt = 0, [], (Profile(), Profile(), Profile())
117 for path, im, im0s, vid_cap, s in dataset:
118     with dt[0]:
119         im = torch.from_numpy(im).to(model.device)
120         im = im.half() if model.fp16 else im.float() # uint8 to fp16/32
121         im /= 255 # 0 - 255 to 0.0 - 1.0
122         if len(im.shape) == 3:
123             im = im[None] # expand for batch dim
124
125     # Inference
126     with dt[1]:
127         visualize = increment_path(save_dir / Path(path).stem, mkdir=True) if visualize else False
128         pred = model(im, augment=augment, visualize=visualize)
129
130     # NMS
131     with dt[2]:
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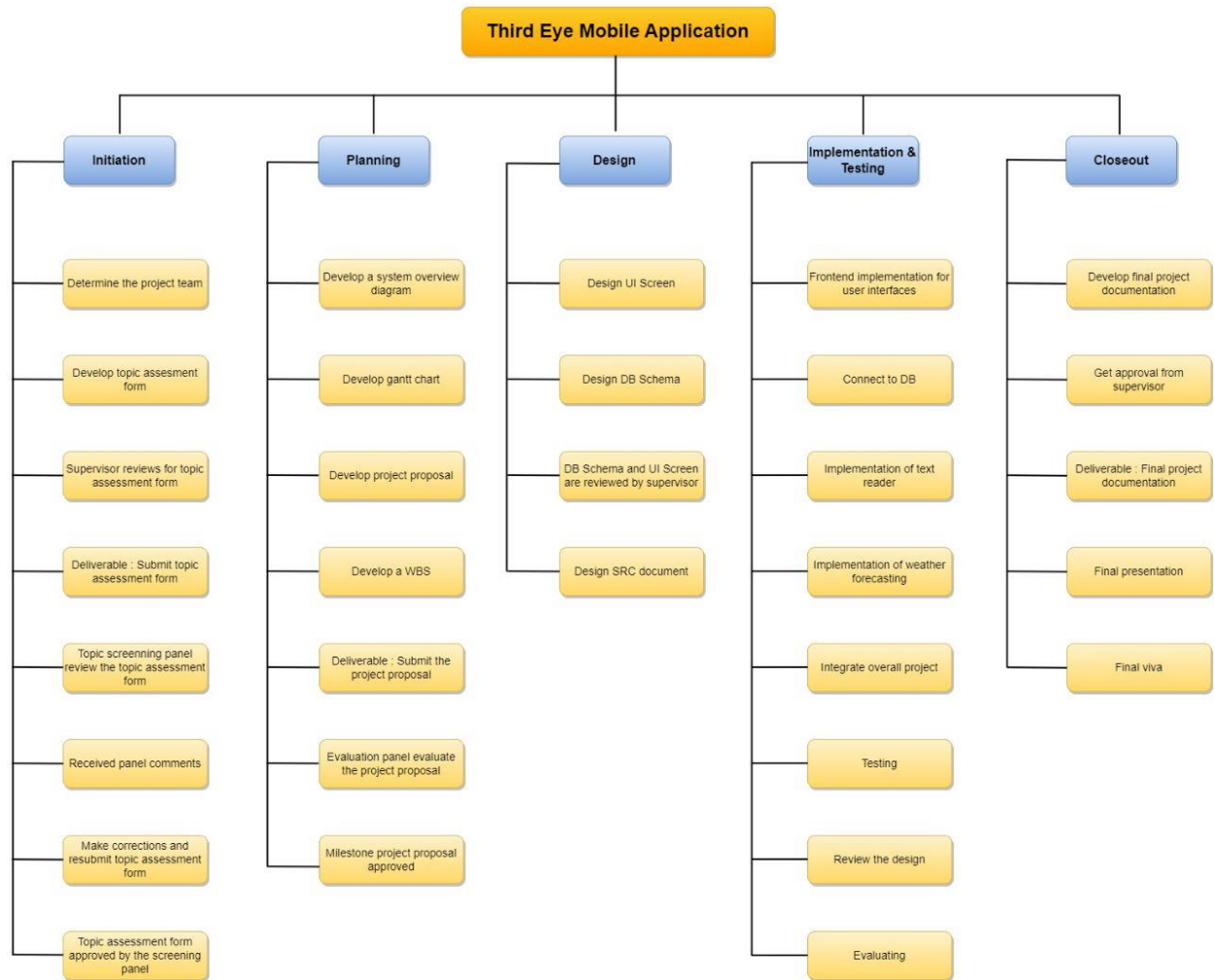




### 3.1 Initial Gantt Chart

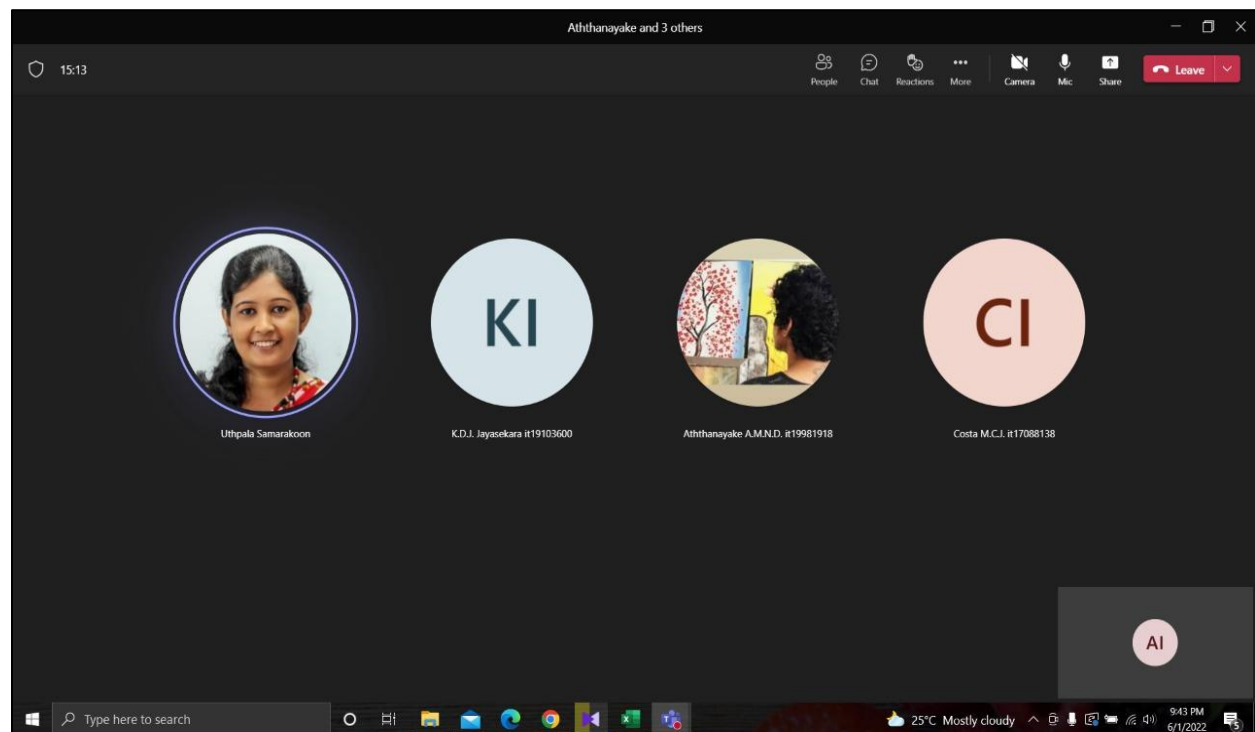
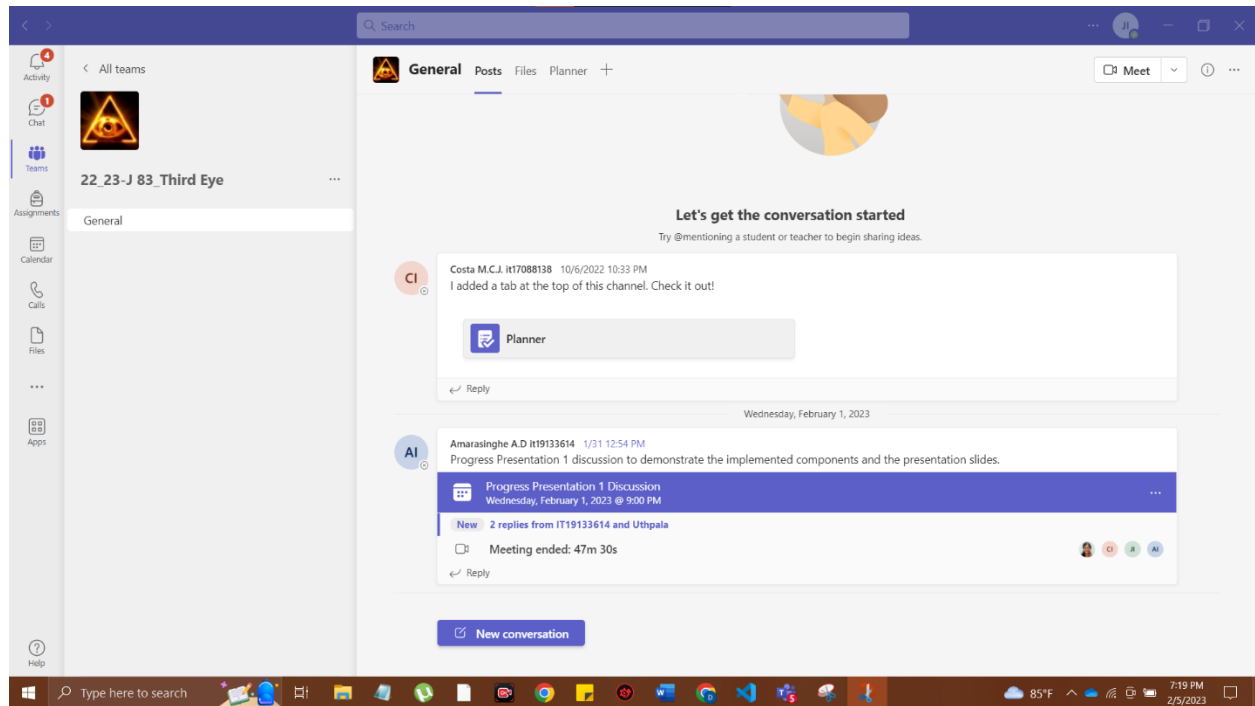


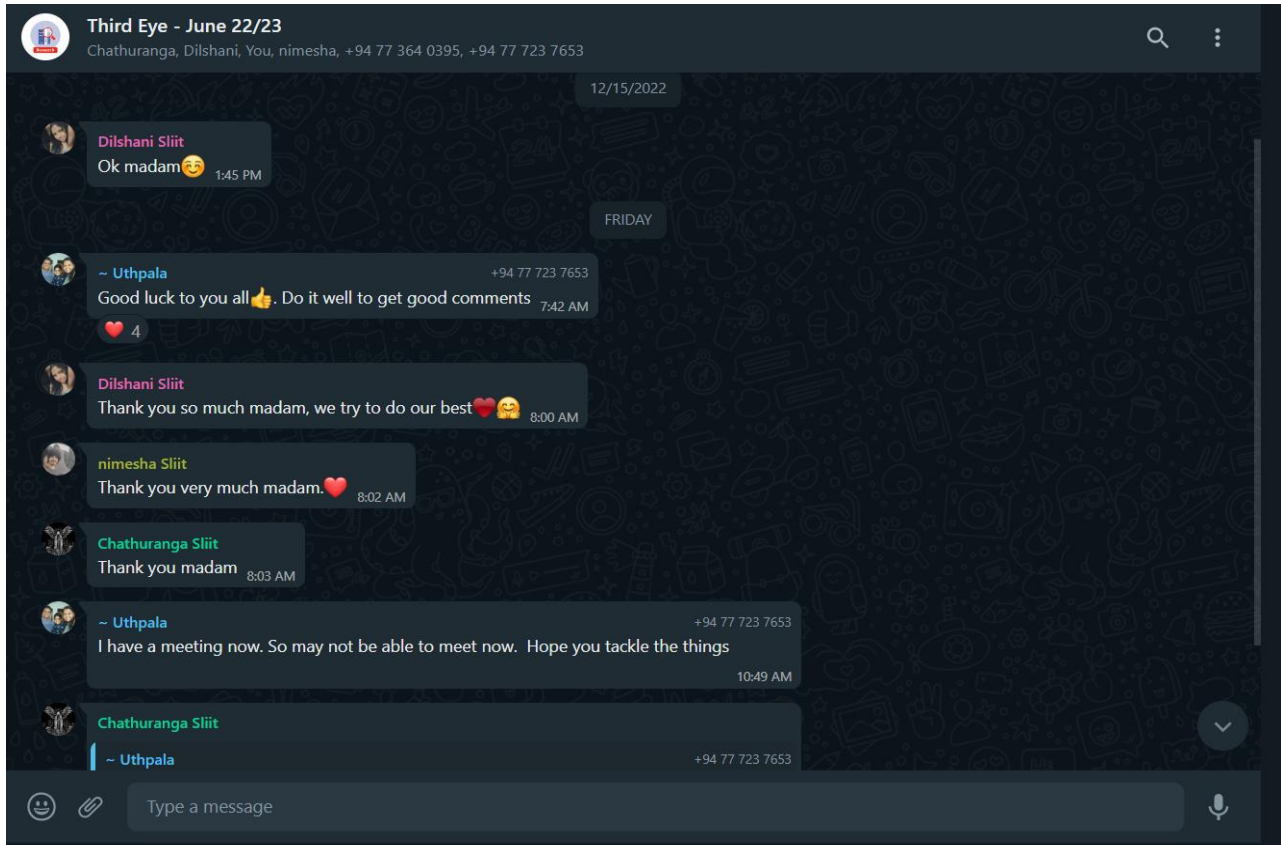
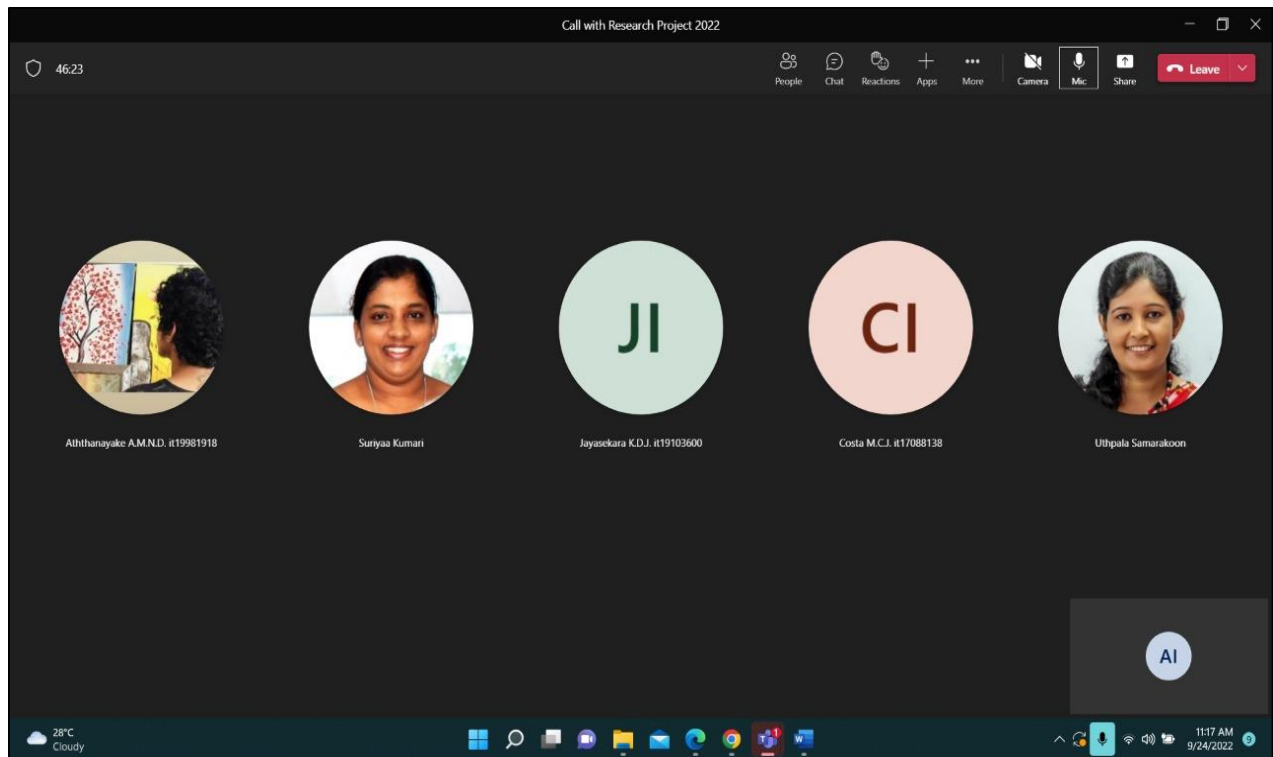
## 4. Work Breakdown Structure

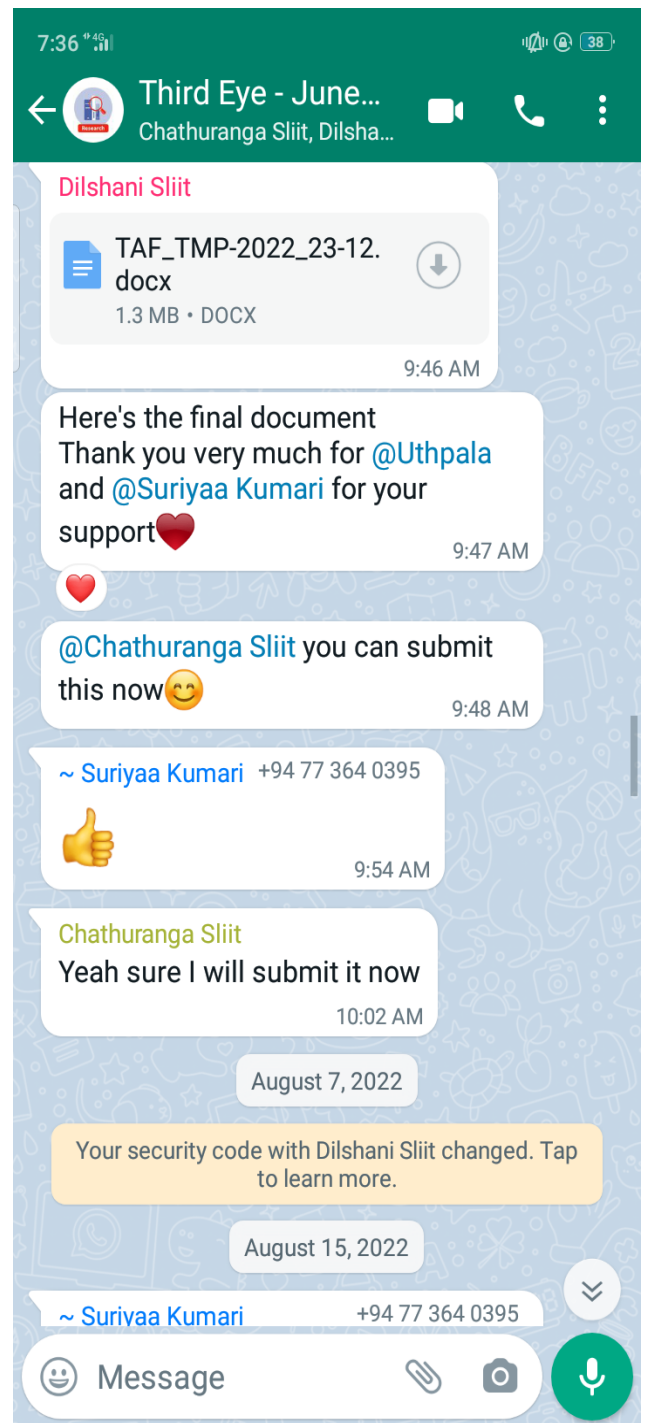
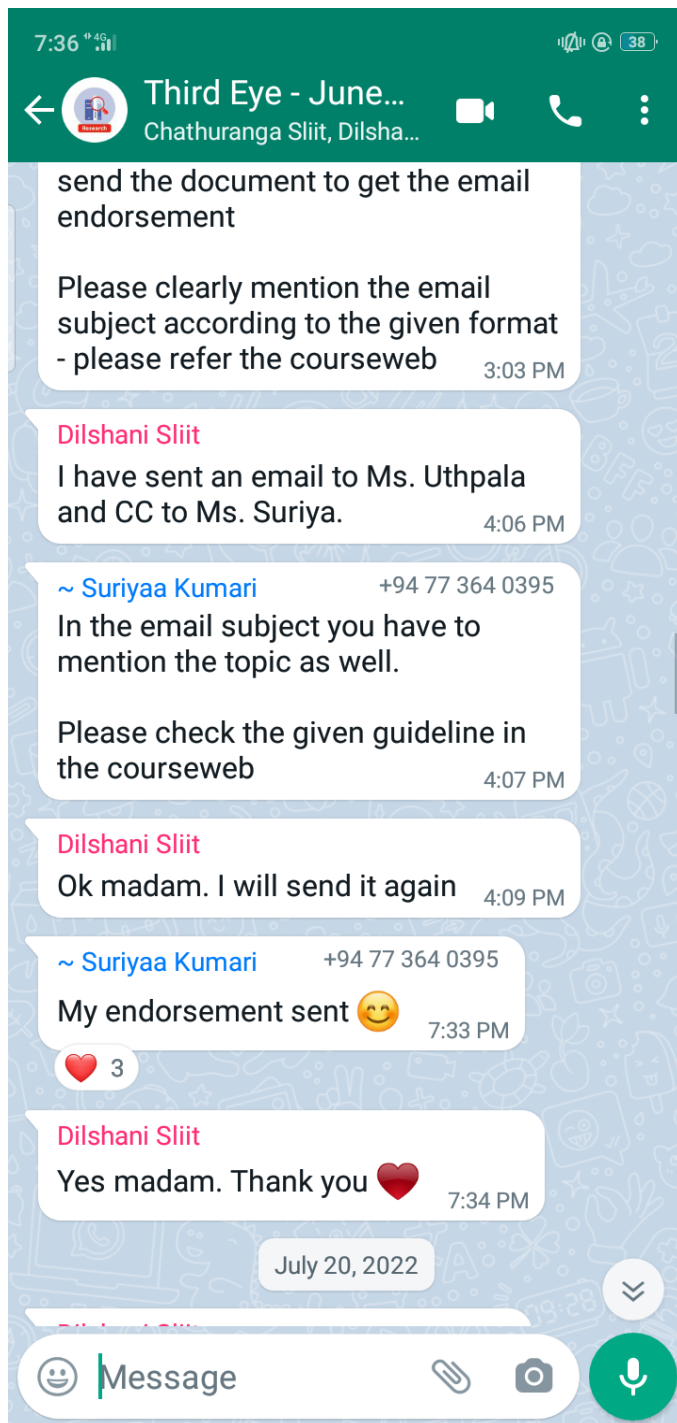


## 5. Project Management

### 5.1 Supervisor meetings, calls and messages from Teams and WhatsApp







## 5.2 Group meetings, calls and messages from Teams and WhatsApp

A

c

We 4 - Research Group

Chat Files +

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⬆️

👤 4

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gitlab.sliit.lk

CJ

Costa M.C.J. it17088138

10/6/2022 10:26 PM

[https://support.microsoft.com/en-us/office/use-planner-in-microsoft-teams-62798a9f-e8f7-4722-a700-27dd28a06ee0#bkmk\\_addaplannertabtoateamchannel](https://support.microsoft.com/en-us/office/use-planner-in-microsoft-teams-62798a9f-e8f7-4722-a700-27dd28a06ee0#bkmk_addaplannertabtoateamchannel)

CJ

Costa M.C.J. it17088138

10/6/2022 11:08 PM

[https://mysliit.sharepoint.com/sites/CDAPSubmissionCloud/2223JuneCloud/Forms/AllItems.aspx?id=%2Fsites%2FCDAPSubmissionCloud%2F2223JuneCloud%2F22%5F23%2D\)%2D83%2DStudents&viewid=cd1630e5%2D1b2a%2D4444%2Daf18%2D8f6636600c1](https://mysliit.sharepoint.com/sites/CDAPSubmissionCloud/2223JuneCloud/Forms/AllItems.aspx?id=%2Fsites%2FCDAPSubmissionCloud%2F2223JuneCloud%2F22%5F23%2D)%2D83%2DStudents&viewid=cd1630e5%2D1b2a%2D4444%2Daf18%2D8f6636600c1)

📞

10/6/2022 11:30 PM Call ended **2h 29m 21s**

Sunday, October 16, 2022

Aththanayake A.M.N.D. it19981918

10/16/2022 9:03 PM

gmuda cll ekk

📞

10/16/2022 9:06 PM Call started

CJ

Costa M.C.J. it17088138

10/16/2022 11:21 PM

[http://4.bp.blogspot.com/\\_4dlOc40IMEs/S-ybU4JOmVI/AAAAAAAAACCI/VafeuUFsvuw/S1600-R/Daltonize.png](http://4.bp.blogspot.com/_4dlOc40IMEs/S-ybU4JOmVI/AAAAAAAAACCI/VafeuUFsvuw/S1600-R/Daltonize.png)

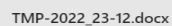
CJ

Costa M.C.J. it17088138

10/16/2022 11:40 PM

Faster R-CNN

Type a new message



CI



Type a new message



We 4 - Research Group

[Chat](#)
[Files](#)
+

4

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AI

Amarasinghe A.D it19133614 1/28 5:45 PM

[http://gitlab.sliit.lk/22\\_23-j-83/22\\_23-j-83](http://gitlab.sliit.lk/22_23-j-83/22_23-j-83)

**Sign in**

GitLab Community Edition

gitlab.sliit.lk

1/28 6:22 PM Recording has started

1/28 6:51 PM Call ended **1h 7m 57s**

1/28 6:51 PM Recording has stopped. Saving recording...

**Recording**

Aththanayake A.M.N.D. i...

28m 57s

This recording is set to expire. [View or change the expiration date here.](#) [Learn more](#)

Aththanayake A.M.N.D. it19981918 changed the group name to We 4 - Research Group.

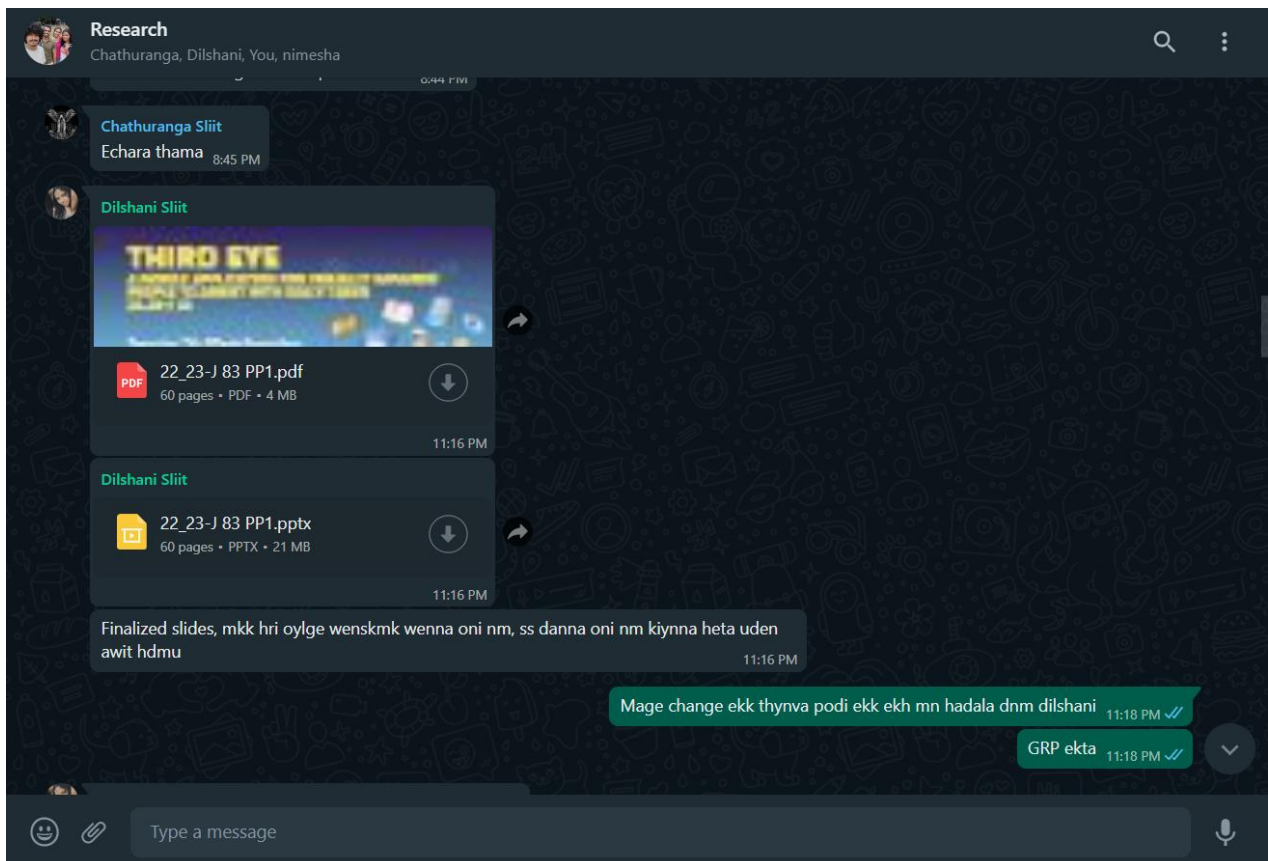
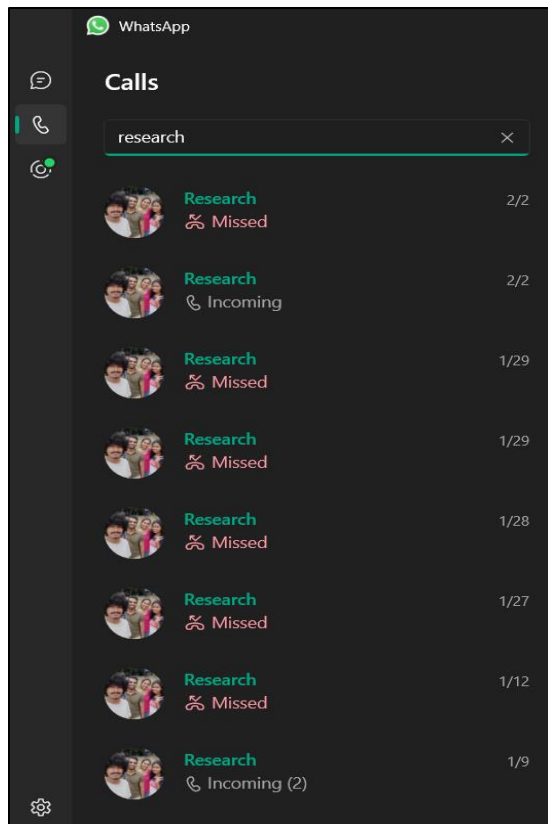
Wednesday, February 1

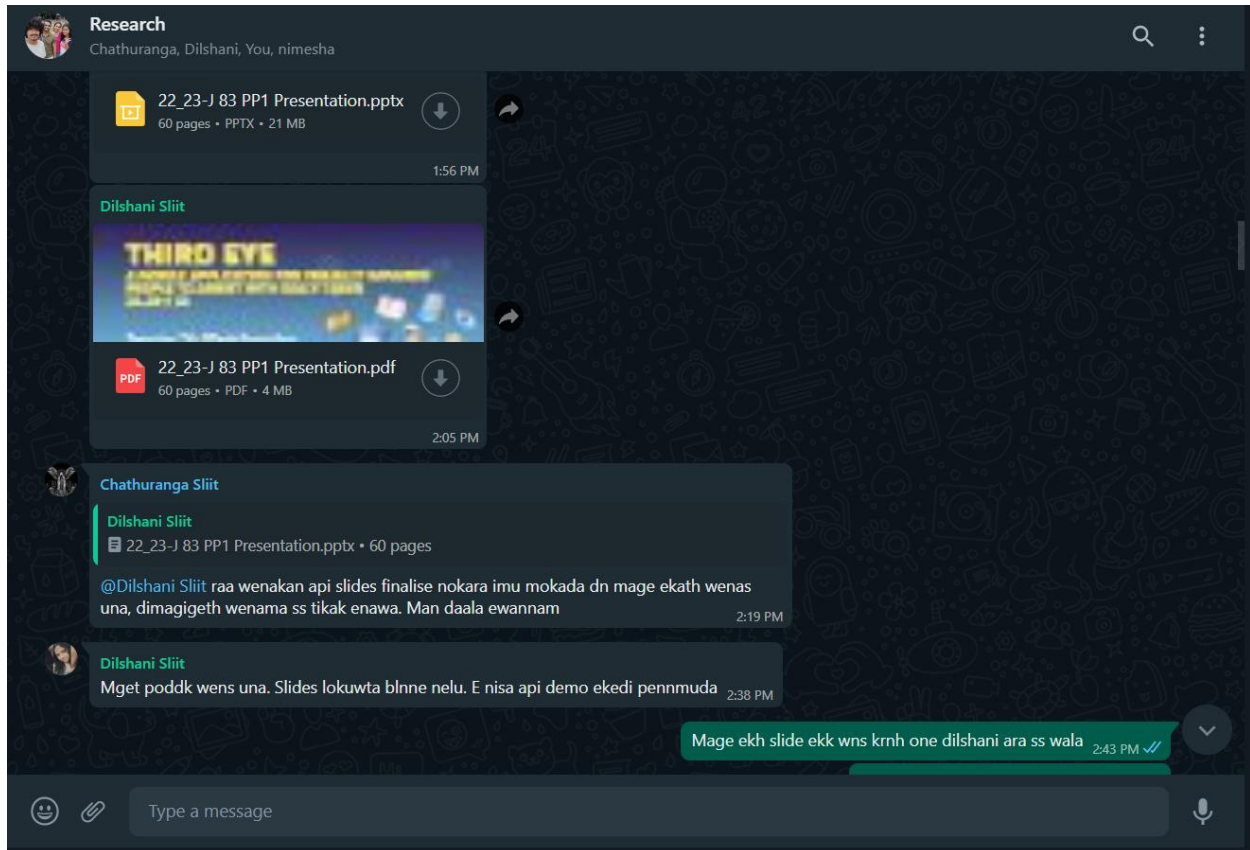
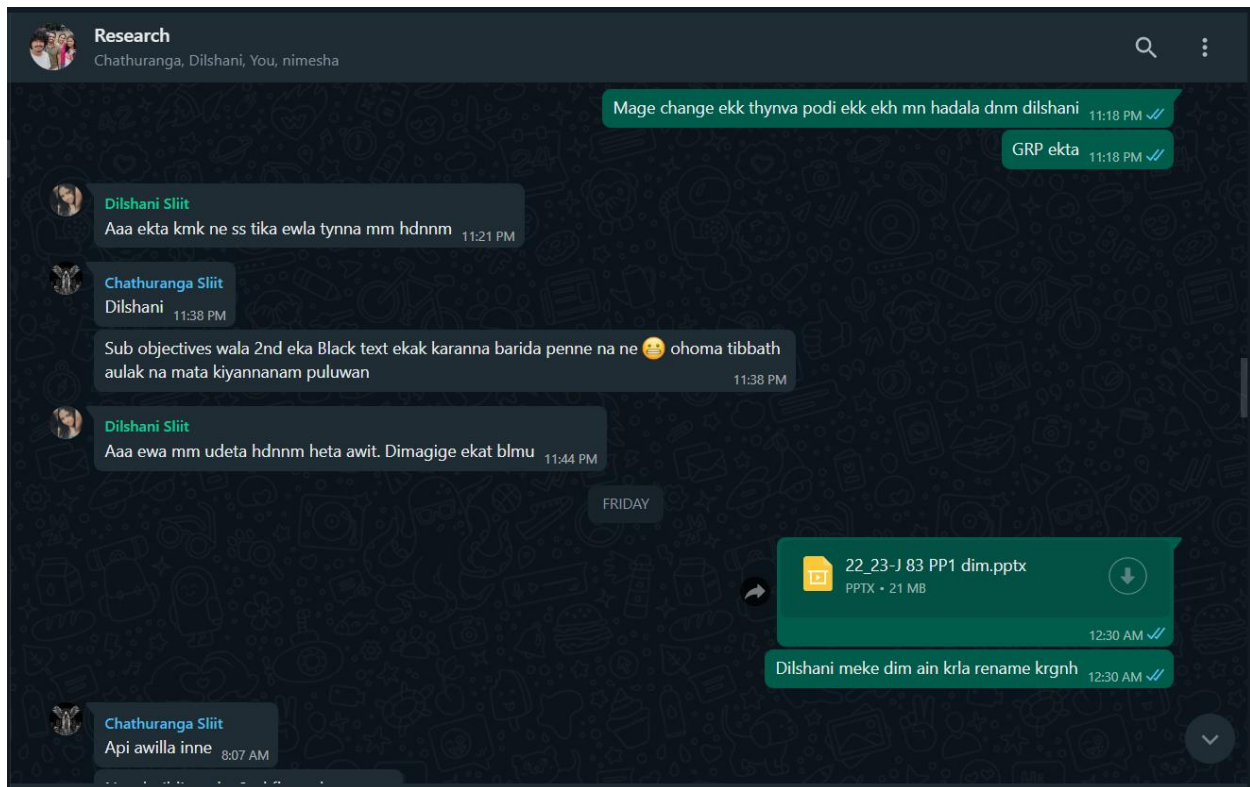
2/1 9:49 PM Call missed

2/1 11:41 PM Call ended **1h 14m 40s**

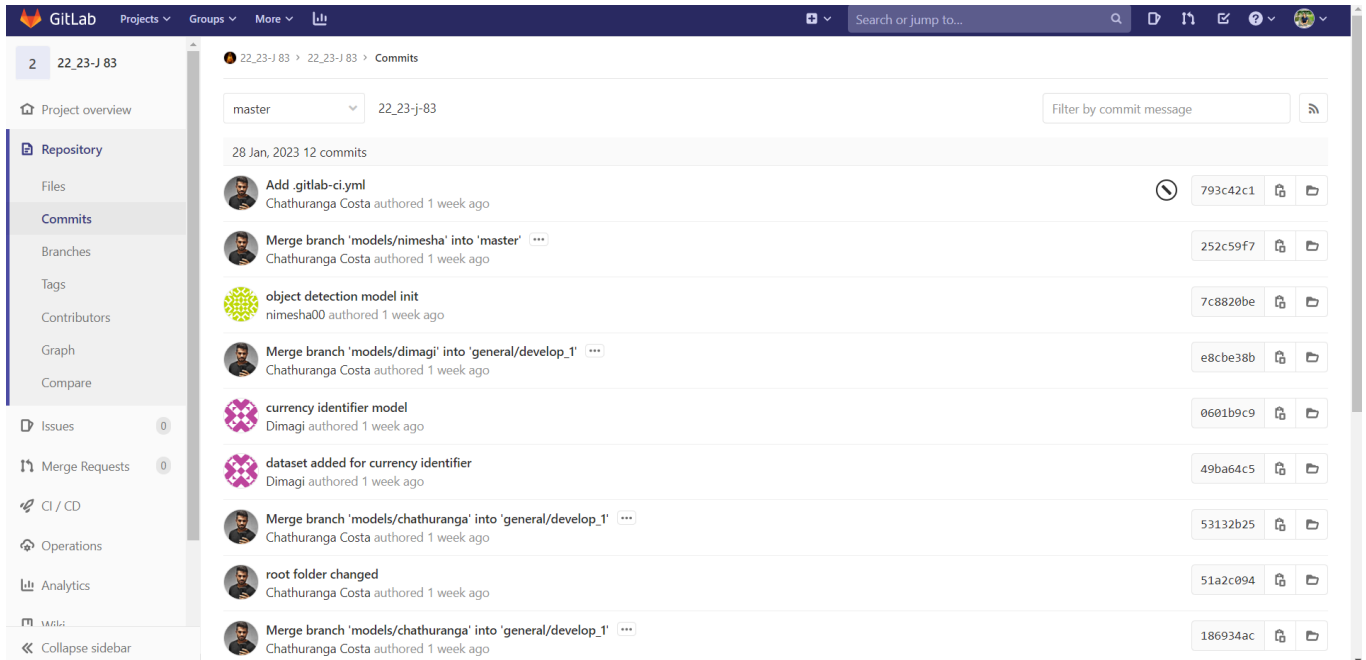
Type a new message





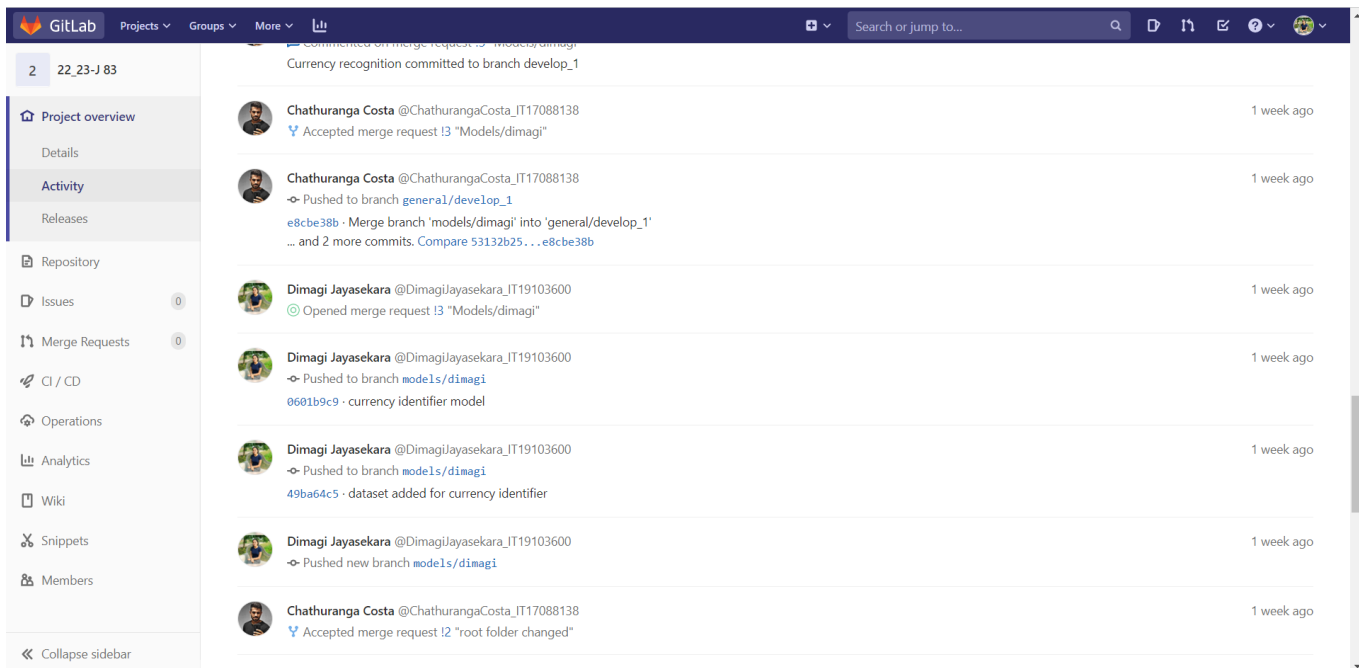


## 5.3 GitLab Contribution



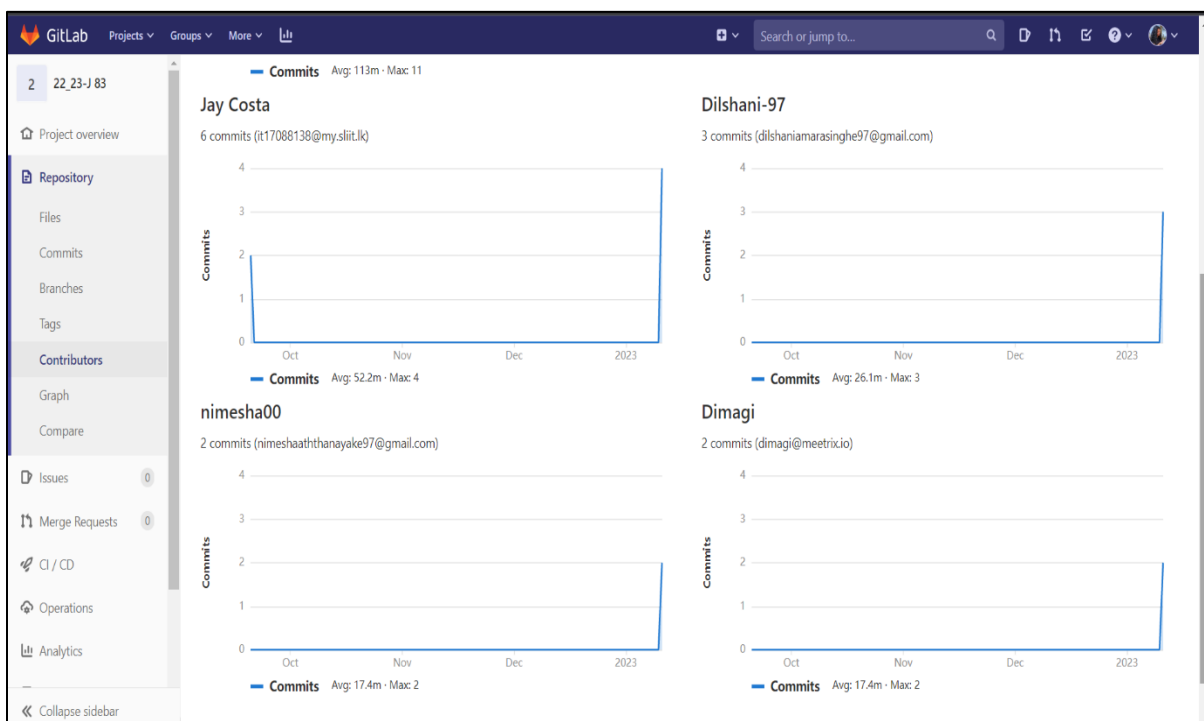
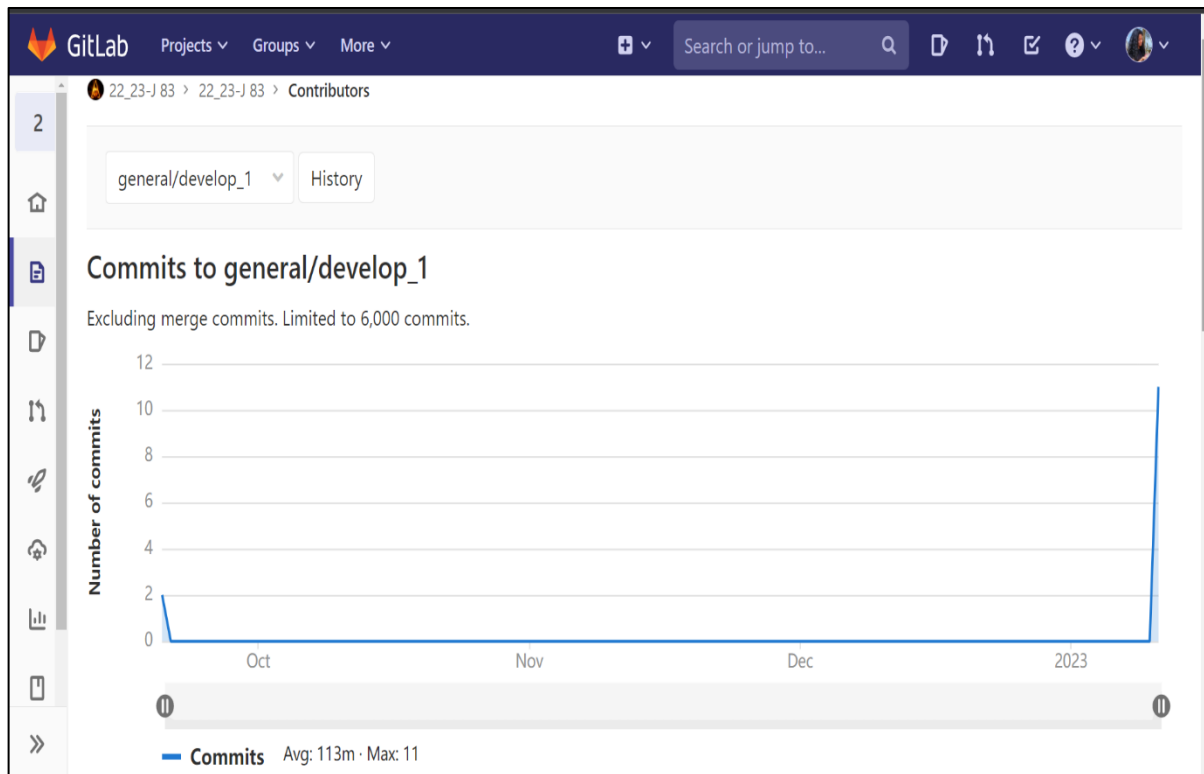
The screenshot shows the GitLab interface for a repository. The left sidebar contains navigation links: Project overview, Repository (selected), Files, Commits (selected), Branches, Tags, Contributors, Graph, and Compare. The main content area displays a list of commits for the 'master' branch, filtered by commit message. The commits are listed in reverse chronological order, starting from 28 Jan, 2023. Each commit entry includes the commit message, the author's name, the commit hash, and icons for viewing the commit details, the diff, and the files changed.

Commit Message	Author	Commit Hash
Add .gitlab-ci.yml	Chathuranga Costa	793c42c1
Merge branch 'models/nimesha' into 'master'	Chathuranga Costa	252c59f7
object detection model init	nimesha00	7c8820be
Merge branch 'models/dimagi' into 'general/develop_1'	Chathuranga Costa	e8cbe38b
currency identifier model	Dimagi	0601b9c9
dataset added for currency identifier	Dimagi	49ba64c5
Merge branch 'models/chathuranga' into 'general/develop_1'	Chathuranga Costa	53132b25
root folder changed	Chathuranga Costa	51a2c094
Merge branch 'models/chathuranga' into 'general/develop_1'	Chathuranga Costa	186934ac



The screenshot shows the GitLab interface for a repository, specifically the 'Merge Requests' section. The left sidebar contains navigation links: Project overview, Activity (selected), Releases, Repository, Issues, Merge Requests (selected), CI / CD, Operations, Analytics, Wiki, Snippets, and Members. The main content area displays a list of merge requests for the 'general/develop\_1' branch, filtered by commit message. The merge requests are listed in reverse chronological order, starting from 1 week ago. Each merge request entry includes the merge request title, the author's name, the merge request number, and icons for viewing the merge request details, the diff, and the files changed.

Merge Request Title	Author	Merge Request Number
Currency recognition committed to branch develop_1	Chathuranga Costa	13
Accepted merge request !3 "Models/dimagi"	Chathuranga Costa	13
Pushed to branch general/develop_1	Chathuranga Costa	13
Merge branch 'models/dimagi' into 'general/develop_1'	Chathuranga Costa	13
and 2 more commits. Compare 53132b25...e8cbe38b	Chathuranga Costa	13
Opened merge request !3 "Models/dimagi"	Dimagi Jayasekara	13
Pushed to branch models/dimagi	Dimagi Jayasekara	13
0601b9c9 - currency identifier model	Dimagi Jayasekara	13
Pushed to branch models/dimagi	Dimagi Jayasekara	13
49ba64c5 - dataset added for currency identifier	Dimagi Jayasekara	13
Pushed new branch models/dimagi	Dimagi Jayasekara	13
Accepted merge request !2 "root folder changed"	Chathuranga Costa	12



## 5.4 Teams Planner

Search

General Posts Files Planner +

Group by Bucket Filter (1) List Board Charts Schedule

To do In Progress Done

+ Add task + Add task + Add task

Dimagi

currency identification train dataset improving

02/13

Dimagi

currency identification coin identification not working

02/06

Completed

Costa M.C.J. ... 10/6/2022 10:33 PM

I added a tab at the top of this channel. Check it out!

Planner

8:00 PM K

Please type a message to continue.

Reply

Type here to search

83°F Mostly cloudy

8:00 PM 2/5/2023

Search

Tasks by Planner and To Do

Progress Priority Due date

1 selected All Active Filter

My tasks To Do

Tasks

Important

Planned

Assigned to me

Shared plans Planner

22\_23-J 83\_Third Eye

Assigned to me

Task title	Source	Pri...	Due
+ Add a task			
currency identification coin identification not working	General / Planner	2/6	...
currency identification train dataset improving	General / Planner	2/13	...

+ New list or plan

Type here to search

83°F Mostly cloudy

8:02 PM 2/5/2023

Activity

Chat

Teams

Assignments

Calendar

Calls


Files

...

Apps


Help

< All teams








22\_23-J 83\_Third Eye

General

 **General** Posts Files **Planner** +

All Active Filter (1) List Board Charts Schedule

Task title	Assigned to
+ Add a task	
<input type="radio"/> currency identification train dataset improving	  Jayasekara K.D.J. it191...
<input type="radio"/> currency identification coin identification not working	   Jayasekara K.D.J. it191...

Activity

Chat

Teams

Assignments

Calendar

Calls


Files

...

Apps


Help

< All teams



22\_23-J 83\_Third Eye

General

 **General** Posts Files **Planner** +

Group by Bucket Filter List **Board** Charts Schedule

To do


In Progress

Done


+ Add task

Nimesha

☐ create formula for other objects




02/11



Chathuranga


☐ isihara using support vector classification

02/07




Dimagi

☐ currency identification train dataset improving



02/13





Dilshani

☐ voice assistant responses dataset improving


+ Add task

Nimesha

☐ improve object identifier distance with focal length formula



 

02/06




Dimagi

☐ currency identification coin identification not working



 

02/06




Chathuranga

☐ isihara using decision tress classifier

02/13



Dilshani

☐ model accuracy for ISTM

+ Add task

Completed

Search

Activity

Chat

Teams

Assignments

Calendar

Calls

Files

Apps

Help

All teams

22\_23-J 83\_Third Eye

General

General

Posts

Files

Planner

Group by Bucket

Filter

List

Board

Charts

Schedule

Status

8

Tasks left

Not started

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In progress

4

Late

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Completed

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Bucket

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Tasks

+ Add task

To do

Nimesha

create formula for other objects

02/11

Chathuranga

isihara using support vector classification

02/07

Dimagi

currency identification train dataset improving

02/13

Search

Activity

Chat

Teams

Assignments

Calendar

Calls

Files

Apps

Help

All teams

22\_23-J 83\_Third Eye

General

General

Posts

Files

Planner

Group by Bucket

Filter

List

Board

Charts

Schedule

< > February 2023

Hide future recurring tasks

Week

Month

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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	calculate ... +2 more	isihara usin... model ac...	voice assist...			create form...
12	13	14	15	16	17	18
	currency id... isihara us...					
19	20	21	22	23	24	25
26	27	28	1	2	3	4
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