

**Mobile Base Sinhala Book Reader for
Visually Impaired Individuals**

TMP-23-198

Status Document 1

Semini J.P.D.L. – IT20241346

Bachelor of Science (Hons) Degree in Information Technology
Specializing in Information Technology

Department of Information Technology
Faculty of Computing

Sri Lanka Institute of Information Technology
Sri Lanka

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1. Microsoft Teams Details

1.1 Team Members

The screenshot shows the Microsoft Teams interface for a team named "Blind App". The left sidebar contains navigation icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main pane displays the team's details, including the team name "Blind App" and its description "Research Project Group 2023". Below this, there are tabs for Members, Channels, Analytics, Apps, and Tags. The "Members" tab is selected, showing a search bar and an "Add member" button. The members list is organized into two sections: "Owners (1)" and "Members and guests (3)".

Owners (1)	
Name	Role
Jl Jayathunga T. M. it20146238	Owner

Members and guests (3)	
Name	Role
Semini J.P.D.L. it20241346	Member
Bhagya H.D.M. it20254520	Member
Gl Godakanda P. G. S. it20129712	Member

Figure 1: Team members

1.2 Team Chat Meetings

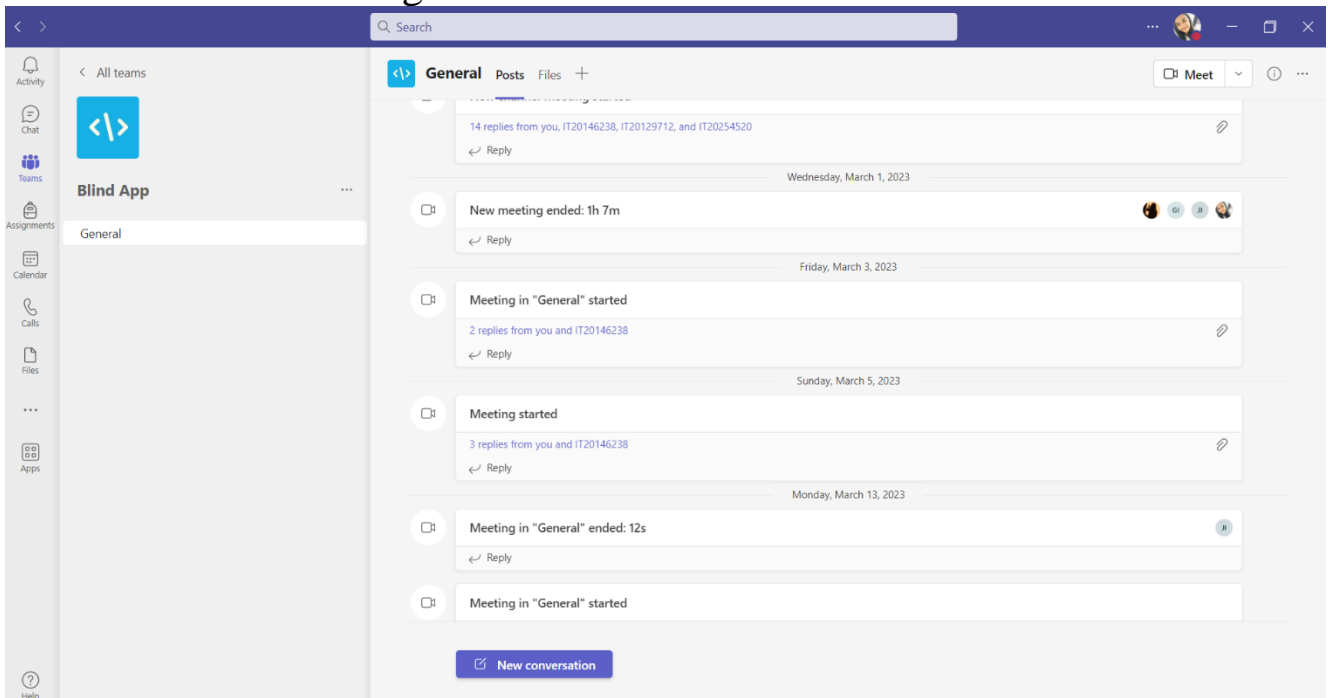


Figure 2: Team chat meetings

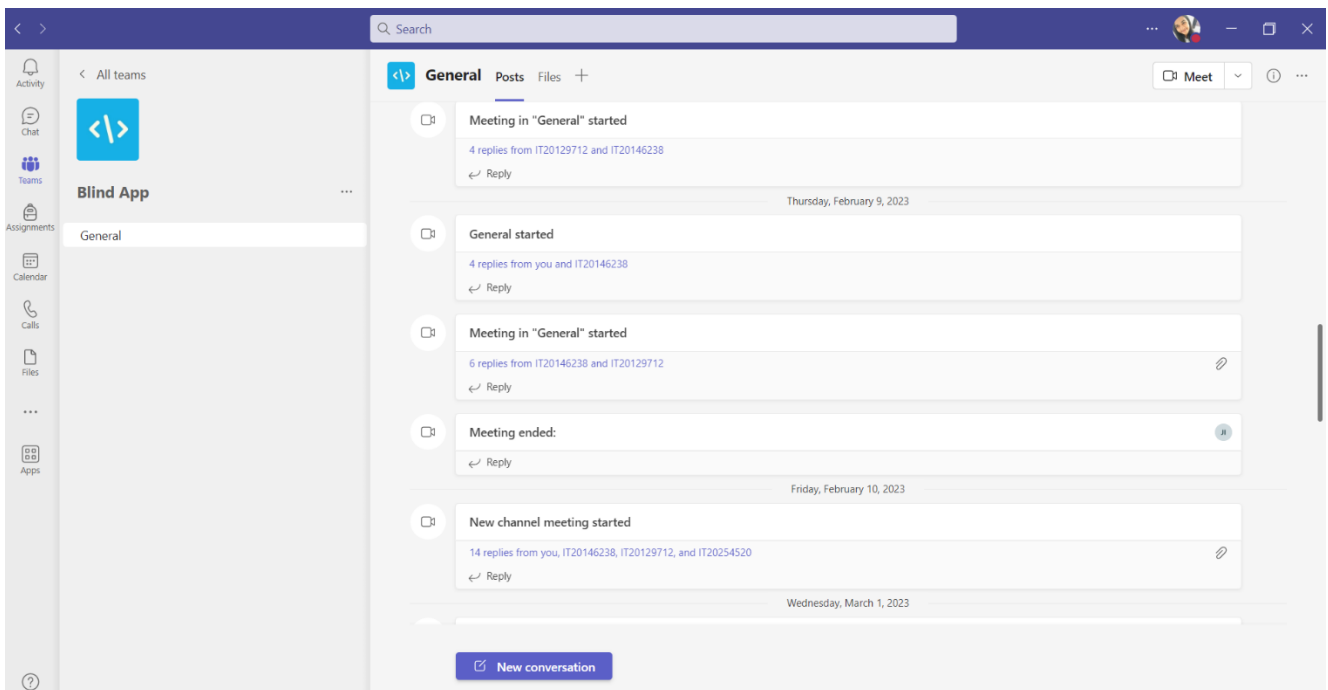


Figure 3: Team chat meetings

1.3 Teams chat group with the supervisor

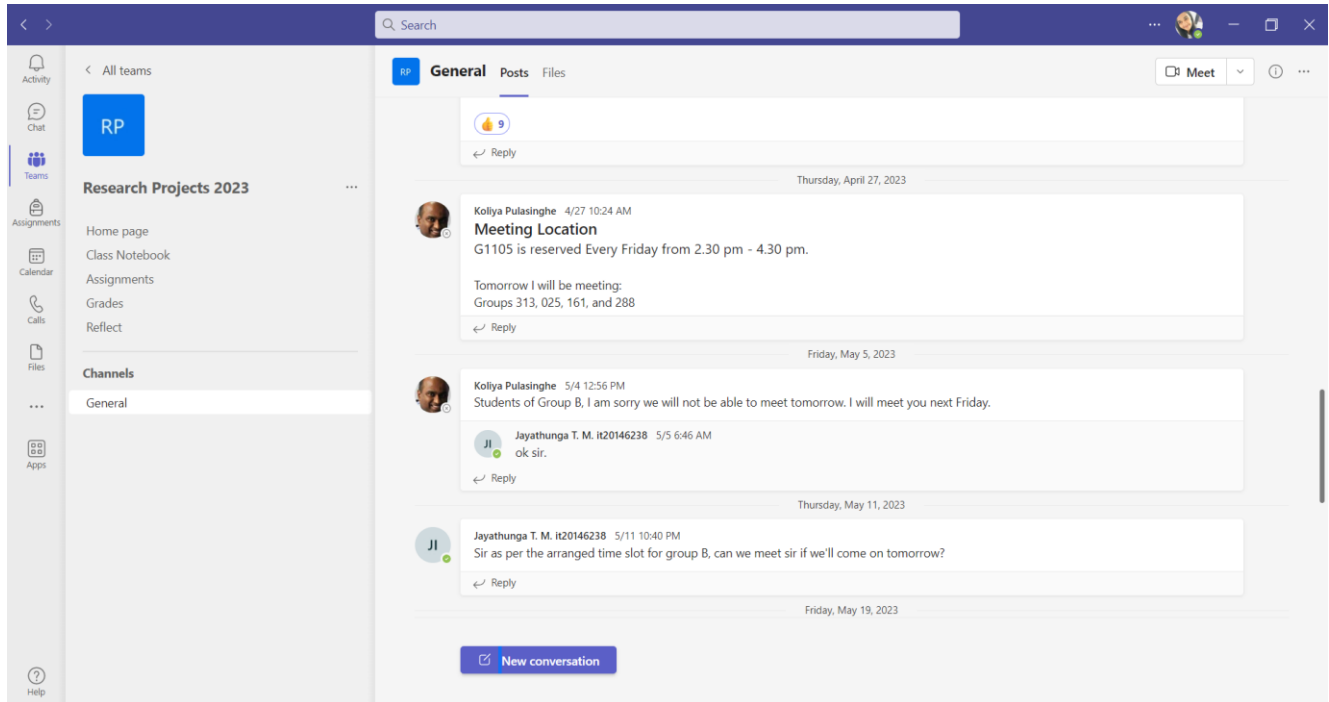


Figure 4: Team group with the supervisor

1.4 Teams calls with research team

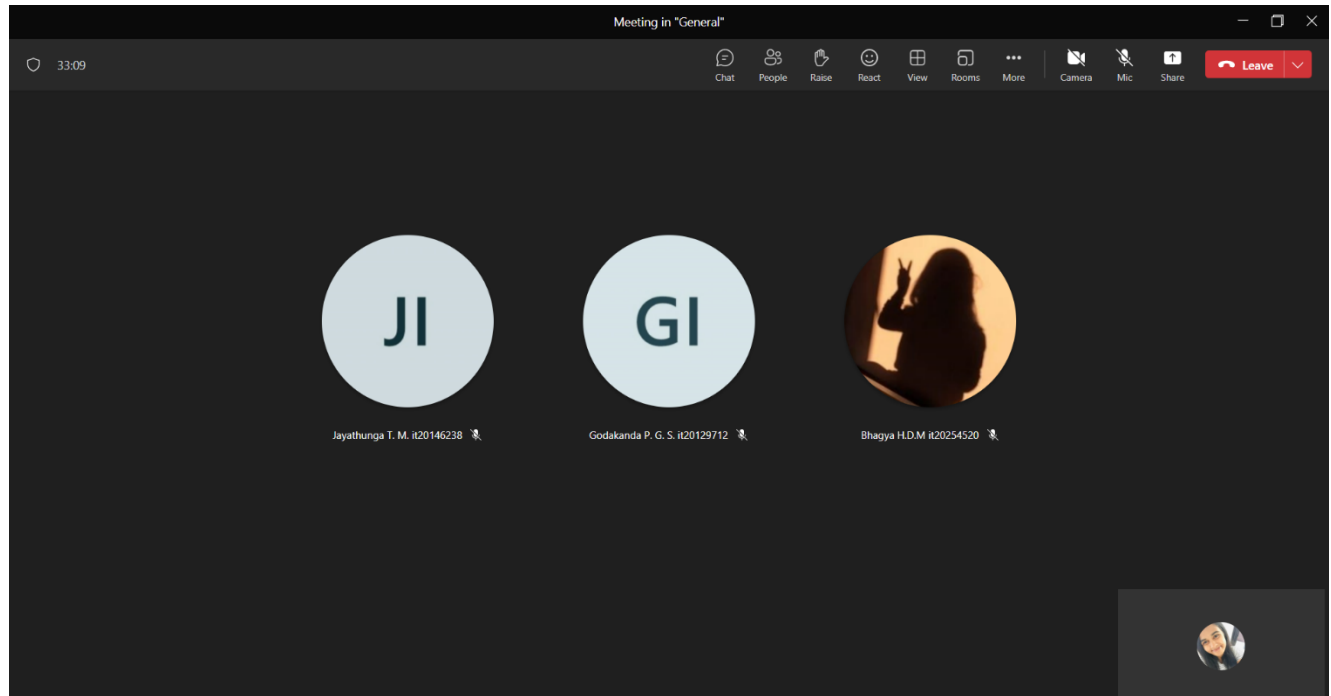


Figure 5: Team Calls in teams

1.5 Teams tasks planner

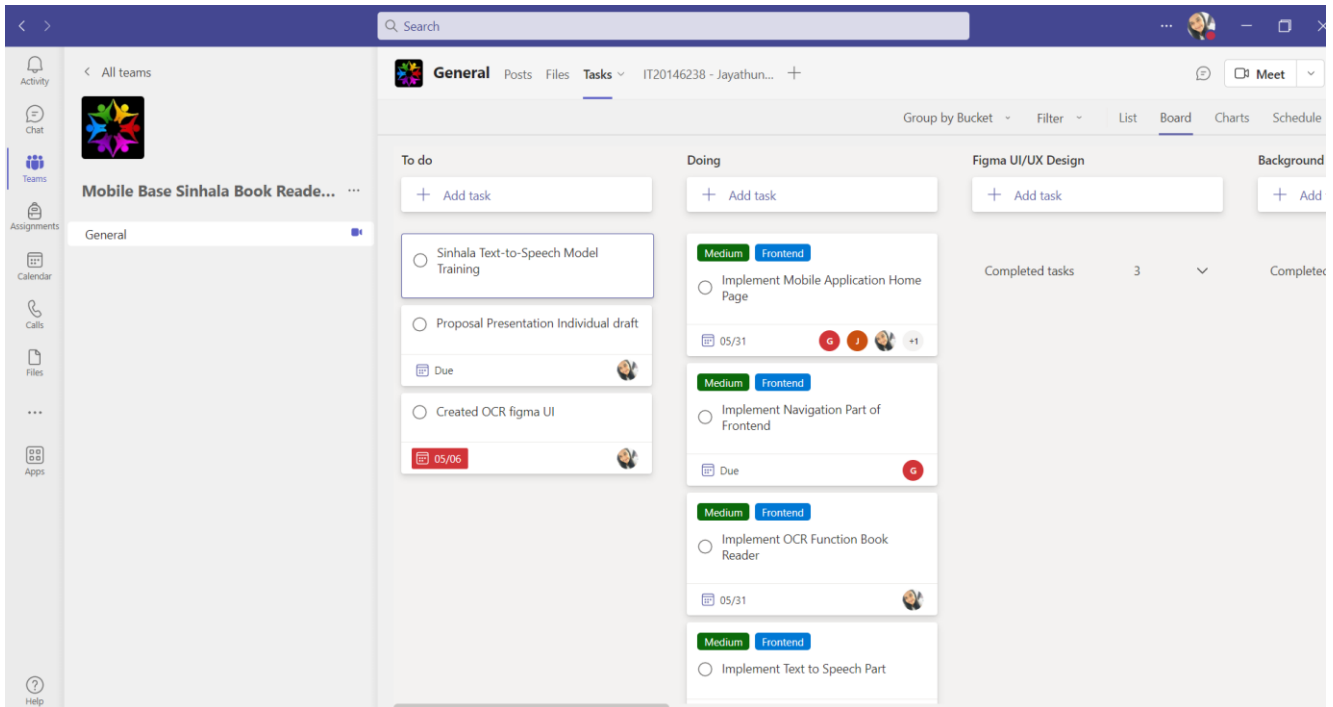


Figure 6: Teams tasks planner

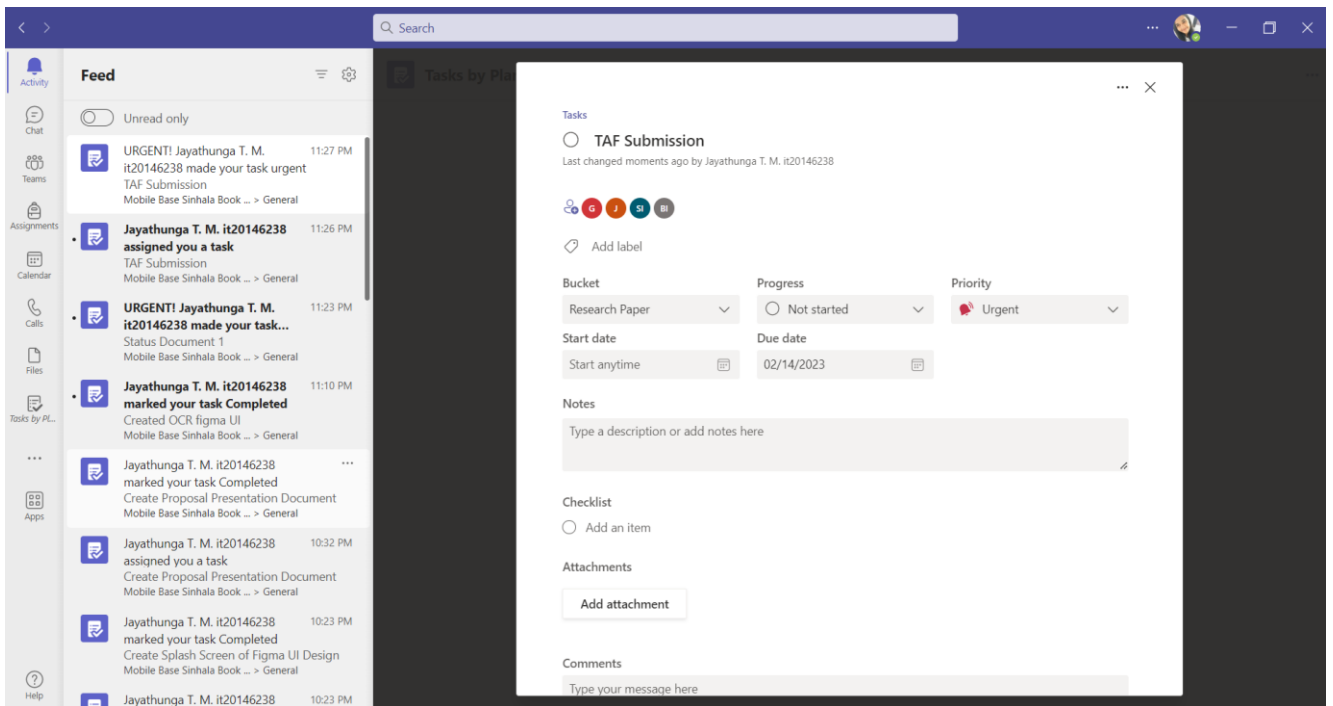


Figure 7: Teams tasks planner

2. Whatsapp group and calls

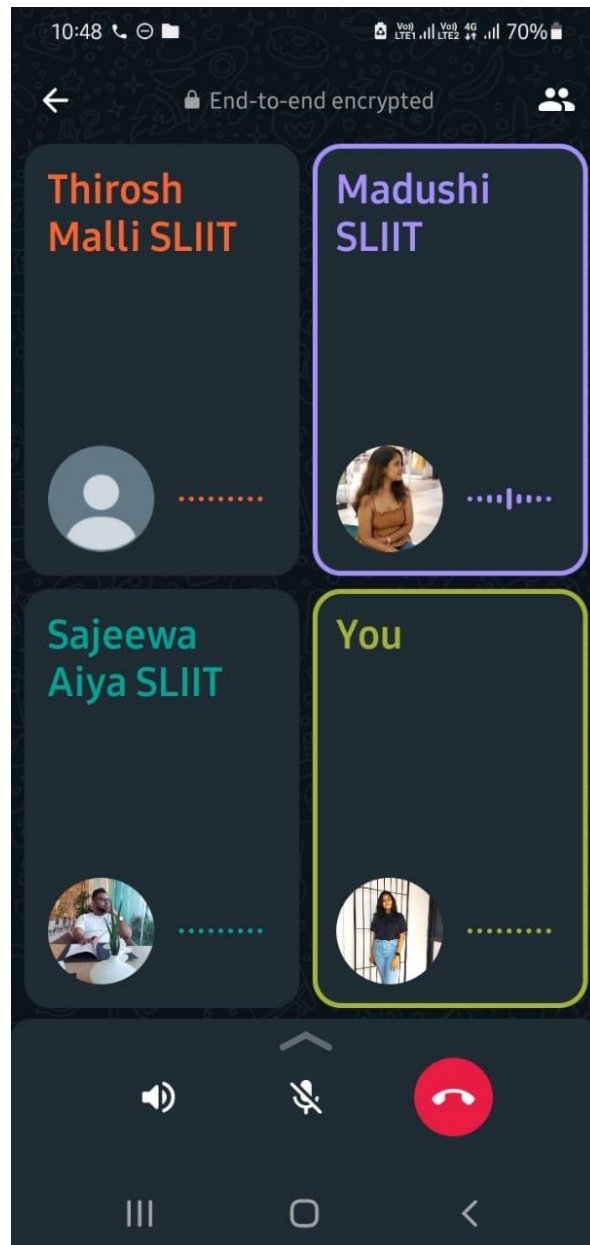


Figure 8: Teams whatsapp calls

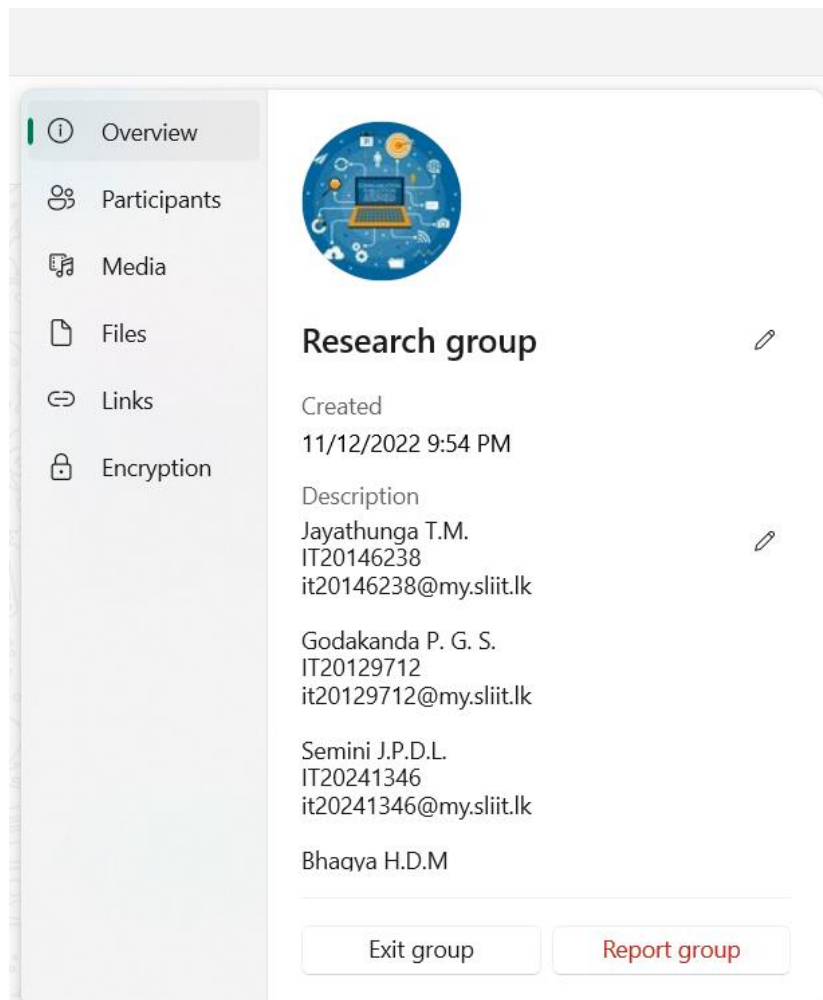


Figure 9: Teams whatsapp group

3. Gantt Chart

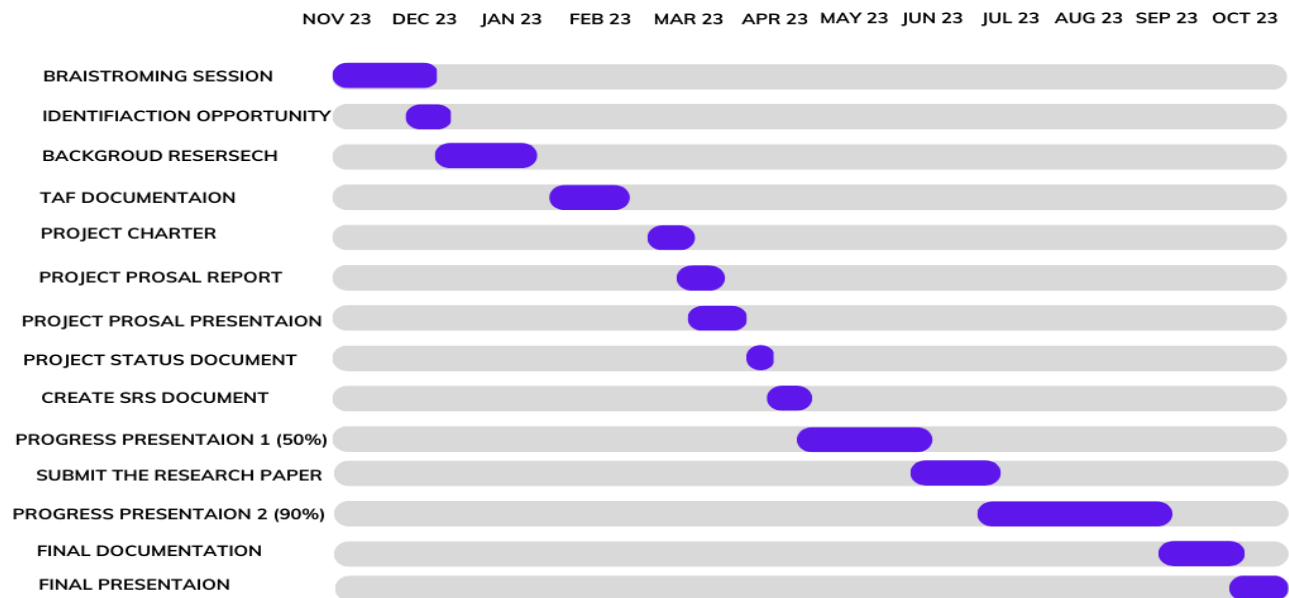


Figure 10: Grant chart

4. Work Breakdown Chart

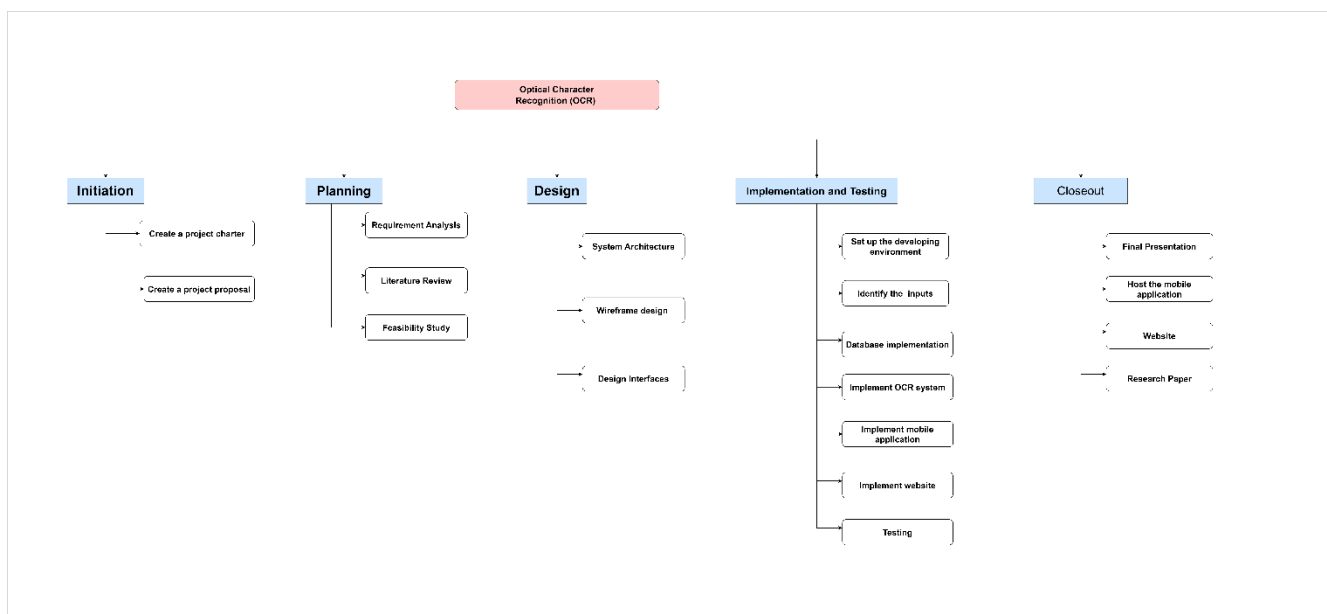


Figure 11: Work Breakdown Chart

5. Gitlab

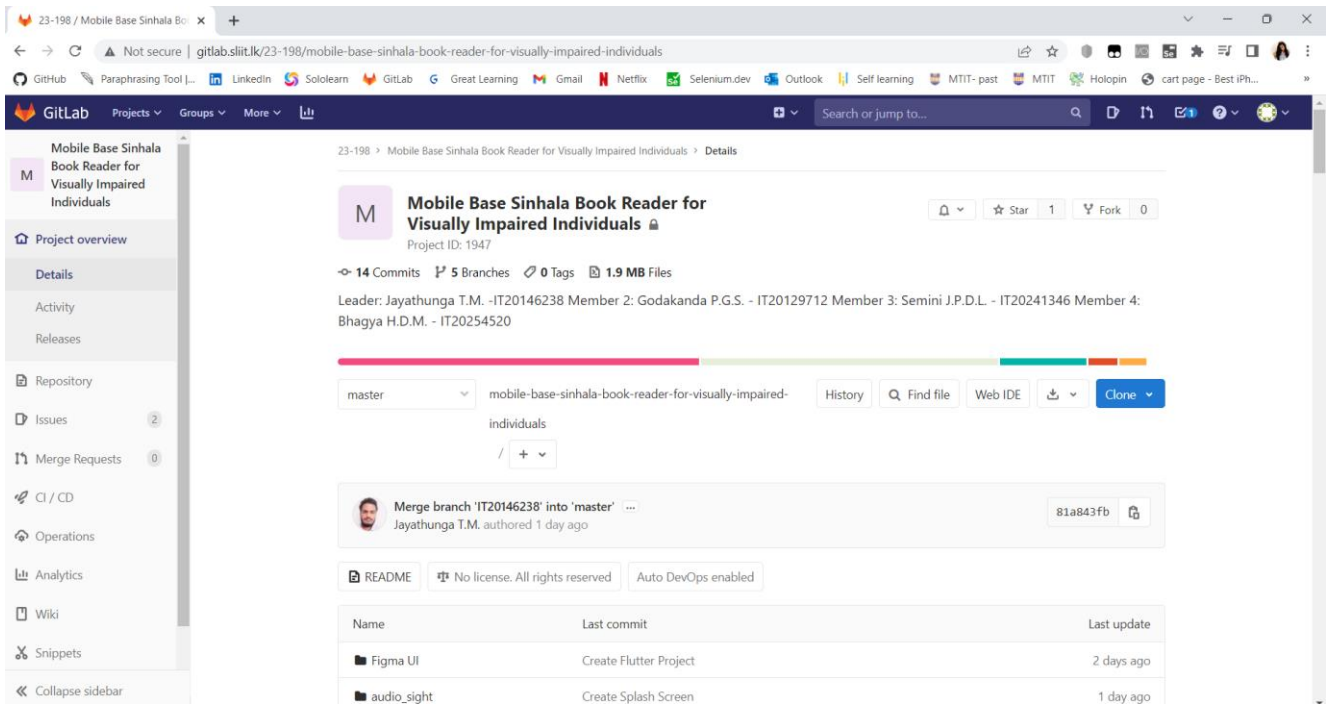


Figure 12:Gitlab

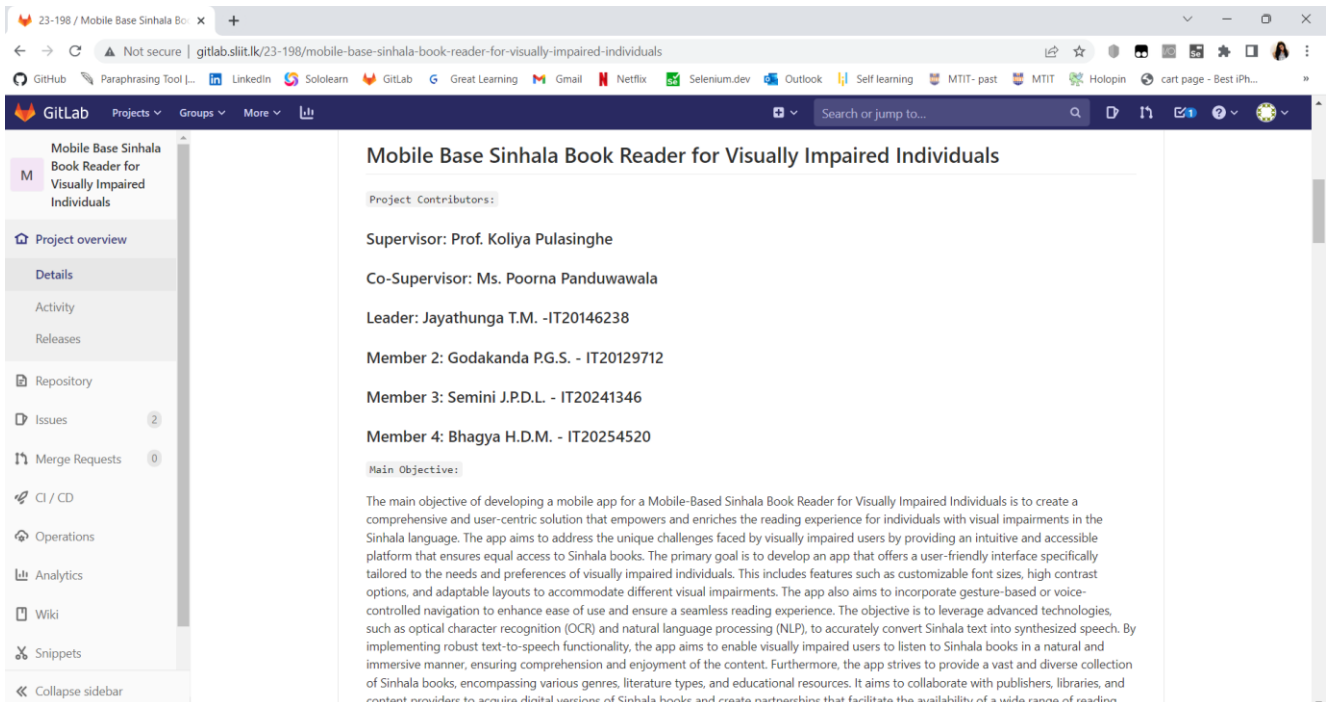


Figure 13:Gitlab


```
In [11]: img_path=r'C:\Users\USER\Desktop\Datasets\Dataset454\valid\1\ad_mlk24.jpg'
img=plt.imread(img_path)
print (img.shape)
imshow(img)
```

(80, 80, 3)

Out[11]: <matplotlib.image.AxesImage at 0x27cf0d2b3d0>

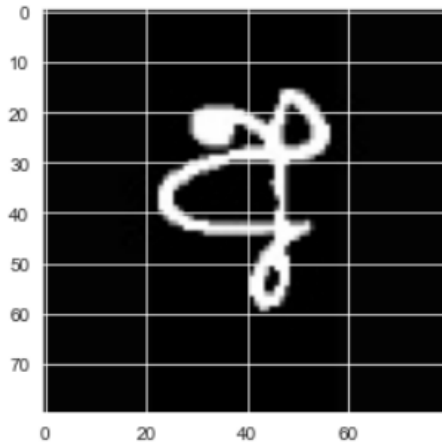


Figure 16:Image resize

```
In [1]: import os
os.environ['TF_CPP_MIN_LOG_LEVEL'] = '2'

import tensorflow as tf
from tensorflow import keras
from tensorflow.keras import backend as K
from tensorflow.keras.layers import Dense, Activation, Dropout, Conv2D, MaxPooling2D, BatchNormalization, Flatten
from tensorflow.keras.optimizers import Adam, Adamax
from tensorflow.keras.metrics import categorical_crossentropy
from tensorflow.keras import regularizers
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.models import Model, load_model, Sequential
import numpy as np
import pandas as pd
import shutil
import time
import cv2 as cv2
from tqdm import tqdm
from sklearn.model_selection import train_test_split
import matplotlib.pyplot as plt
from matplotlib.pyplot import imshow
import seaborn as sns
sns.set_style('darkgrid')
from PIL import Image
from sklearn.metrics import confusion_matrix, classification_report
from IPython.core.display import display, HTML
# stop annoying tensorflow warning messages
import logging
logging.getLogger("tensorflow").setLevel(logging.ERROR)
print ('modules loaded')
```

modules loaded

Figure 17:Backend code part