“Mindගුරු”: MOBILE APPLICATION FOR IMPROVE MENTAL HEALTH FOR KIDS

STATUS DOCUMENT

Project Id – TPM-2023-24-113

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(Supervisor: Mr. Koliya Pulasinghe)

BSc. (Hons) in Information Technology Specializing in Information Technology

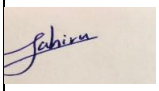
Department of Information Technology

Sri Lanka Institute of Information Technology

Sri Lanka

Declaration

We declare that this is our own work, and this proposal does not incorporate without acknowledgment any material previously submitted for a degree or diploma in any other university or Institute of higher learning and to the best of our knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgment is made in the text.

Name	Student Id	Signature
Gayashan K. L	IT20666774	

The above candidate has carried out research for the bachelor's degree dissertation under my supervision.

Signature: Date: 08/01/2024

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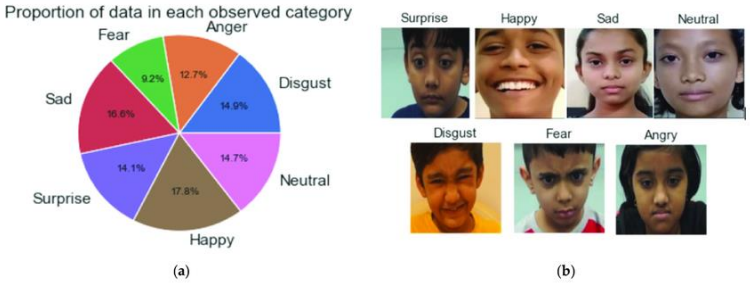
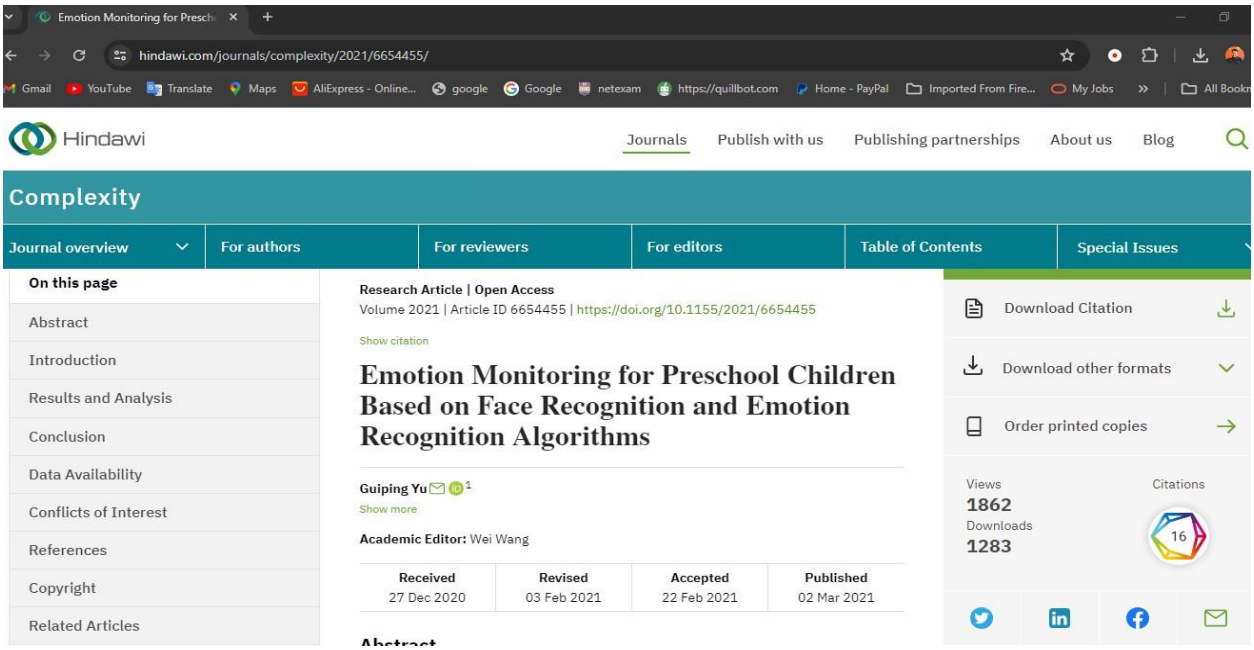
Supervisor: Mr. Koliya Pulasinghe

Figure 1: search research papers and other important information details






Children's recognition of happy
sciencedirect.com/science/article/abs/pii/S002209651930517X
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Abstract
Introduction
Section snippets
References (68)
Cited by (18)
Journal of Experimental Child Psychology
Volume 197, September 2020, 104881
Children's recognition of happy, sad, and angry facial expressions across emotive intensities
Sarah E. Garcia , Erin C. Tully
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https://doi.org/10.1016/j.jecp.2020.104881
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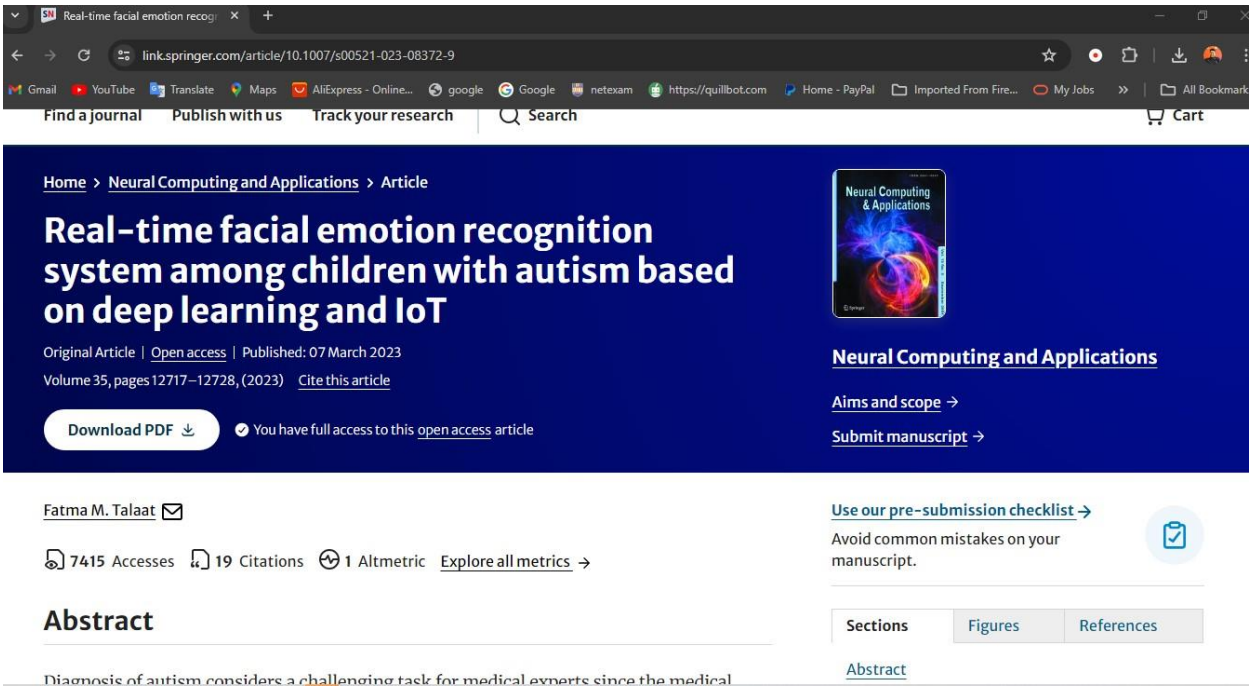
Developmental changes in the critical information used for facial expression…
Cognition, Volume 166, 2017, pp. 56-66
Louise Ewing, ..., Marie L. Smith
A facial expression of pax: Assessing children's "recognition" of emotion fro…
Journal of Experimental Child Psychology, Volume...
Nicole L. Nelson, James A. Russell
A wavelet-based approach to emotion classification using EDA signals
Expert Systems with Applications, Volume 112, 201...
Huanghao Feng, ..., Mohammad H. Mahoor
FEEDBACK


Real-time facial emotion recogi
link.springer.com/article/10.1007/s00521-023-08372-9
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Home > Neural Computing and Applications > Article
Real-time facial emotion recognition system among children with autism based on deep learning and IoT
Original Article | Open access | Published: 07 March 2023
Volume 35, pages 12717–12728, (2023) Cite this article
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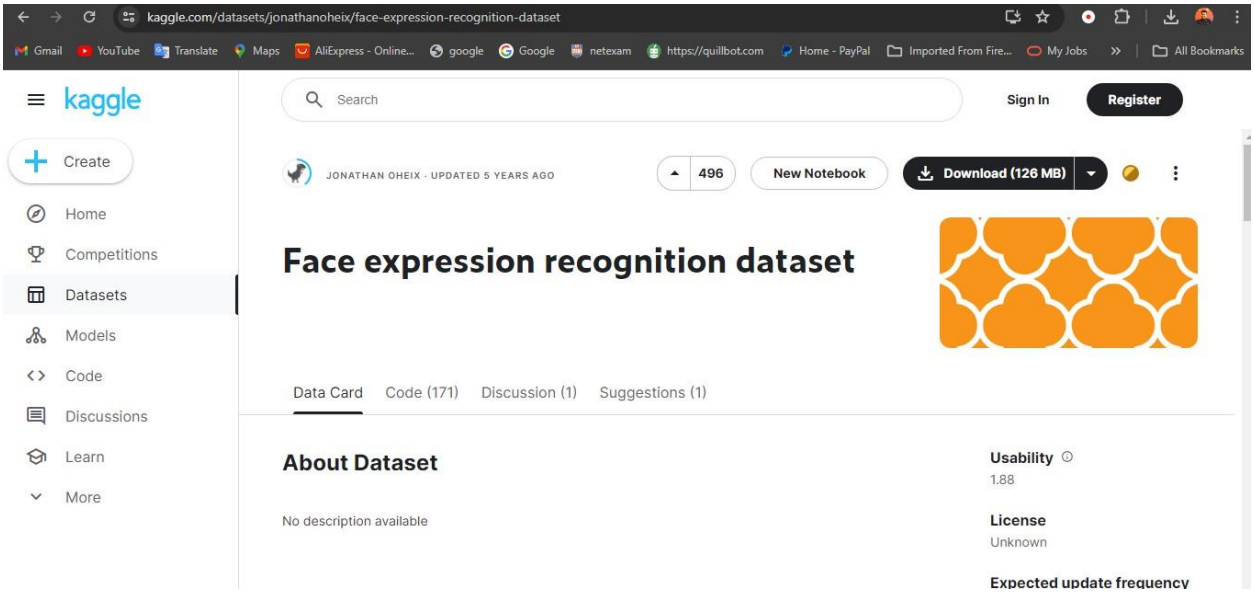
Avoid common mistakes on your manuscript.
Sections
Figures
References
Abstract
Abstract
Diagnosis of autism considers a challenging task for medical experts since the medical

Figure 2: Requesting other information details.



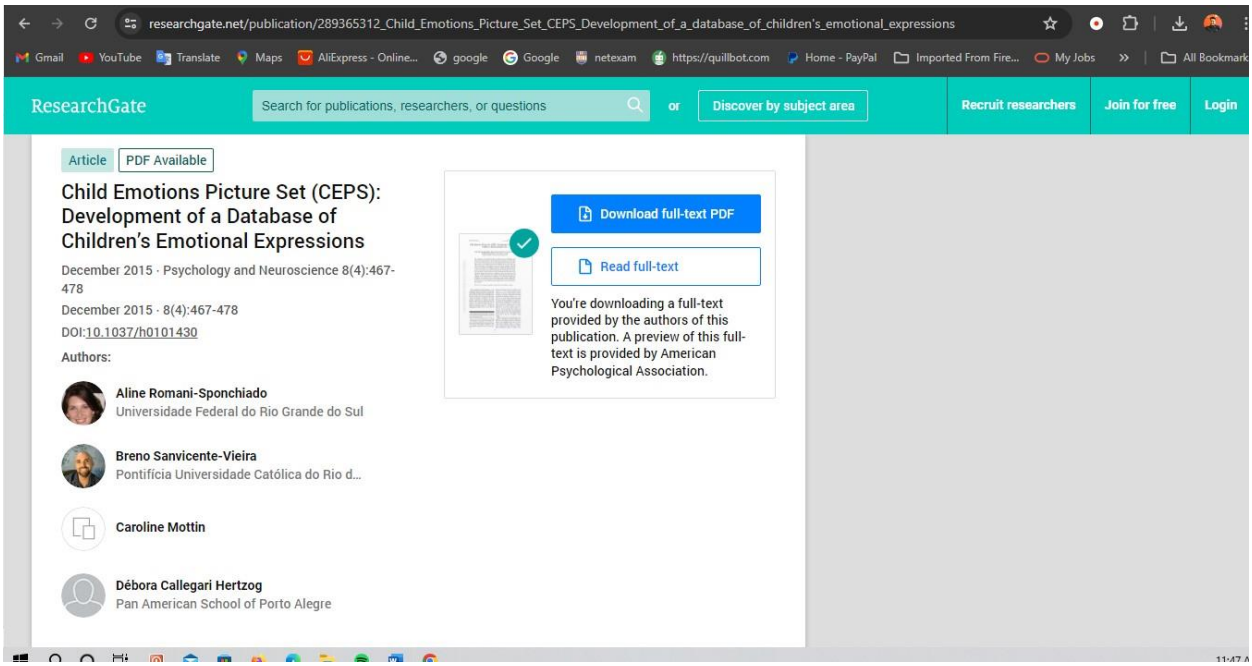


Figure 3: Arrange group meetings via teams.

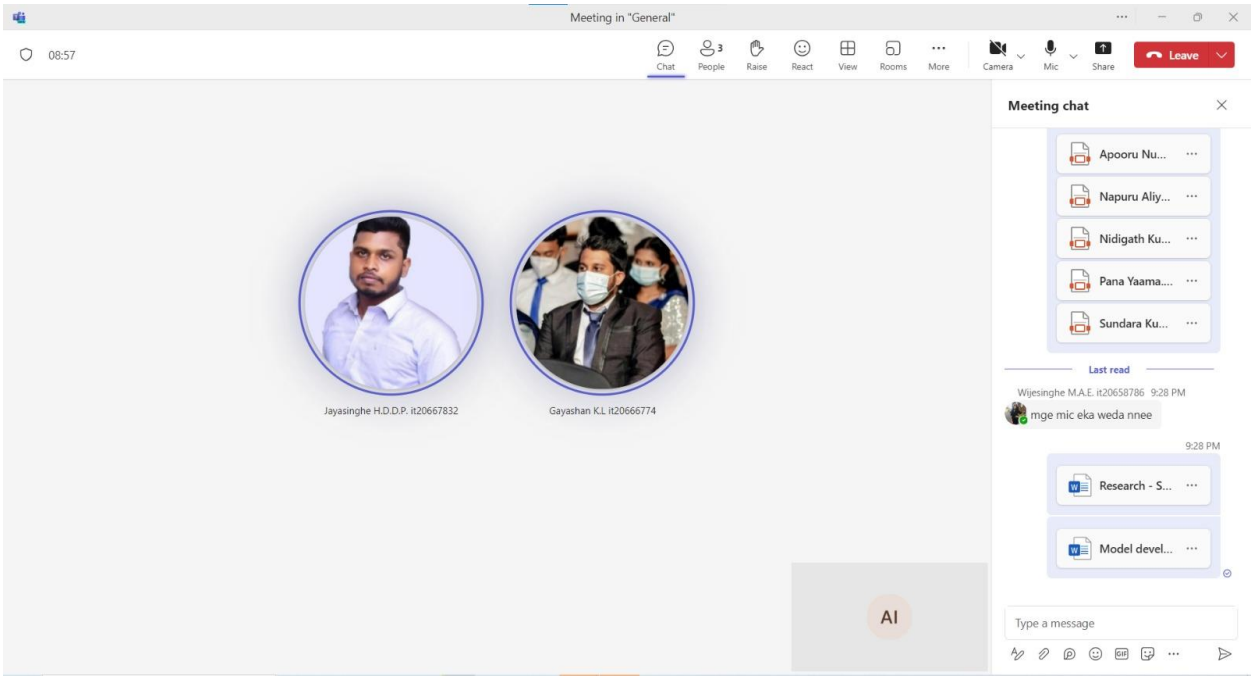
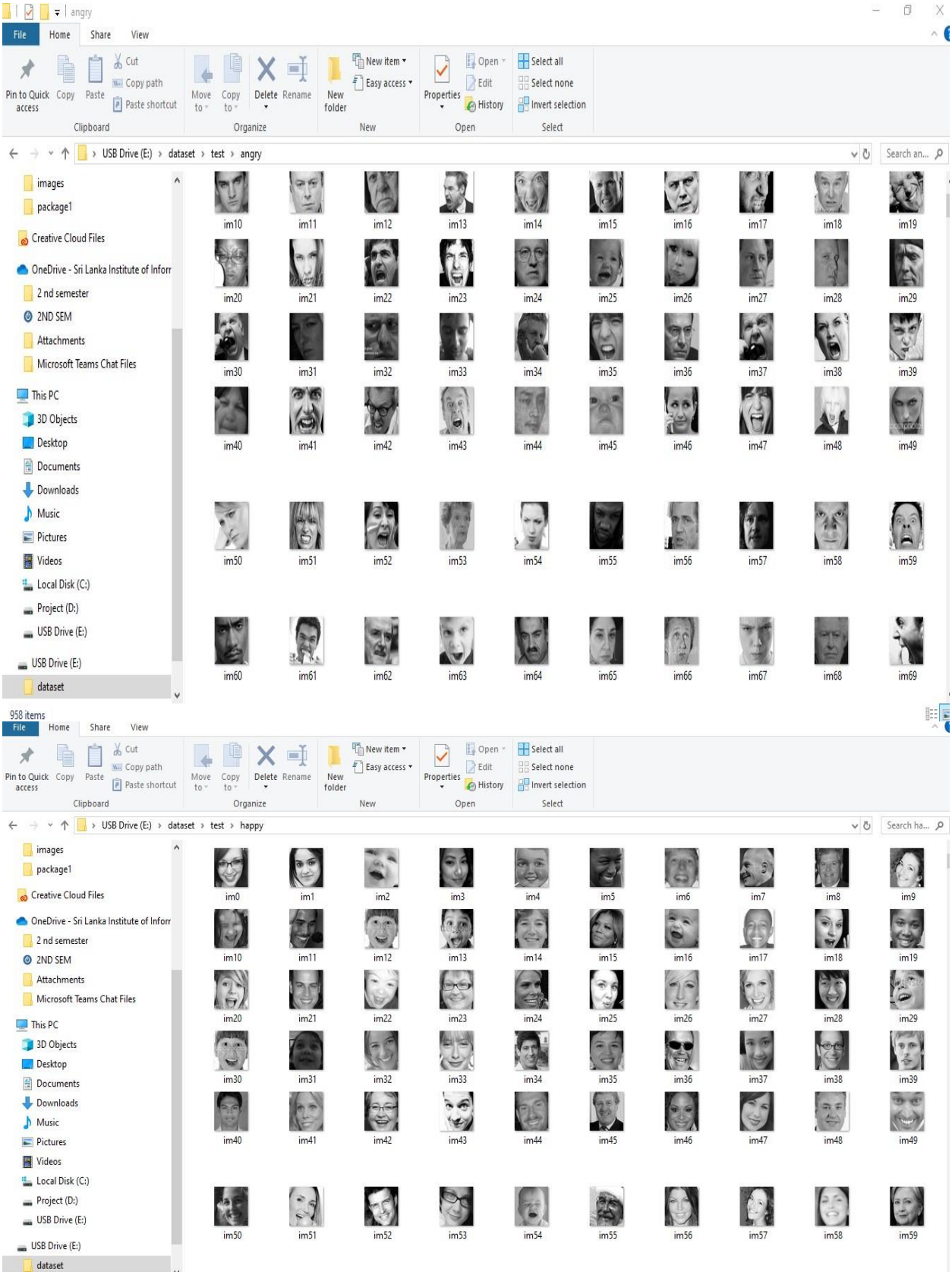
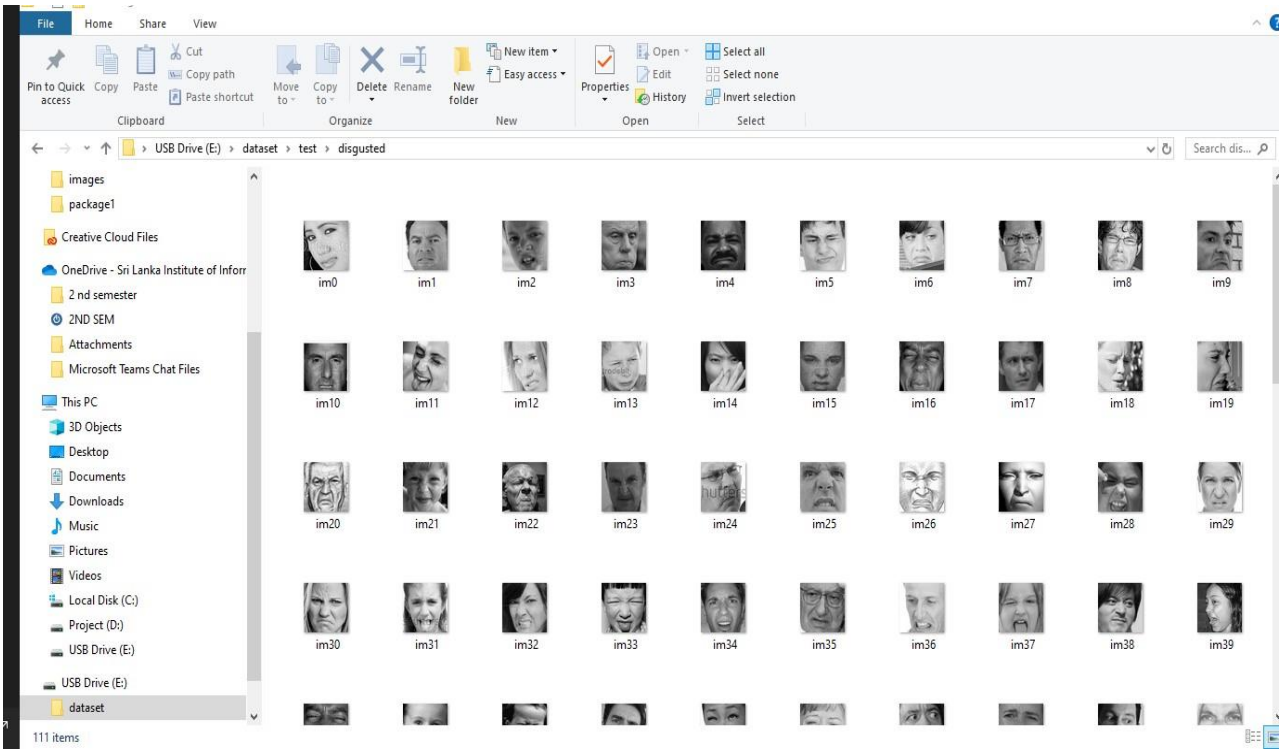


Figure 4:Data sets




File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
New folder
New item
Easy access
Organize
New
Properties
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Edit
History
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Select all
Select none
Invert selection
Select
USB Drive (E:) › dataset › test › disgusted
Search dis...
images
package1
Creative Cloud Files
OneDrive - Sri Lanka Institute of Inforr
2 nd semester
2ND SEM
Attachments
Microsoft Teams Chat Files
This PC
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Pictures
Videos
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Project (D:)
USB Drive (E:)
USB Drive (E:)
dataset
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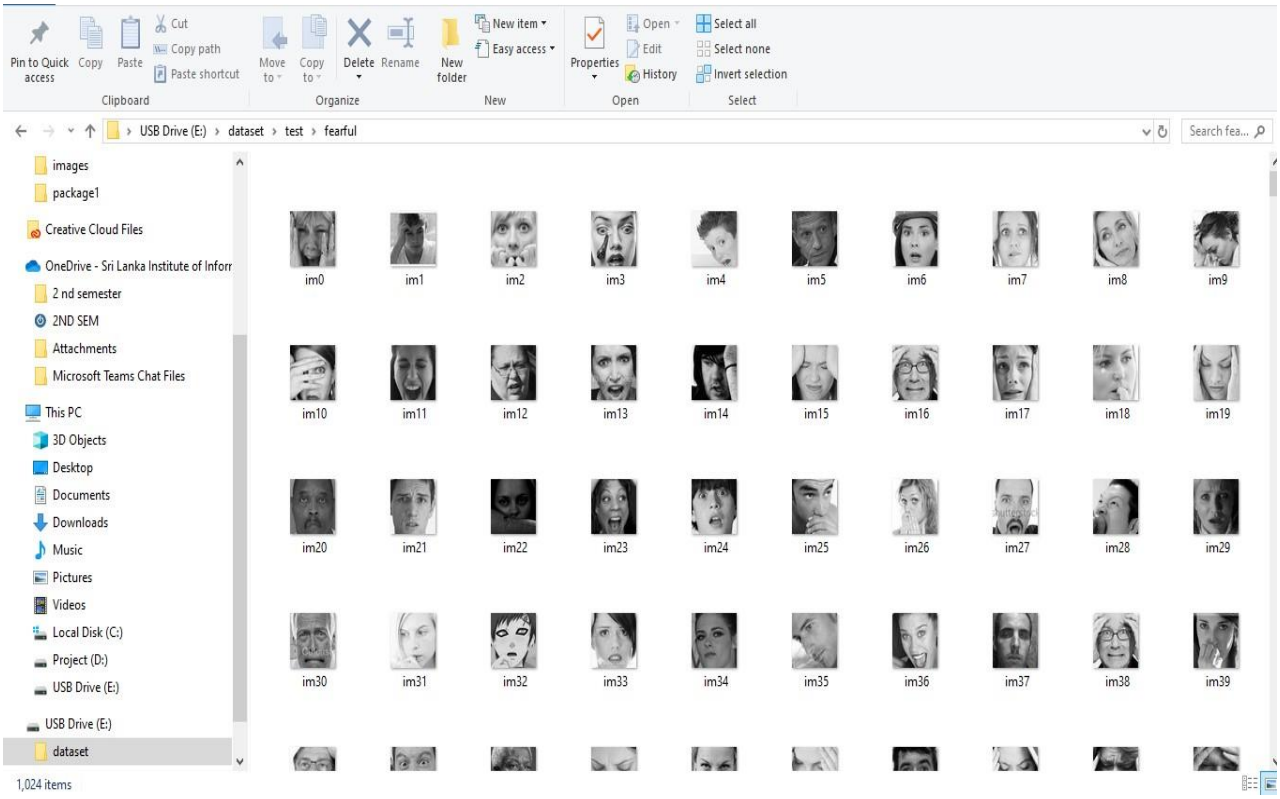
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
New folder
New item
Easy access
Organize
New
Properties
Open
Edit
History
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Select all
Select none
Invert selection
Select
USB Drive (E:) › dataset › test › fearful
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package1
Creative Cloud Files
OneDrive - Sri Lanka Institute of Inforr
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Microsoft Teams Chat Files
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Project (D:)
USB Drive (E:)
USB Drive (E:)
dataset
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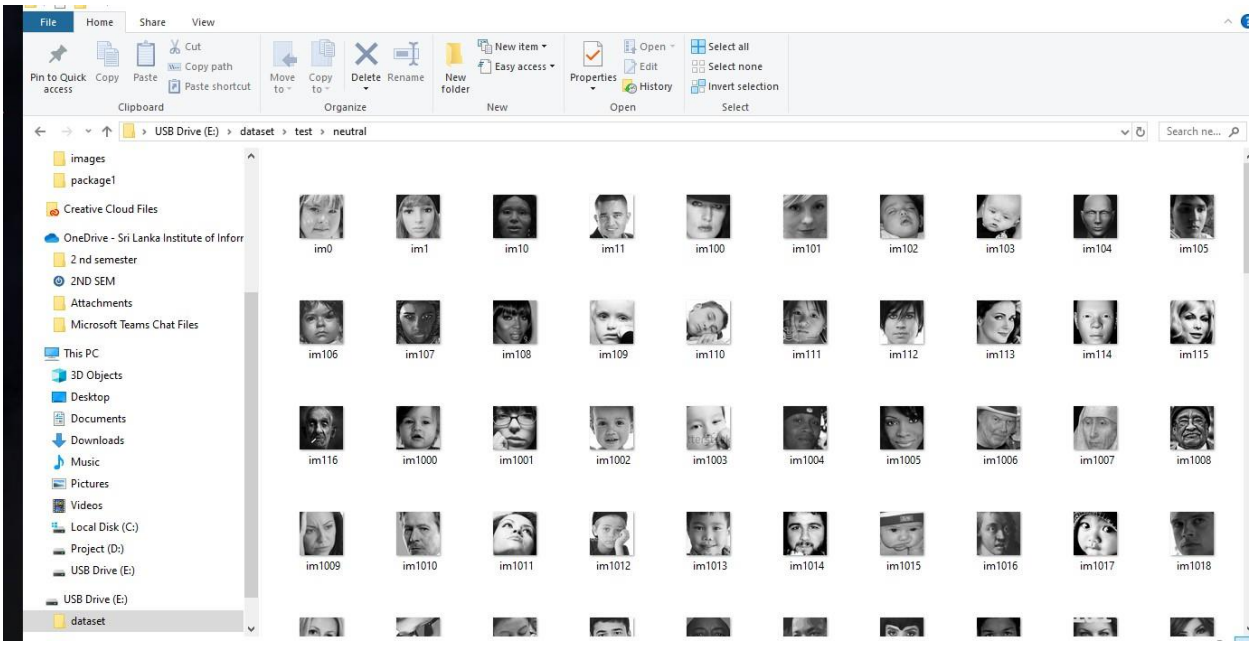
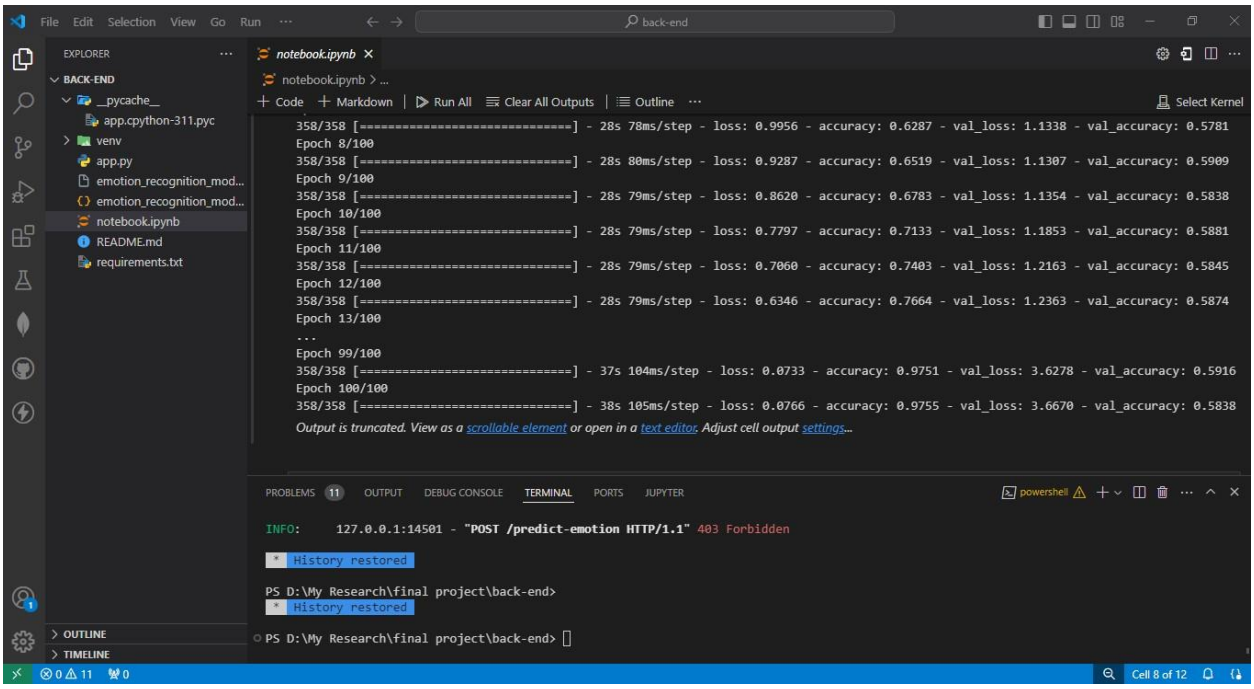
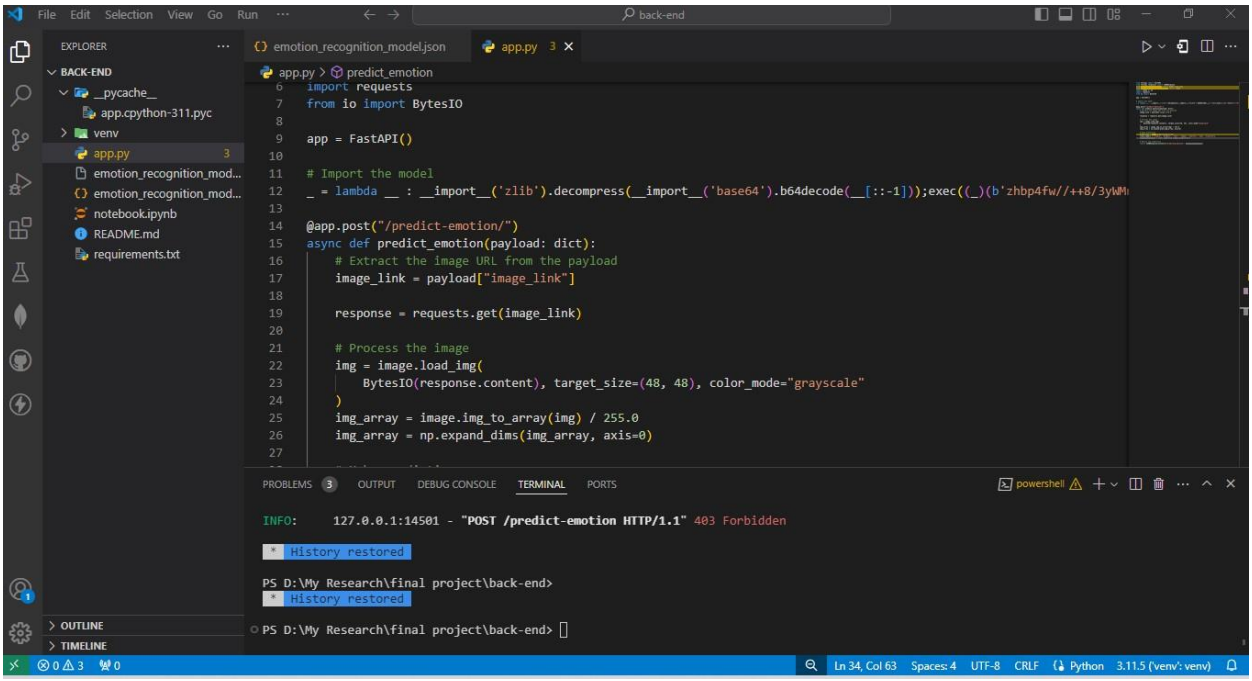
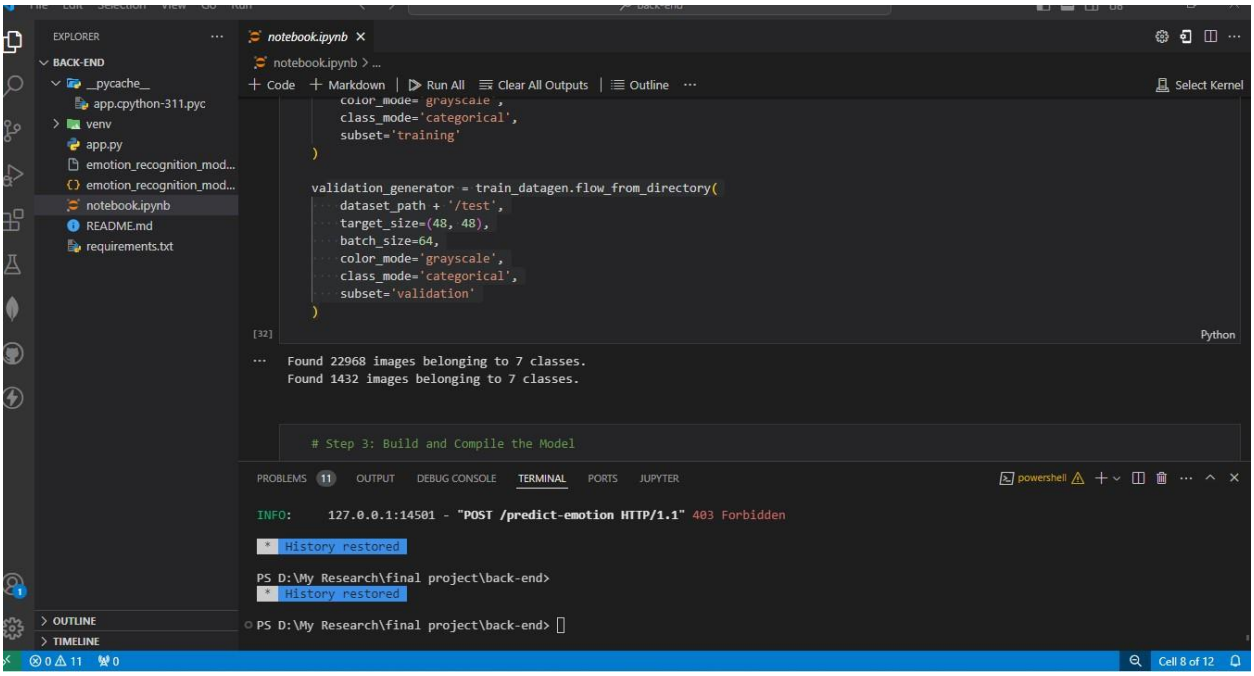


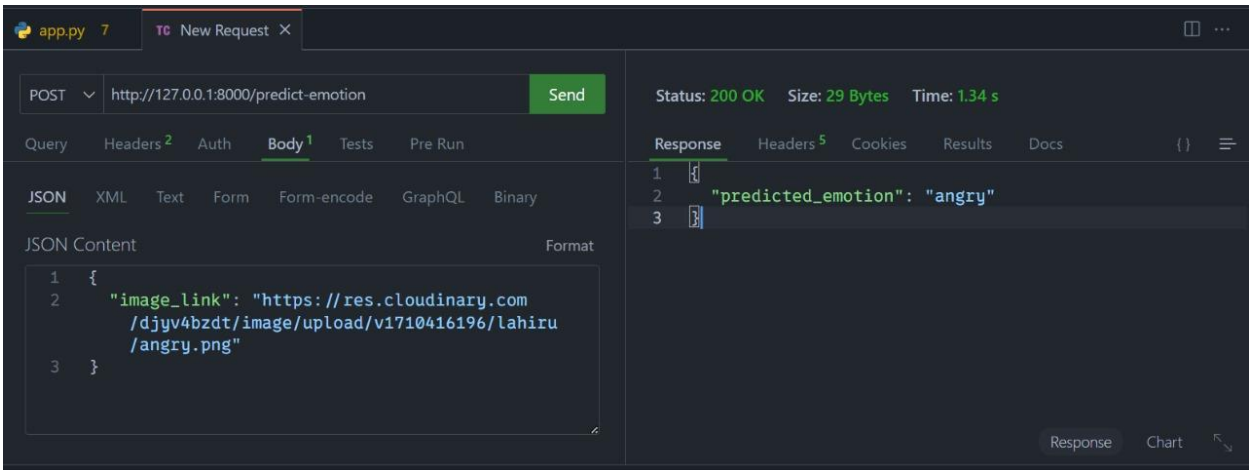
Figure 5: Data modeling




File Edit Selection View Go Run
back-end
EXPLORER
BACK-END
__pycache__
app.cpython-311.pyc
venv
app.py
emotion_recognition_mod...
emotion_recognition_mod...
notebook.ipynb
README.md
requirements.txt
emotion_recognition_model.json
app.py 3
app.py > predict_emotion
import requests
from io import BytesIO
app = FastAPI()
# Import the model
_ = lambda __ : __import__('zlib').decompress(__import__('base64').b64decode(__[::-1]));exec((_)(b'zhbp4fw//++8/3yWM
@app.post("/predict-emotion/")
async def predict_emotion(payload: dict):
# Extract the image URL from the payload
image_link = payload["image_link"]
response = requests.get(image_link)
# Process the image
img = image.load_img(
BytesIO(response.content), target_size=(48, 48), color_mode="grayscale"
)
img_array = image.img_to_array(img) / 255.0
img_array = np.expand_dims(img_array, axis=0)
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
INFO: 127.0.0.1:14501 - "POST /predict-emotion HTTP/1.1" 403 Forbidden
History restored
PS D:\My Research\final project\back-end>
History restored
PS D:\My Research\final project\back-end>
OUTLINE
TIMELINE
Ln 34, Col 63 Spaces: 4 UTF-8 CRLF Python 3.11.5 ('venv': venv)


EXPLORER
BACK-END
__pycache__
app.cpython-311.pyc
venv
app.py
emotion_recognition_mod...
emotion_recognition_mod...
notebook.ipynb
README.md
requirements.txt
notebook.ipynb
notebook.ipynb > ...
Code Markdown Run All Clear All Outputs Outline
Select Kernel
color_mode='grayscale',
class_mode='categorical',
subset='training'
)
validation_generator = train_datagen.flow_from_directory(
dataset_path + '/test',
target_size=(48, 48),
batch_size=64,
color_mode='grayscale',
class_mode='categorical',
subset='validation'
)
[32]
Python
Found 22968 images belonging to 7 classes.
Found 1432 images belonging to 7 classes.
Step 3: Build and Compile the Model
PROBLEMS 11 OUTPUT DEBUG CONSOLE TERMINAL PORTS JUPYTER
powershell
INFO: 127.0.0.1:14501 - "POST /predict-emotion HTTP/1.1" 403 Forbidden
History restored
PS D:\My Research\final project\back-end>
History restored
PS D:\My Research\final project\back-end>
OUTLINE
TIMELINE
Cell 8 of 12

➢ **Figure 6: Testing my training model accuracy with picture.**



<u>Figure 7:</u> Introduce mobile app for teachers & children.

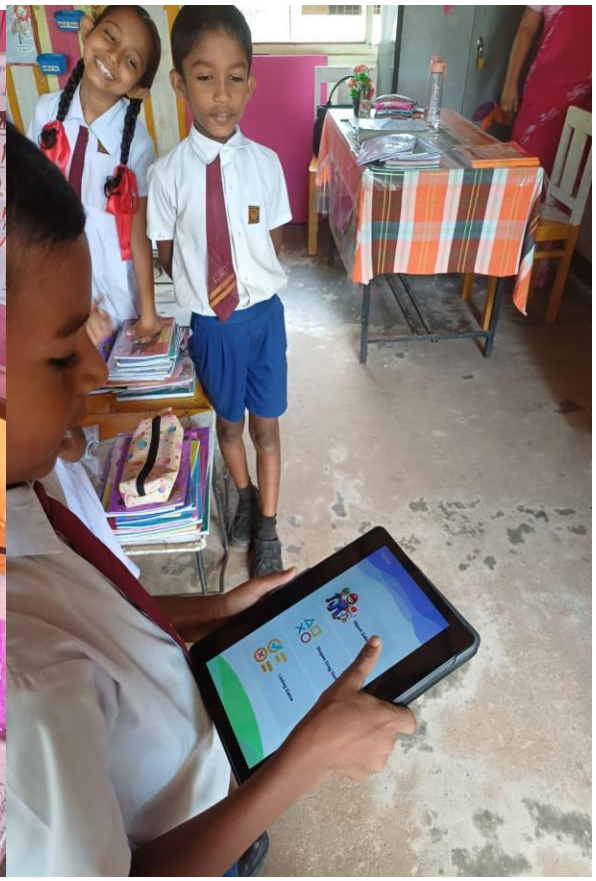


Figure 8: Gantt chart