# Smart Travel Recommendation and Tourism Support Mobile Based System



Group ID: 2023-308

Status Document II

# Sri Lanka Institute of Information Technology

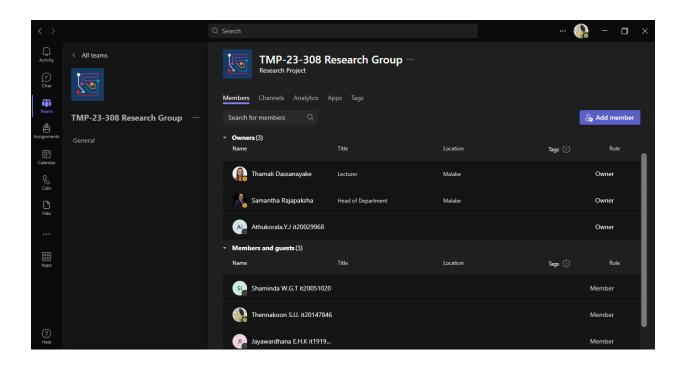
B.Sc. Honors Degree in Information Technology Specialized in Information Technology

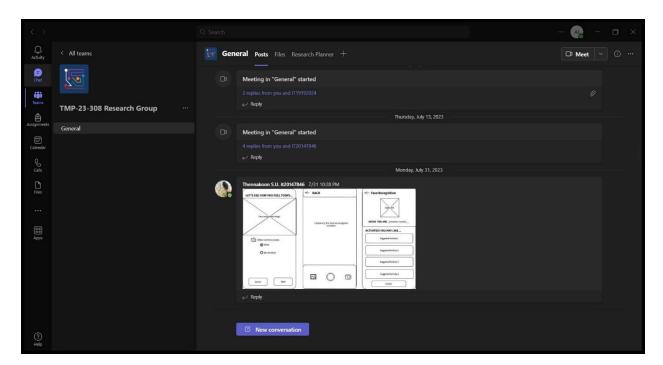
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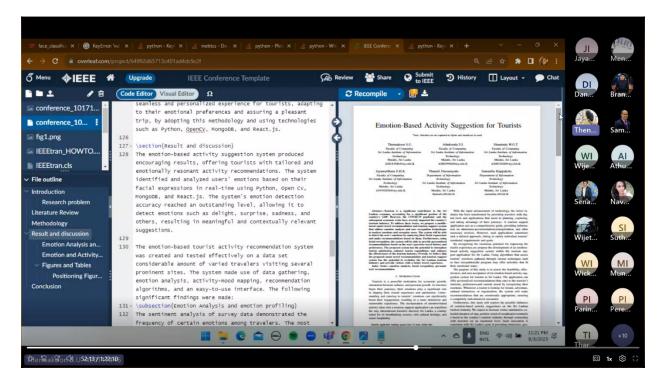
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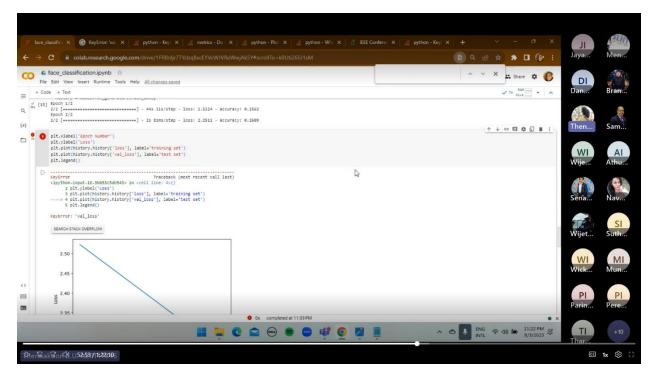
### 1 Microsoft Teams Group



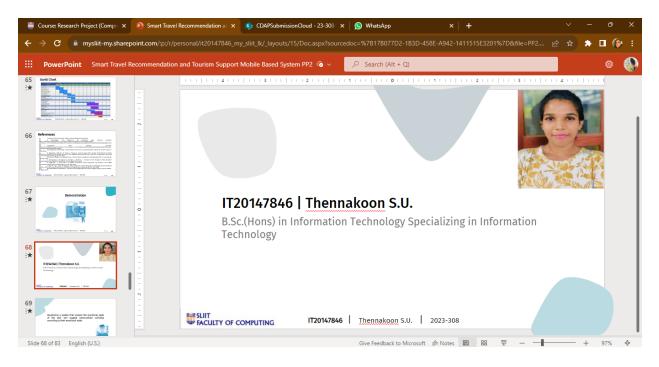


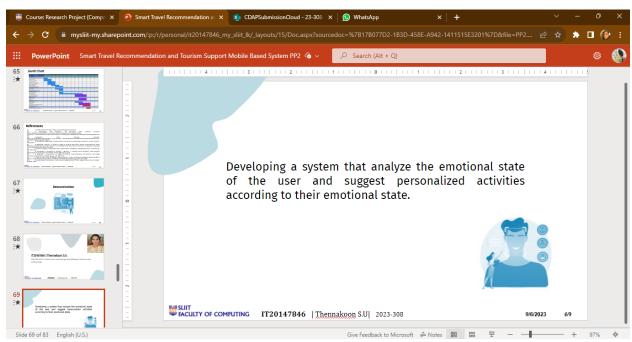
- Meetings were held as much as possible to discuss issues that were occurred during implementation.
- Present the progress of task have been done during the Co-supervisor meeting

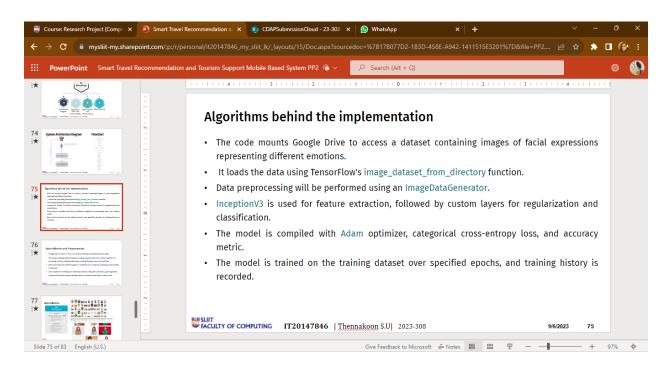


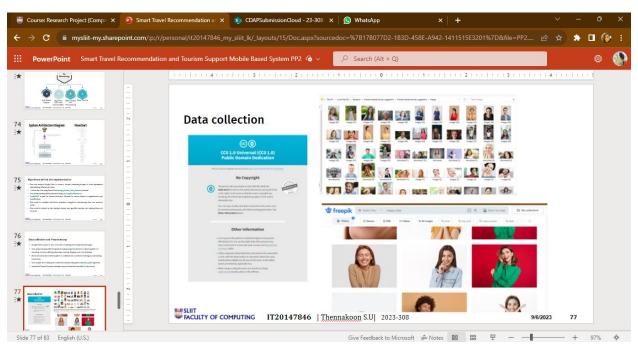


## 2 Creating Progress Presentation II









## 3 Implementing Backend

• Implementation of the model by using google colab platform



```
Tile Edit Selection View Go Run Terminal Help
                                                                                                                         app.py - emotion_model - Visual Studio Code
                                                                                                                                                                                                                                                       ф
         > EMOTION_MODEL
                                                                              Appy of muse.

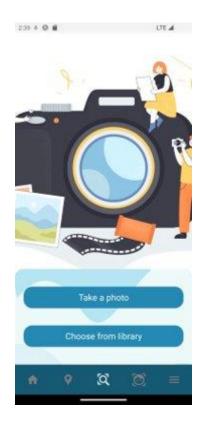
From flask import Flask, request, render_template, jsonify import numpy as np

from PIL import Image

from io import Bytesio
 > OUTLINE
        > TIMELINE
                                                                               from tensorflow.keras.models import load_model
ź,
                                                                              app = Flask(__name__)
model = load_model('face_model.h5')
class_map = {0: 'Angry', 1: 'Happy', 2: 'Neutral', 3: 'Sad', 4: 'Surprise'}
                                                                              @app.route(['/'[)]
def index():
    return render_template('index.html')
                                                                              @app.route('/predict', methods=['POST'])
def predict():
    try:
                                                                                            :
img_file = request.files['image']
img = Image.open(img_file.stream).convert("RGB") # Convert to RGB format
img = img.resize(ig0, 80)) # Resize to the model's input size
img_array = np.array(img)
img_processed = np.expand_dims(img_array, axis=0)
img_processed = img_processed / 255.0
                                                                                           prediction = model.predict(img_processed)
emotion_label = class_map[np.argmax(prediction)]
(8)
                                                                                     except Exception as e:
    return jsonify({'error': str(e)})
€£3
                                                                                                                                                                                                       Ln 11, Col 16 Spaces: 4 UTF-8 CRLF ( Python 3.11.5 64-bit 👨 🚨
```

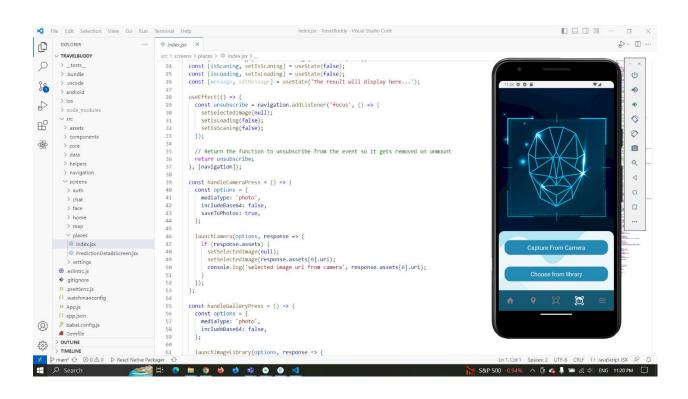


#### 4 Implementing Frontend







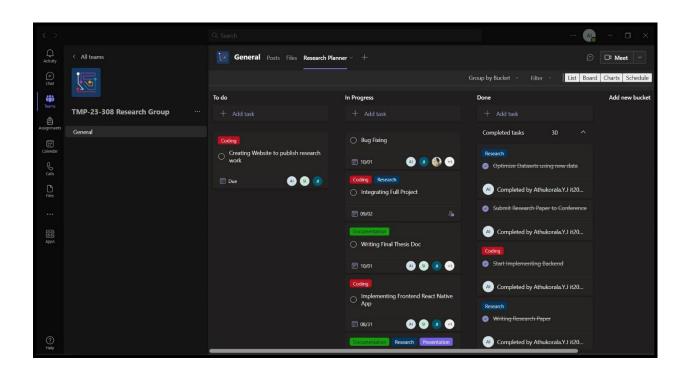


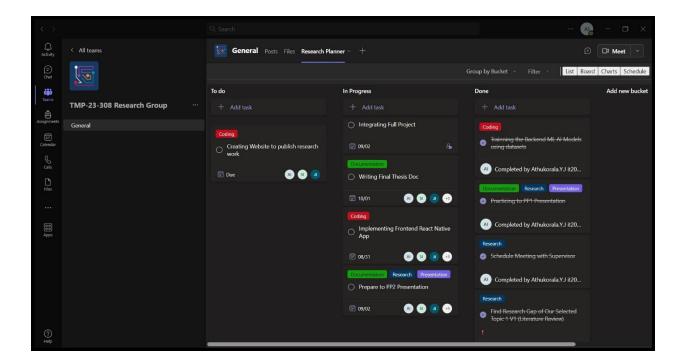
## 5 Updated Gantt Chart

	2022		2023												
Task Name	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Planning Phase															
Initial discussion with the supervisor															
Feasibility study															
Requirement analysis															
Literature review															
System overview diagram															
Topic assesment form															
Project proposal															
Prepaering SRS Document															
Software Design Phase															
UML diagram															
Design wireframe & mock-ups															
mplementation Phase															
Collection dataset															
Training Model															
Frontend development															
Backend development															
Testing Phase															
System Training															
Bugfixing															
Occumentation Phase															
Research paper															
Final report															
Project status document & Log book															
Final Presentation & Viva															
Integration Phase															
Intigrate backend and frontend															

Completed
In progress
Not started yet

#### 6 Work load allocation





## 7 Future Development and Tasks

- 1. Thesis and final report writing
- 2. Final Presentation

Current Progress – 90%