

Smart Travel Recommendation and Tourism Support Mobile Based System



Group ID: 2023-308

Status Document I

Sri Lanka Institute of Information Technology

B.Sc. Honors Degree in Information Technology

Specialized in Information Technology

Thennakoon S.U

IT20147846

Contents

1	Microsoft Teams Group	3
2	Creating Progress Presentation and Implementing Backend Model	5
3	Updated Gantt Chart.....	7
4	Work load allocation.....	7
5	Future Development and Tasks	9

1 Microsoft Teams Group

Search

< All teams

TMP-23-308 Research Group ...

General

Members Channels Analytics Apps Tags

Search for members

Owners (3)

Name	Title	Location	Tags	Role
Thamali Dassanayake	Lecturer	Malabe		Owner
Samantha Rajapaksha	Head of Department	Malabe		Owner
Athukorala.Y.J. it20029968				Owner

Members and guests (3)

Name	Title	Location	Tags	Role
Shaminda W.G.T it20051020				Member
Thennakoon S.U. it20147846				Member
Jayawardhana E.H.K it1919...				Member

Search

< All teams

TMP-23-308 Research Group ...

General

General Posts Files Research Planner +

Meet

Reply

Monday, March 20, 2023

Meeting in "General" started

Collapse all

Thennakoon S.U. it20147846 3/20 8:17 AM

Project Proposal Template.docx

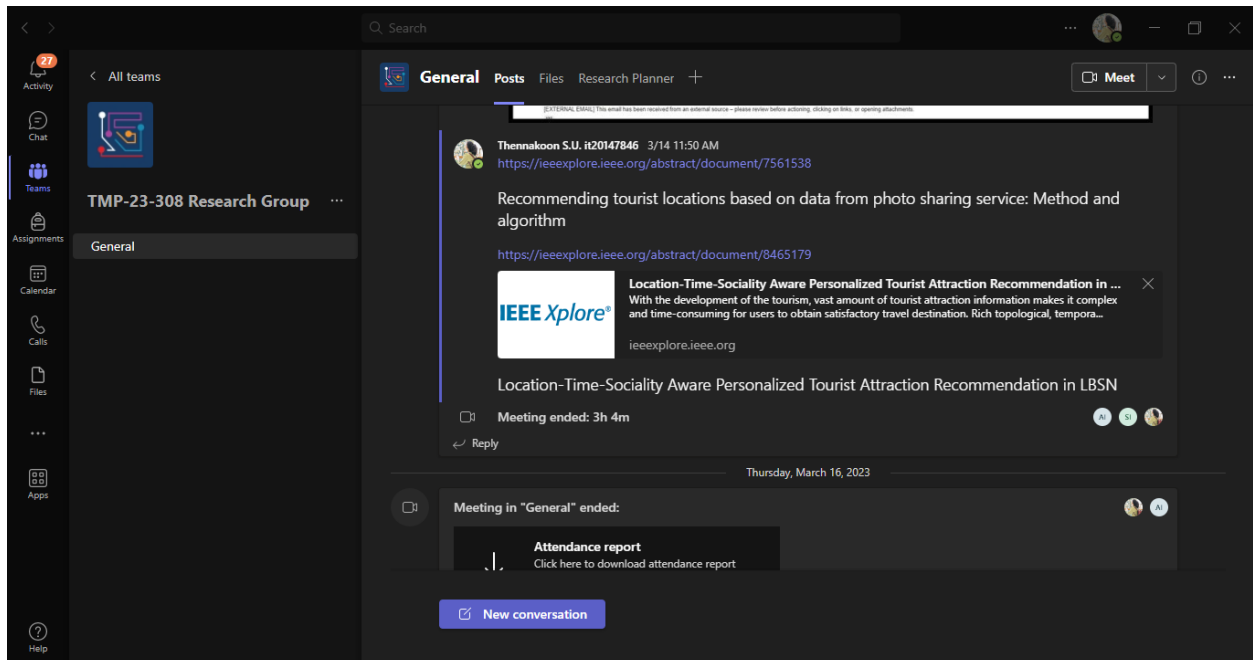
Thennakoon S.U. it20147846 3/20 11:53 AM

IT4010-TAF - Smart Travel recommendation and Tour...

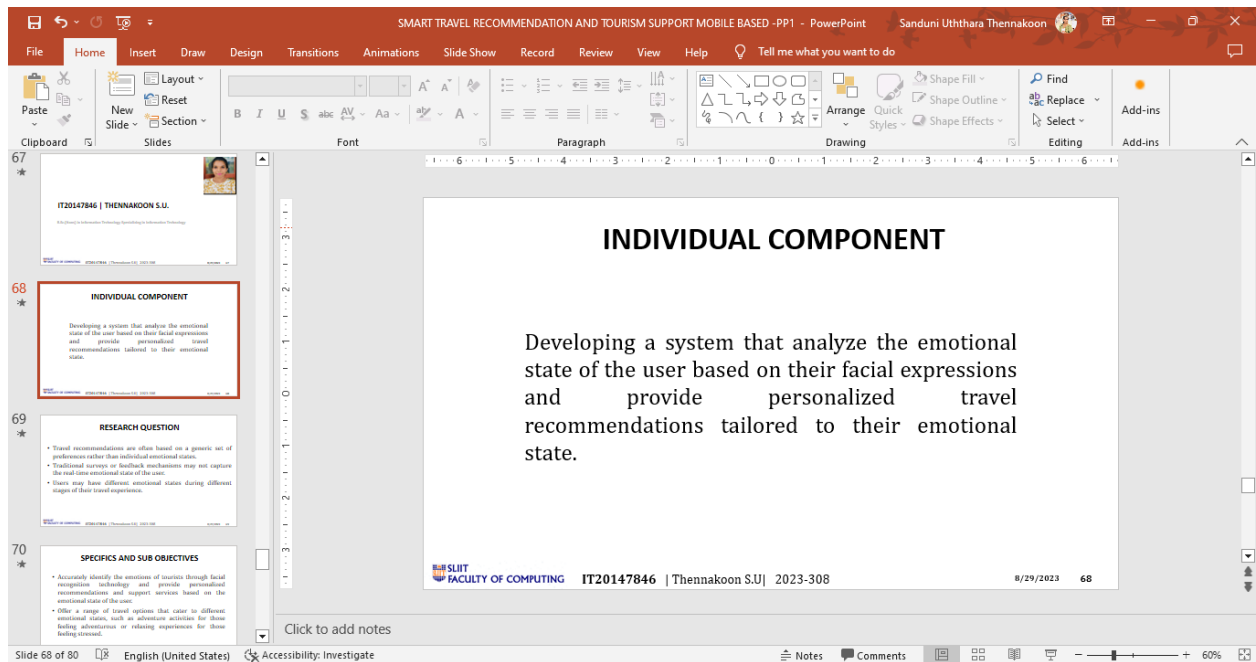
Jayawardhana E.H.K it19192024 3/20 2:09 PM

New conversation

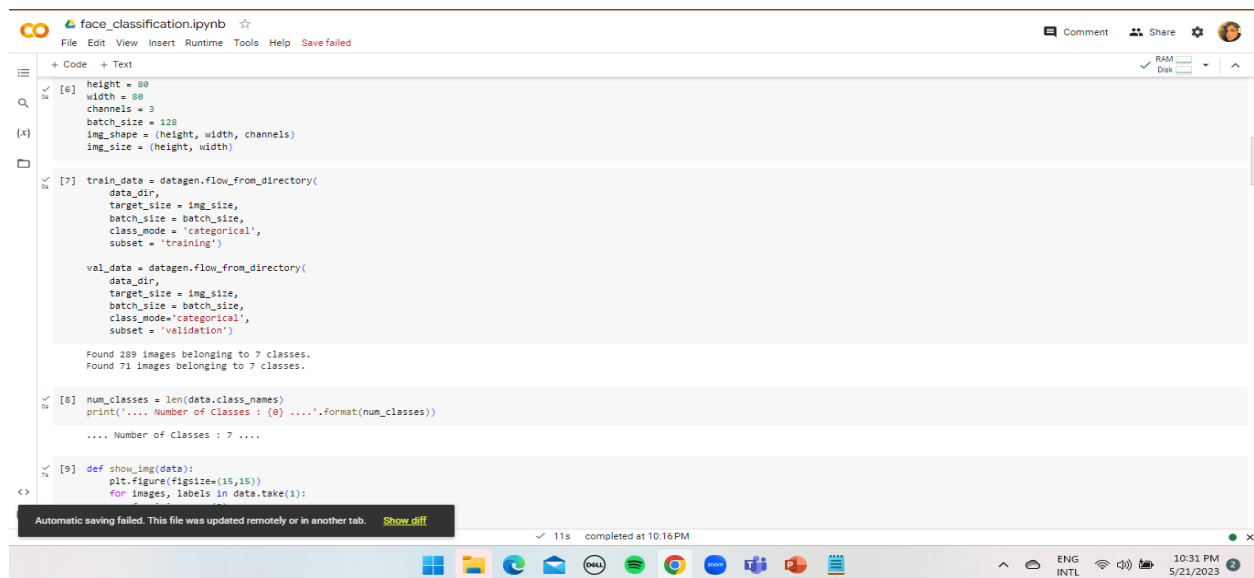
- Meetings were held as much as possible to discuss issues that were occurred during implementation.



2 Creating Progress Presentation and Implementing Backend Model



- Implementation of the model by using google colab platform



face_classification.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at 12:02 AM


+ Code + Text

```
[ ] num_classes = len(data.class_names)
print('.... Number of Classes : {} ....'.format(num_classes))

.... Number of Classes : 7 ....

[ ] def show_img(data):
    plt.figure(figsize=(15,15))
    for images, labels in data.take(1):
        for i in range(9):
            ax = plt.subplot(3, 3, i + 1)
            ax.imshow(images[i].numpy().astype("uint8"))
            ax.axis("off")

    show_img(data)
```



12:31 AM 5/22/2023

face_classification.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at 12:02 AM

+ Code + Text

```
[ ] pre_trained = InceptionV3(weights='imagenet', include_top=False, input_shape=ing_shape, pooling='avg')
for layer in pre_trained.layers:
    layer.trainable = False

[ ] x = pre_trained.output
x = BatchNormalization(axis=-1, momentum=0.99, epsilon=0.001)(x)
x = Dropout(0.2)(x)
x = Dense(1024, activation='relu')(x)
x = Dropout(0.2)(x)
predictions = Dense(num_classes, activation='softmax')(x)

model = Model(inputs = pre_trained.input, outputs = predictions)
model.compile(optimizer = Adam(learning_rate=0.001), loss='categorical_crossentropy', metrics=['accuracy'])

[ ] model.summary()
```

Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	[(None, 80, 80, 3)]	0	[]
conv2d (Conv2D)	(None, 39, 39, 32)	864	['input_1[0][0]']
batch_normalization (BatchNormalization)	(None, 39, 39, 32)	96	['conv2d[0][0]']
activation (Activation)	(None, 39, 39, 32)	0	['batch_normalization[0][0]']
conv2d_1 (Conv2D)	(None, 37, 37, 32)	9216	['activation[0][0]']
batch_normalization_1 (BatchNormalization)	(None, 37, 37, 32)	96	['conv2d_1[0][0]']
activation_1 (Activation)	(None, 37, 37, 32)	0	['batch_normalization_1[0][0]']

12:32 AM 5/22/2023

3 Updated Gantt Chart

Task Name	2022					2023								
	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														
Preparing SRS Document														
Software Design Phase														
UML Diagram														
Design Wireframes & mock-ups														
Implementation Phase														
Collection dataset														
Training Model														
Frontend Implementation														
Backend Implementation														
Testing Phase														
System Training														
Bug Fixing														
Documentation Phase														
Research Paper														
Final Report														
Project Status Document & Log book														
Final Presenation & Viva														

	Completed
	In progress
	Not started yet

4 Work load allocation

The screenshot shows a Microsoft Teams interface with a 'Research Planner' task board. The left sidebar shows the 'All teams' list with 'TMP-23-308 Research ...' selected. The main area displays the task board with three columns: 'To do', 'In Progress', and 'Done'. Each column has a '+ Add task' button. Tasks are represented by cards with due dates and assigned team members (AI, SI, JI, +1).

Task	Due Date	Assigned To	Status
Start Implementing Backend	08/29	AI, SI, JI, +1	To do
Writing Research Paper	08/30	AI, JI, SI, +1	To do
Schedule Meeting with Supervisor	Due	AI	In Progress
Training the Backend ML AI Models using datasets	07/18	AI, JI, SI, +1	In Progress
Practicing to PP1 Presentation	05/19	AI, JI, SI, +1	In Progress
Research			Done
Find Research Gap of Our Selected Topic-1-V1-(Literature-Review)		AI	Done
Completed by Athukorala.Y.J it20...			Done
Coding Learning Theory			Done
Learning Machin-Learning (introduction)			Done
Completed by Athukorala.Y.J it20...			Done
Learning React Native			Done
Completed by Athukorala.Y.J it20...			Done

Microsoft Teams interface showing a Kanban board for the "Research Planner" team. The board is divided into three columns: "To Do", "In Progress", and "Done".

Left Sidebar: Activity, Chat, Teams, Assignments, Calendar, Calls, Files, Apps, Help.

Top Bar: Search, Team Name (General), Posts, Files, Research Planner, Meet button.

Board Columns:

- To Do:**
 - Start Implementing Backend (Due: 08/29, Assignees: AI, SI, JI, +1)
 - Writing Research Paper (Due: 08/30, Assignees: AI, JI, SI, +1)
- In Progress:**
 - Schedule Meeting with Supervisor (Due: AI)
 - Training the Backend ML AI Models using datasets (Due: 07/18, Assignees: AI, JI, SI, +1)
 - Practicing to PP1 Presentation (Due: 05/19, Assignees: AI, JI, SI, +1)
- Done:**
 - Research: Find Research-Gap of Our Selected Topic 1 V1 (Literature Review) (Assignee: AI, Completed by Athukorala.YJ it20...)
 - Research: Find Research-Gap of Our Selected Topic 1 V1 (Literature Review) (Assignee: AI, Completed by Athukorala.YJ it20...)
 - Research: Finding Research-Gap of Our Existing Topic 2 V2 (Literature Review) If topic (Assignee: AI, Completed by Athukorala.YJ it20...)

Microsoft Teams interface showing a Kanban board for the "Research Planner" team. The board is divided into three columns: "To Do", "In Progress", and "Done".

Left Sidebar: Activity, Chat, Teams, Assignments, Calendar, Calls, Files, Apps, Help.

Top Bar: Search, Team Name (General), Posts, Files, Research Planner, Meet button.

Board Columns:

- To Do:**
 - Start Implementing Backend (Due: 08/29, Assignees: AI, SI, JI, +1)
 - Writing Research Paper (Due: 08/30, Assignees: AI, JI, SI, +1)
- In Progress:**
 - Research (Assignee: AI)
 - Schedule Meeting with Supervisor (Due: AI)
 - Coding (Due: 07/18, Assignees: AI, SI, JI, +1)
 - Training the Backend ML AI Models using datasets (Due: 07/18, Assignees: AI, SI, JI, +1)
 - Research (Assignee: AI)
 - Practicing to PP1 Presentation (Due: 05/19, Assignees: AI, SI, JI, +1)
- Done:**
 - Research: Find Research-Gap of Our Selected Topic 1 V1 (Literature Review) (Assignee: AI, Completed by Athukorala.YJ it20...)
 - Research: Find Research-Gap of Our Selected Topic 1 V1 (Literature Review) (Assignee: AI, Completed by Athukorala.YJ it20...)
 - Research: Find Research-Gap of Our Selected Topic 1 V1 (Literature Review) (Assignee: AI, Completed by Athukorala.YJ it20...)
 - Research: Get a Meeting with Co-Supervisor (Assignee: AI, Completed by Athukorala.YJ it20...)

5 Future Development and Tasks

1. Optimizing dataset by collecting more data
2. Research paper writing
3. Implementing frontend and backend of the system
4. Preparing for Progress presentation 2
5. Thesis and final report writing

Current Progress – 50%