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

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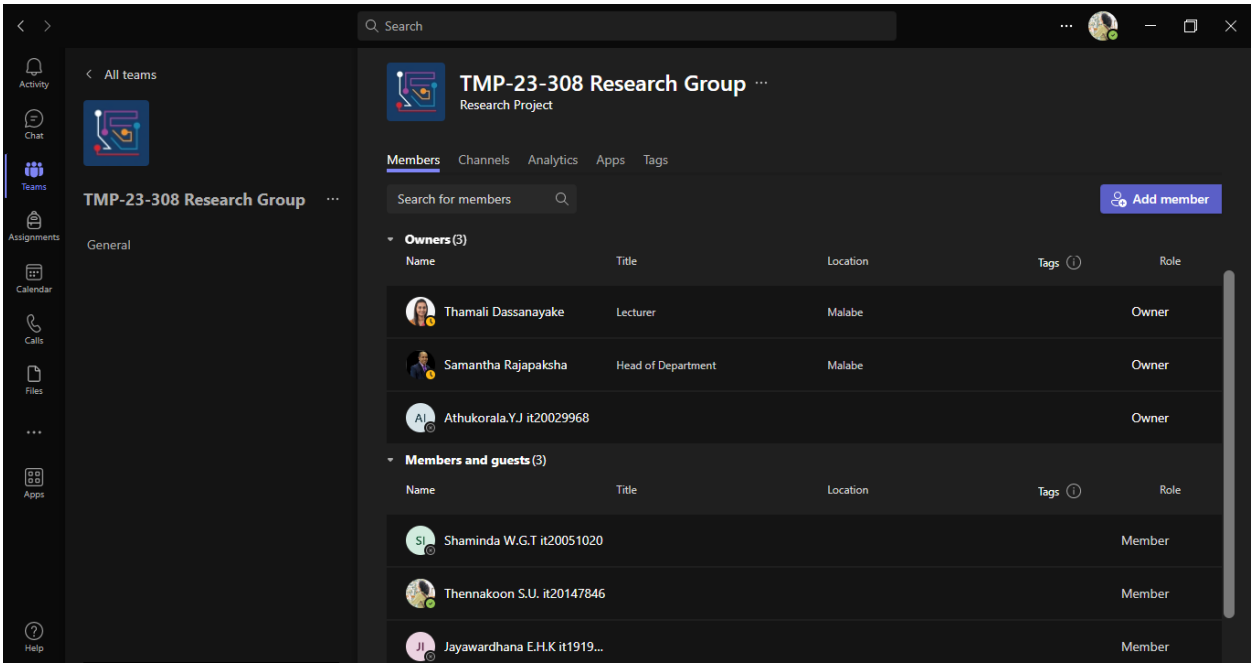
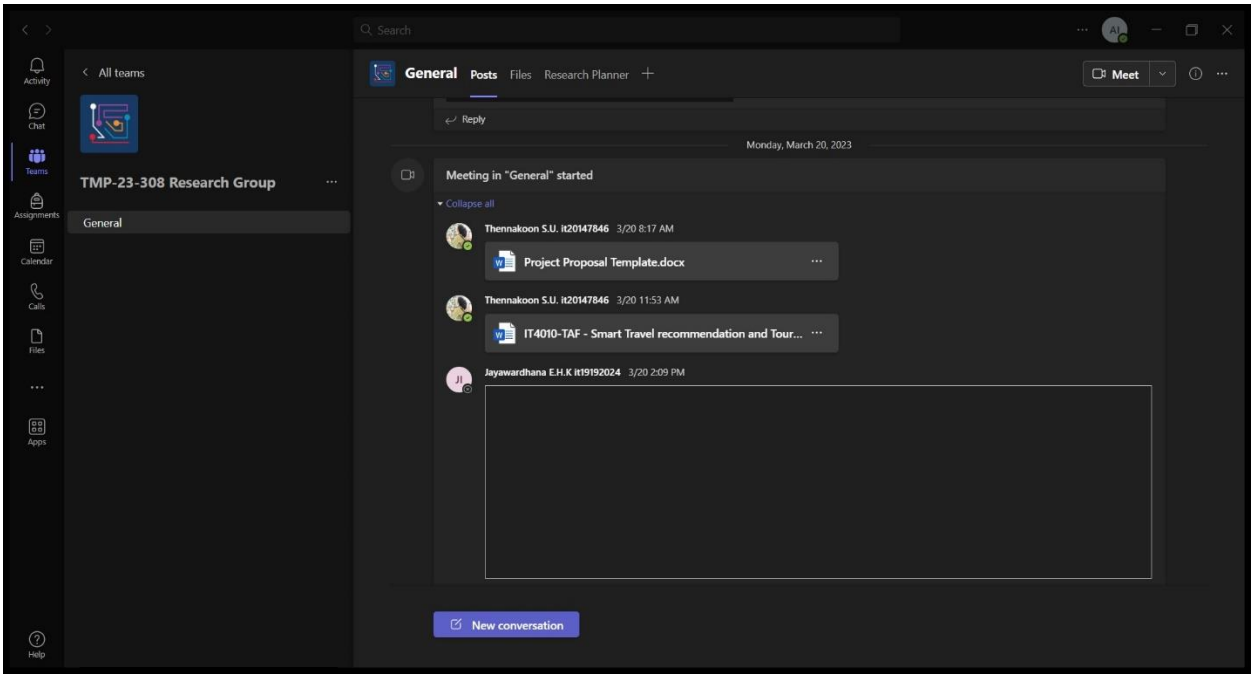
IT20147846

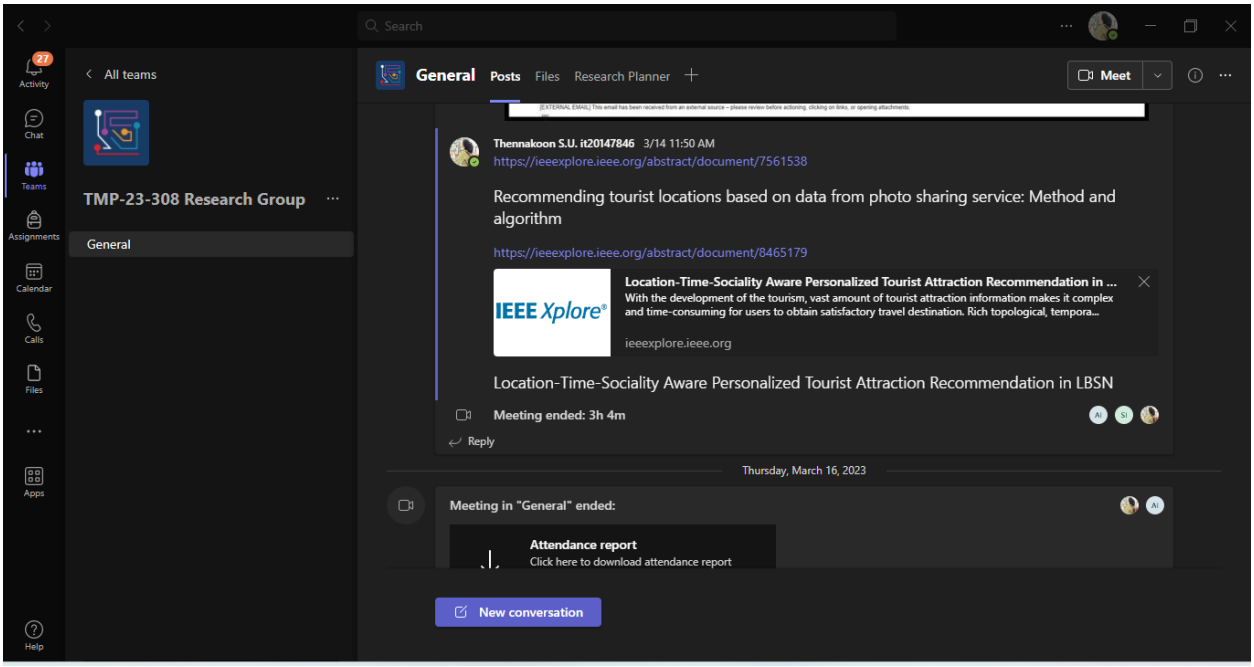
Contents

1 Microsoft Teams Group

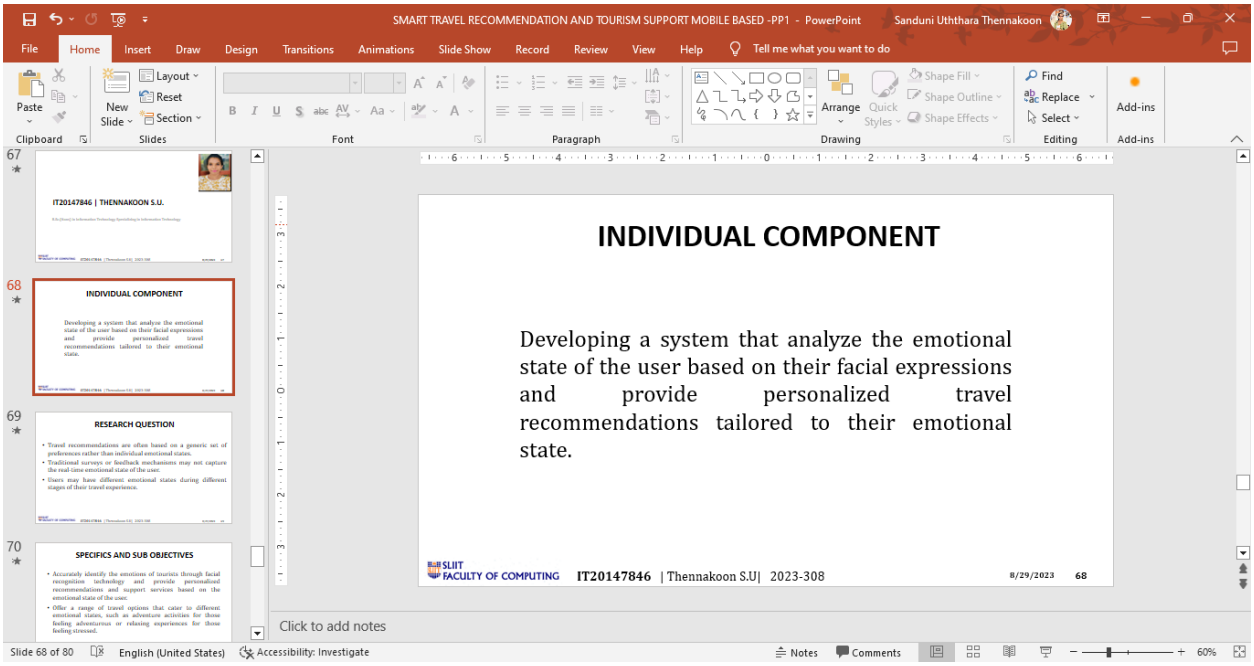




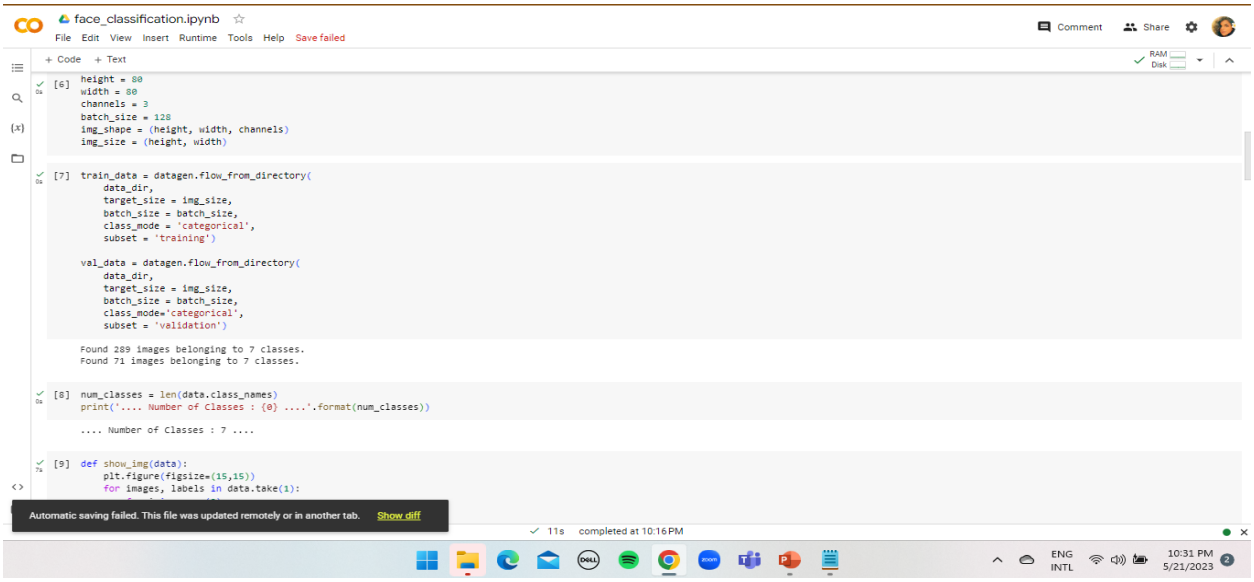
- Meetings were held as much as possible to discuss issues that were occurred during implementation.



2 Creating Progress Presentation and Implementing Backend Model



- Implementation of the model by using google colab platform



face_classification.ipynb

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```
[ ] num_classes = len(data.class_names)
    print('.... Number of Classes : {0} ....'.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)
```



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face_classification.ipynb

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```
[ ] pre_trained = InceptionV3(weights='imagenet', include_top=False, input_shape=img_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()
```

```
Model: "model"
_________________________________________________________________________________________________
 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 (BatchNorm  (None, 39, 39, 32)    96        ['conv2d[0][0]']
 alization)

 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 (BatchNo  (None, 37, 37, 32)    96        ['conv2d_1[0][0]']
 rmalization)

 activation_1 (Activation)   (None, 37, 37, 32)        0         ['batch_normalization_1[0][0]']
```

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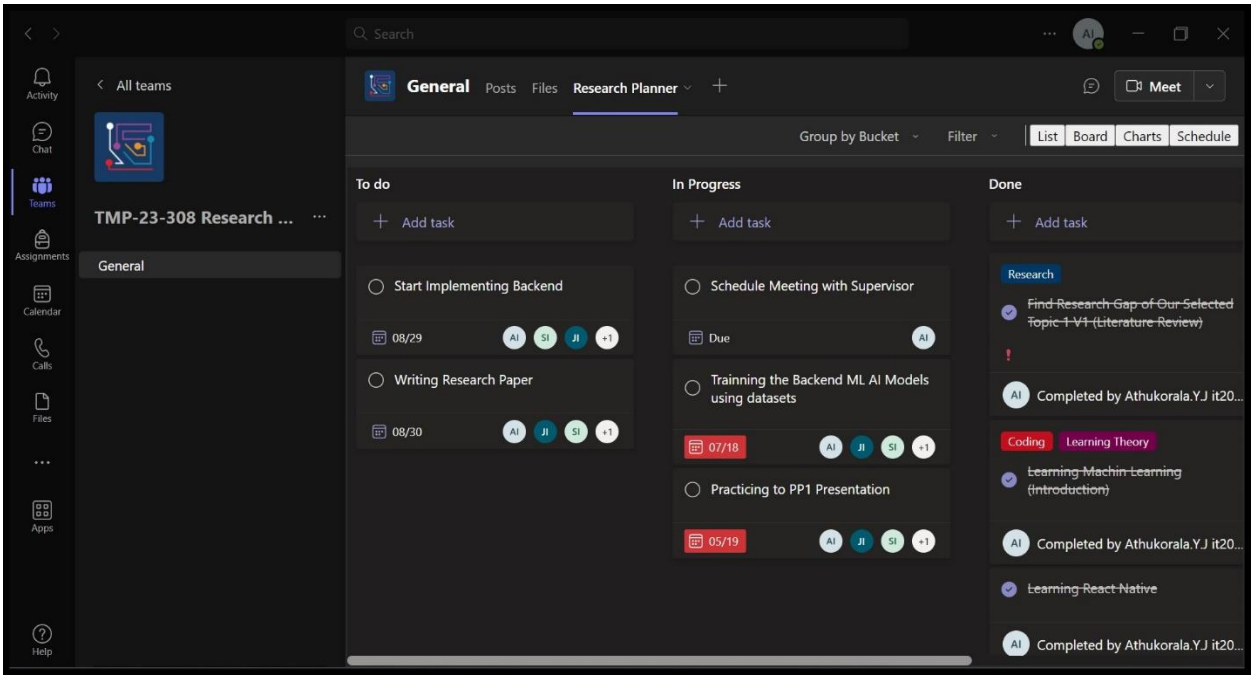
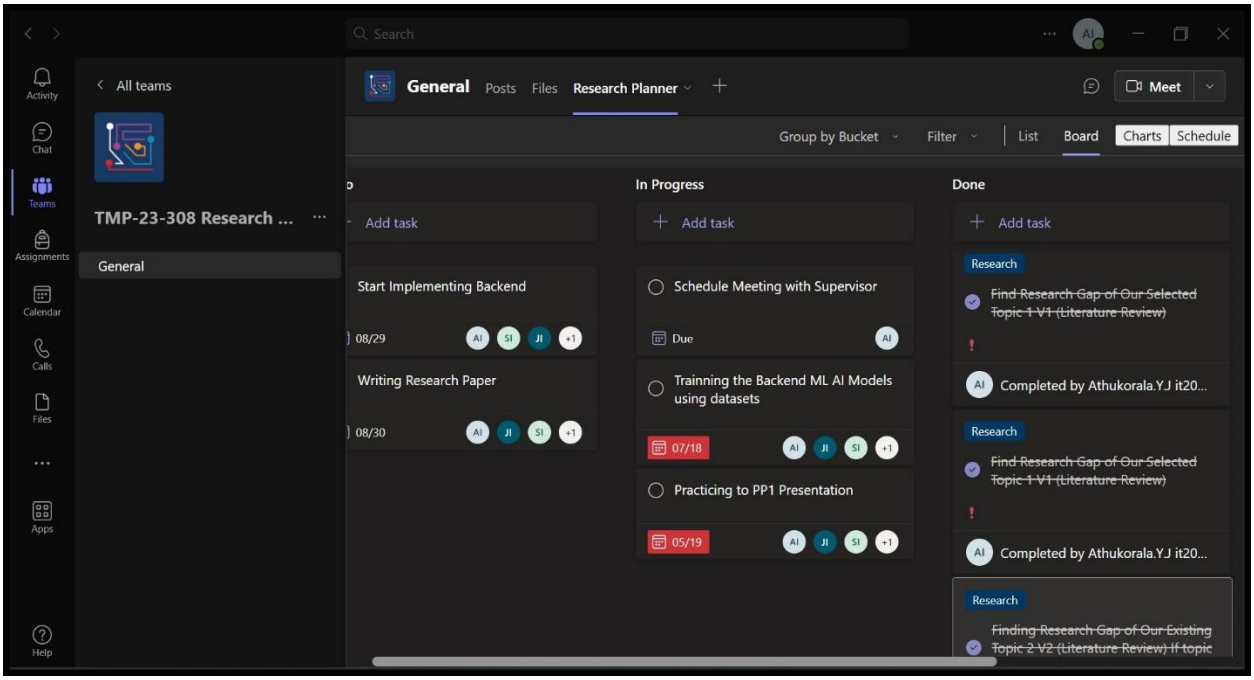
3 Updated Gantt Chart

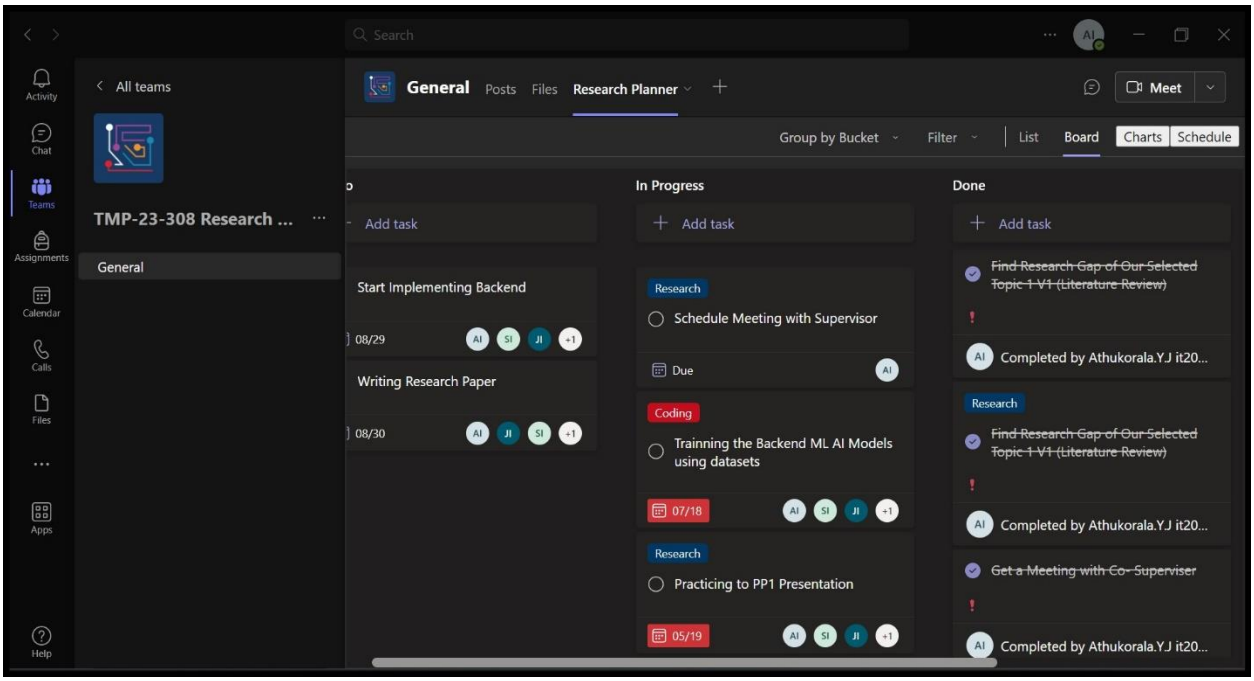
Task Name	2022													
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Planning Phase														
Initial discussion with the supervisor														
Feasibility Study														
Requirement Analysis														
Literature Review														
System Overview Diagram														
Topic Assesment Form														
Project Propsal														
Preparing SRS Document														
Software Design Phase														
UML Diagram														
Design Wireframes & mock-ups														
Implementation Phase														
Collection dataset														
Trainging 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




Search
All teams
General
Posts
Files
Research Planner
Meet
Group by Bucket
Filter
List
Board
Charts
Schedule
TMP-23-308 Research ...
General
In Progress
Done
Add task
Start Implementing Backend
08/29
Writing Research Paper
08/30
Schedule Meeting with Supervisor
Due
Trainning the Backend ML AI Models using datasets
07/18
Practicing to PP1 Presentation
05/19
Research
Find Research Gap of Our Selected Topic 1 V1 (Literature Review)
Completed by Athukorala.Y.J it20...
Finding Research Gap of Our Existing Topic 2 V2 (Literature Review) If topic
Activity
Chat
Teams
Assignments
Calendar
Calls
Files
Apps
Help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Assignments
Calendar
Calls
Files
Apps
Help

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%