

“DreamIT”

Multi-Model Approach to Recommend Personalized Music Playlist

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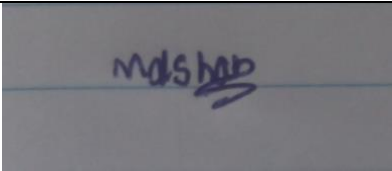
**B.Sc. Special (Hons) in Information Technology Specializing in
information technology.**

Department of Information Technology.

Sri Lanka Institute of Information Technology

Declaration

I declare that this is my 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.

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Gunasekara C.M	It20665852	

The above candidate is carrying out research for the undergraduate Dissertation under my supervision.

.....
Signature of the supervisor

.....
Date

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1.Screenshots of calls of ms teams

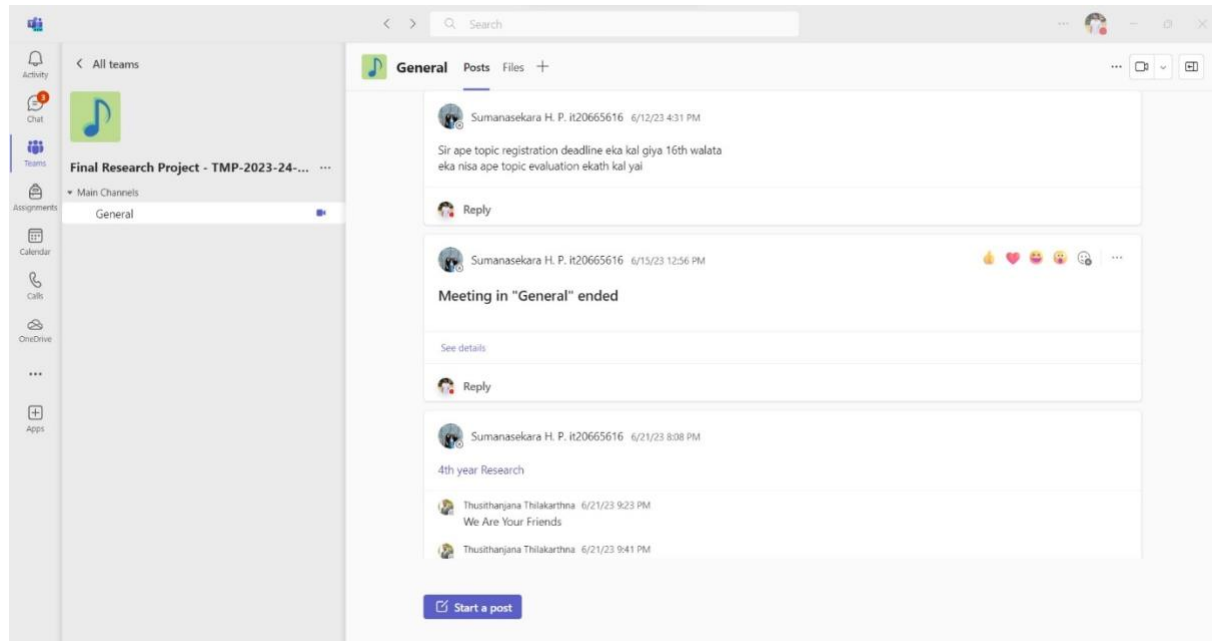


Figure : meetings conducted through teams

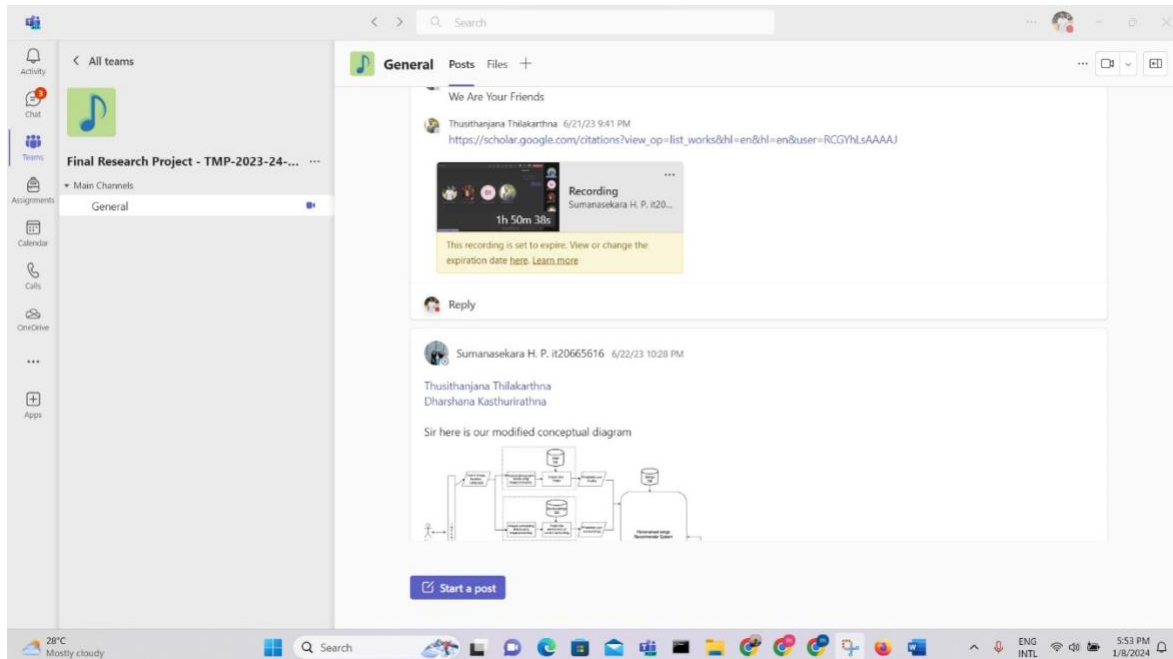


Figure : meetings conducted through teams

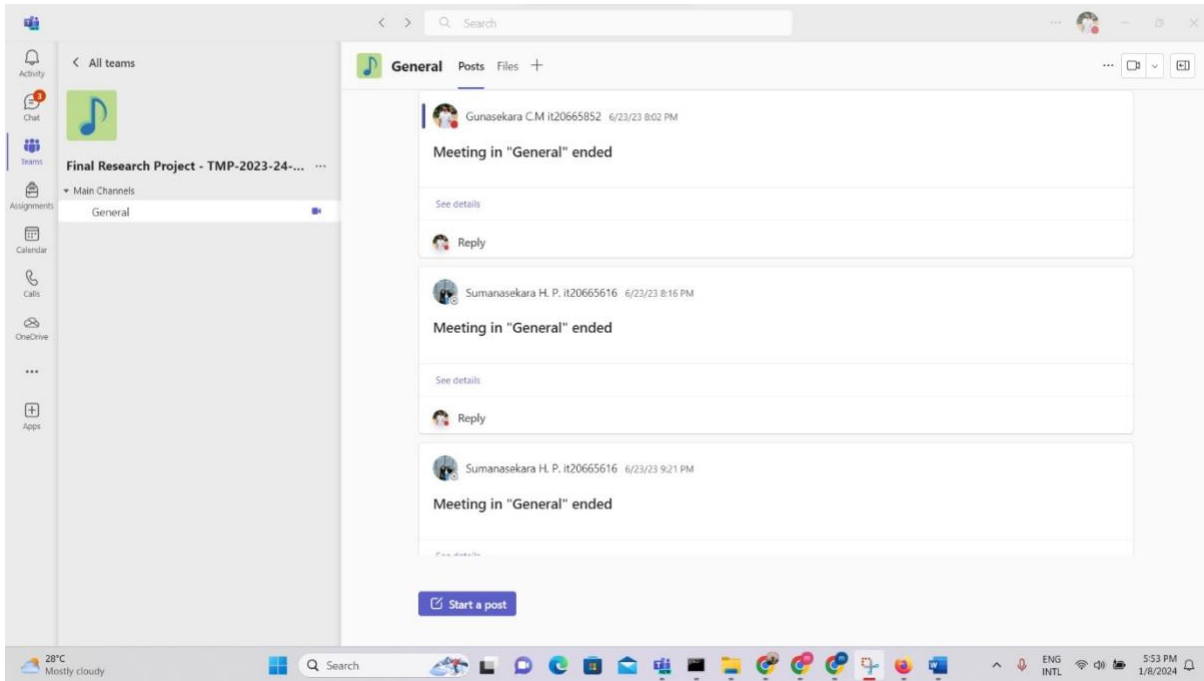


Figure : meetings conducted through teams

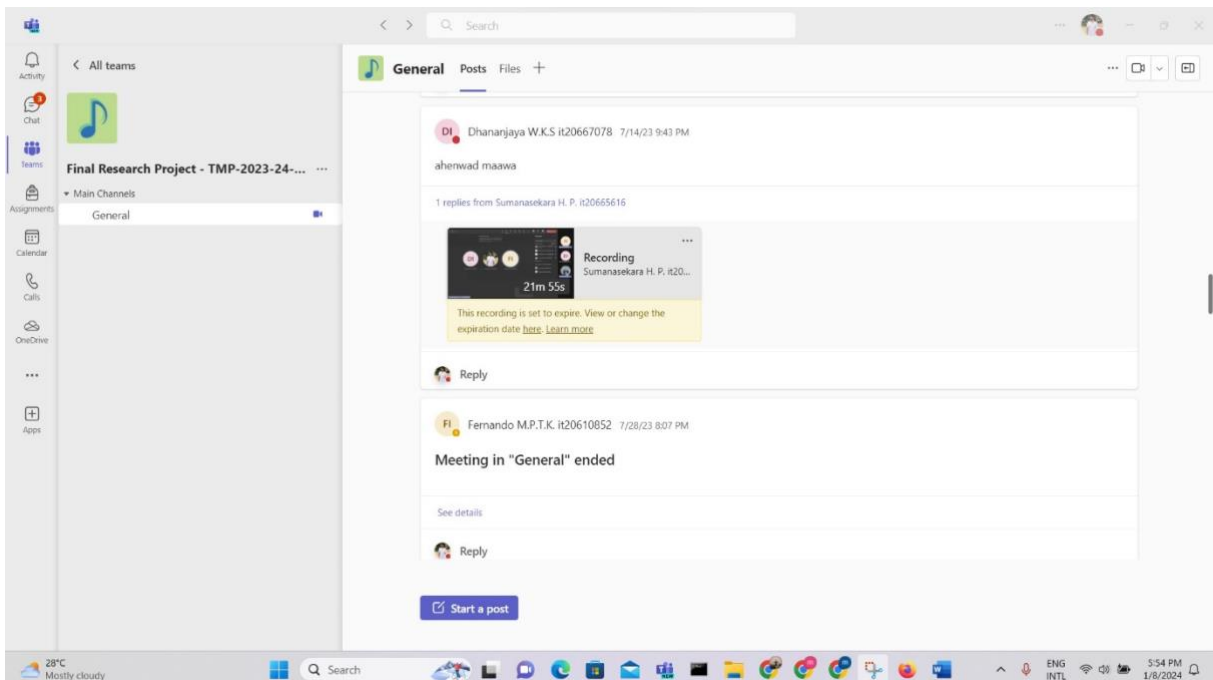


Figure : meetings conducted through teams

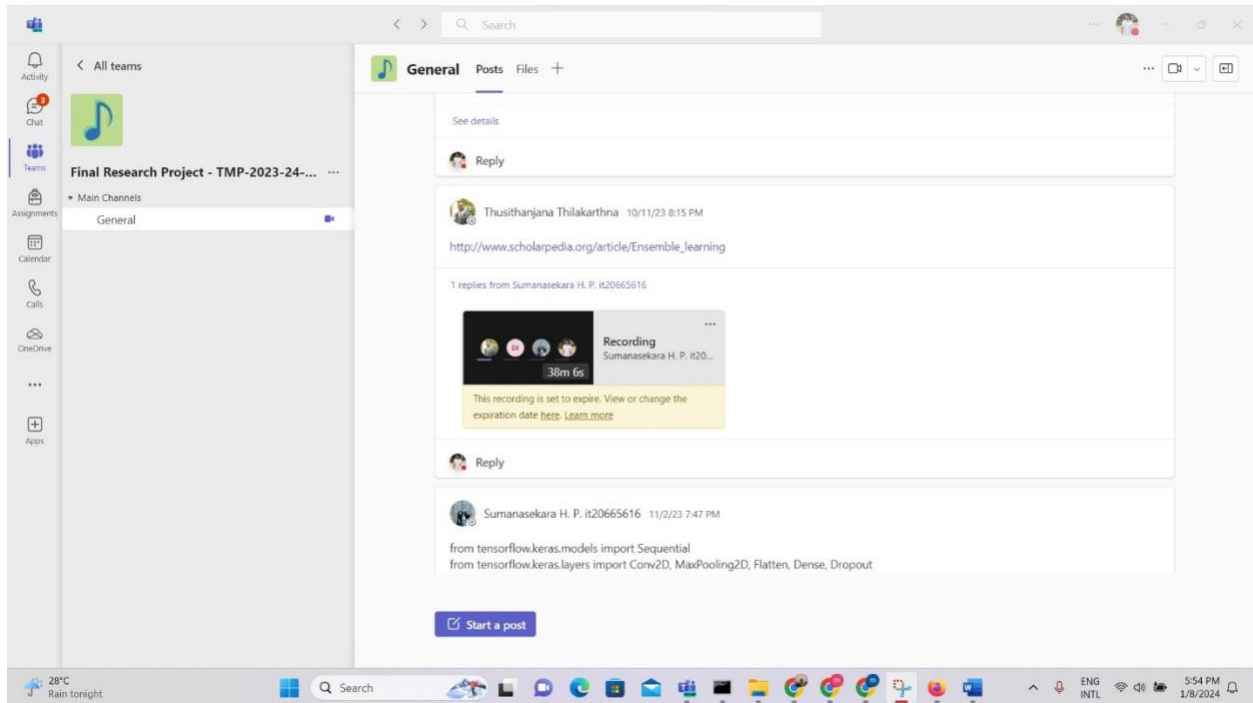


Figure : meetings conducted through teams

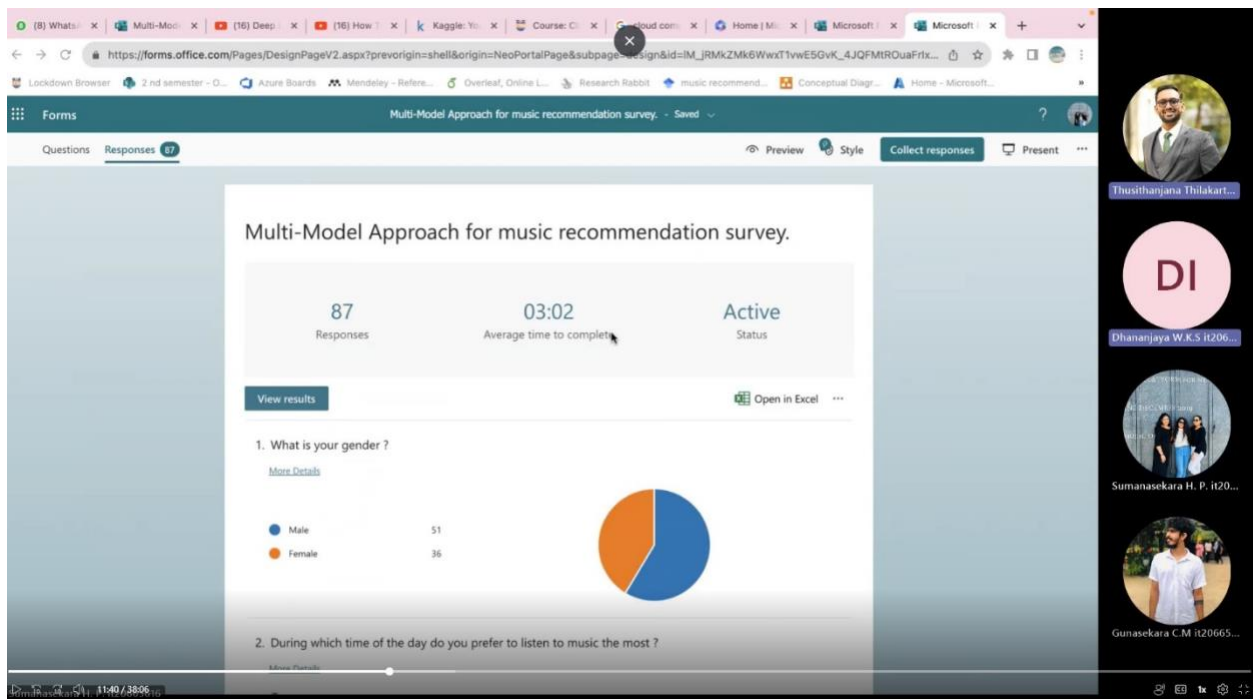


Figure: meetings conducted through teams

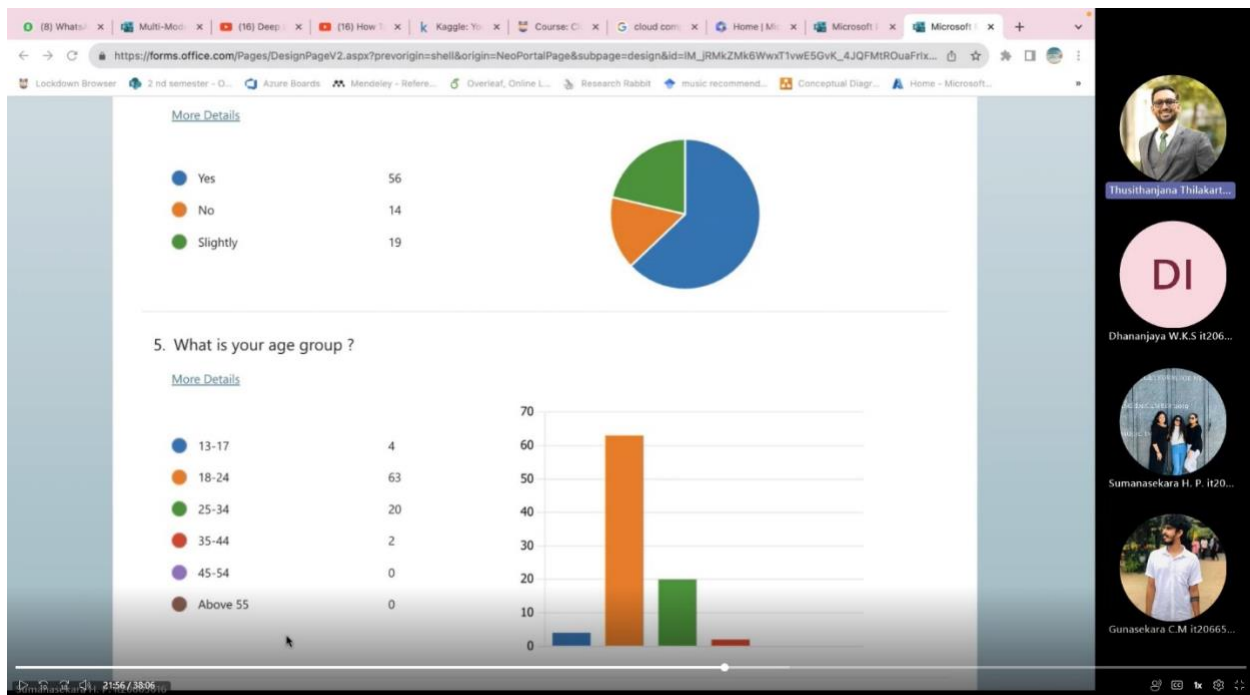


Figure: meetings conducted through teams



Figure : whatsapp chat

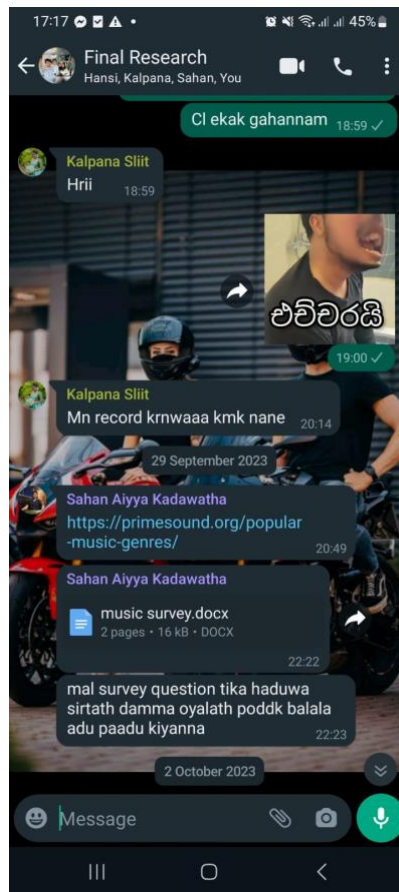


Figure : whatsapp chat

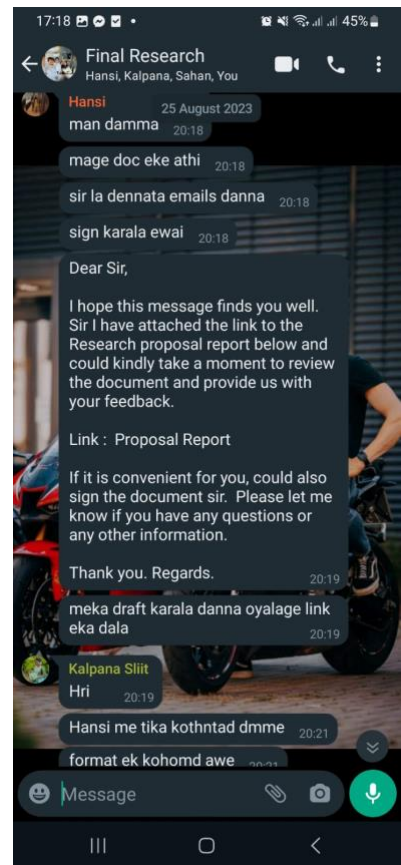


Figure : whatsapp chat

2.Sample works

```
[102] print('Time: ', stop - start)

11it [00:00, 4.37it/s] audio has been processed
5011it [04:44, 1.74it/s] 500 audio has been processed
10011it [09:29, 1.93it/s] 1000 audio has been processed
15011it [14:18, 1.53it/s] 1500 audio has been processed
20011it [18:29, 1.71it/s] 2000 audio has been processed
25011it [22:43, 1.60it/s] 2500 audio has been processed
30011it [27:02, 2.06it/s] 3000 audio has been processed
35011it [31:23, 2.51it/s] 3500 audio has been processed
40011it [35:37, 1.80it/s] 4000 audio has been processed
45011it [39:42, 2.33it/s] 4500 audio has been processed
50011it [44:00, 1.65it/s] 5000 audio has been processed
55011it [48:09, 2.15it/s] 5500 audio has been processed
60011it [52:20, 1.95it/s] 6000 audio has been processed
65011it [56:36, 2.05it/s] 6500 audio has been processed
70011it [1:00:44, 1.90it/s] 7000 audio has been processed
75011it [1:04:55, 1.74it/s] 7500 audio has been processed
80011it [1:09:09, 1.64it/s] 8000 audio has been processed
85011it [1:13:14, 2.13it/s] 8500 audio has been processed
90011it [1:17:28, 2.80it/s] 9000 audio has been processed
95011it [1:20:46, 2.65it/s] 9500 audio has been processed
100011it [1:24:14, 2.75it/s] 10000 audio has been processed
105011it [1:27:24, 2.50it/s] 10500 audio has been processed
110011it [1:30:47, 3.30it/s] 11000 audio has been processed
115011it [1:33:50, 2.33it/s] 11500 audio has been processed
120011it [1:38:15, 1.96it/s] 12000 audio has been processed
121721it [1:39:55, 2.03it/s] Done
Time: 5995.684790552001
```

Data preparation

```
[ ] #taking all rows and all cols without last col for X which include features
    #taking last col for Y, which include the emotions
```

```
X = Emotions.iloc[:, :-1].values
Y = Emotions['Emotions'].values
```

```
[ ] # As this is a multiclass classification problem onehotencoding our Y
    from sklearn.preprocessing import StandardScaler, OneHotEncoder
    encoder = OneHotEncoder()
    Y = encoder.fit_transform(np.array(Y).reshape(-1,1)).toarray()
```

```
[ ] print(Y.shape)
    X.shape
```

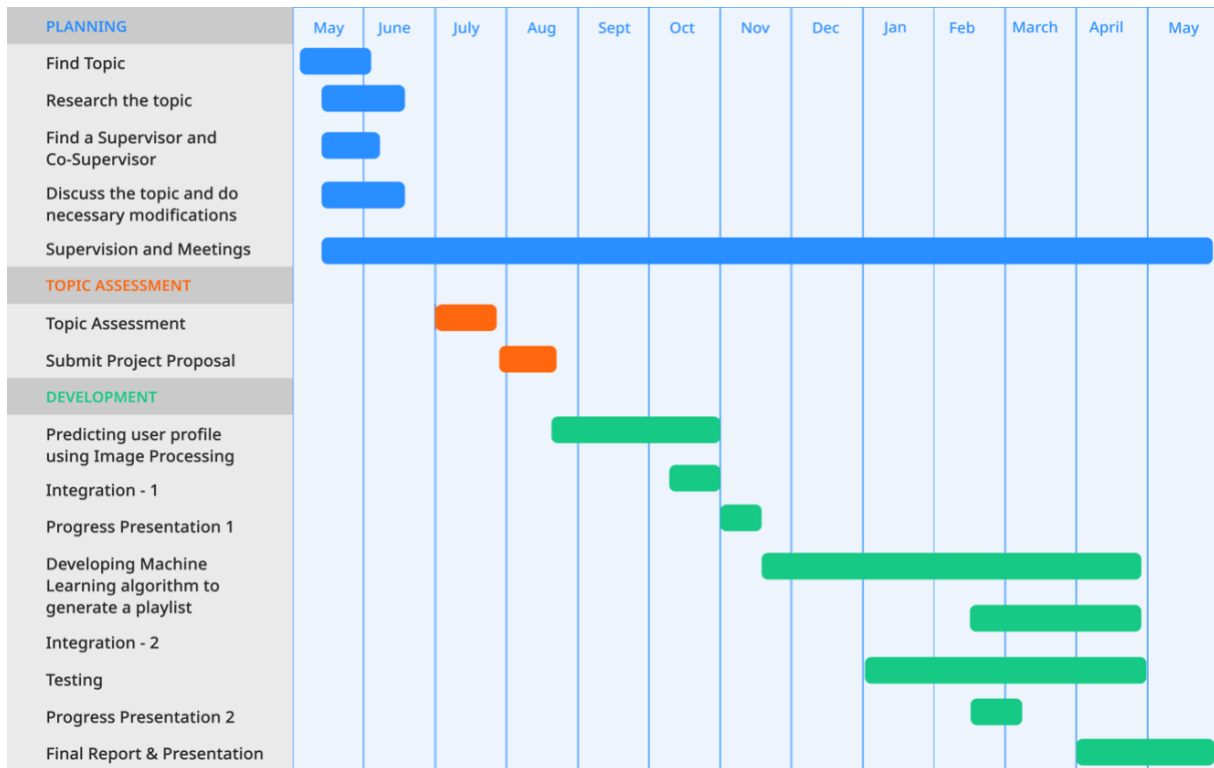
```
[ ] from sklearn.model_selection import train_test_split

    x_train, x_test, y_train, y_test = train_test_split(X, Y, random_state=42, test_size=0.2, shuffle=True)
    x_train.shape, y_train.shape, x_test.shape, y_test.shape
```

```
[ ] #reshape for lstm
    X_train = x_train.reshape(x_train.shape[0], x_train.shape[1], 1)
    X_test = x_test.reshape(x_test.shape[0], x_test.shape[1], 1)
```

```
[ ] # scaling our data with sklearn's Standard scaler
    scaler = StandardScaler()
    x_train = scaler.fit_transform(x_train)
    x_test = scaler.transform(x_test)
    x_train.shape, y_train.shape, x_test.shape, y_test.shape
```

3. Grantt chart



Work breakdown chart

