Sri Lanka Institute of Information Technology



Research Project - IT4010

B.Sc. (Hons) in Information Technology

Status Document - 01

Group ID: 24-010

Supervisor: Dr. Darshana Kasthurirathna

Co- supervisor: Poojani Gunathilak

Registration Number: IT21045530

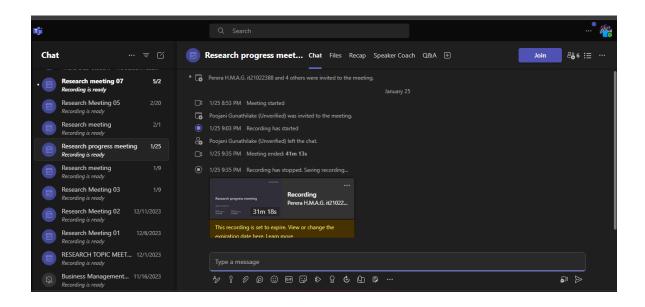
Full Name: Nissanka K G T R K Nissanka

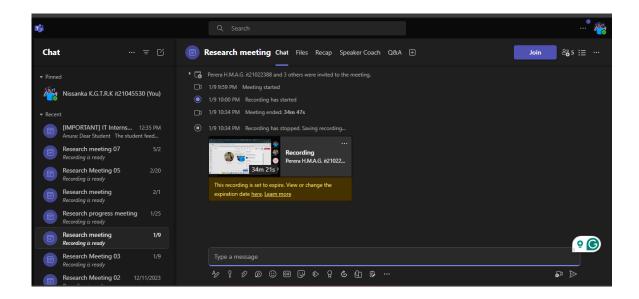
Specialization: Information Technology

TABLE OF CONTENTS

- 1. Screenshots of the chats in MS Teams
- 2. Screenshots of the WhatsApp group and chats.
- 3. Group Working
- 4. Site visit to Nikawaratiya
- 5. Company visit to physical meetings and collect data
- 6. System Diagram
- 7. Model creation using Jupyter notebook
- 8. Frontend UI Wireframes

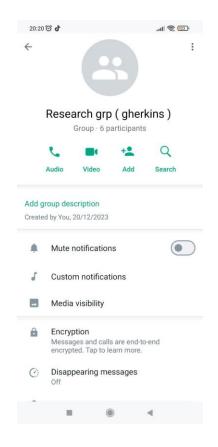
1. Screenshots of the chats in MS Teams

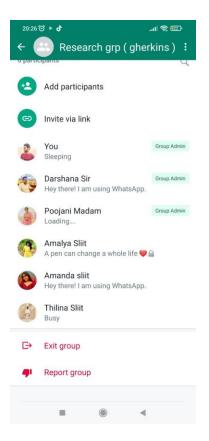




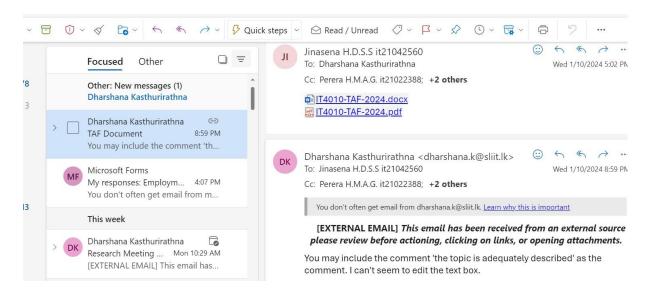


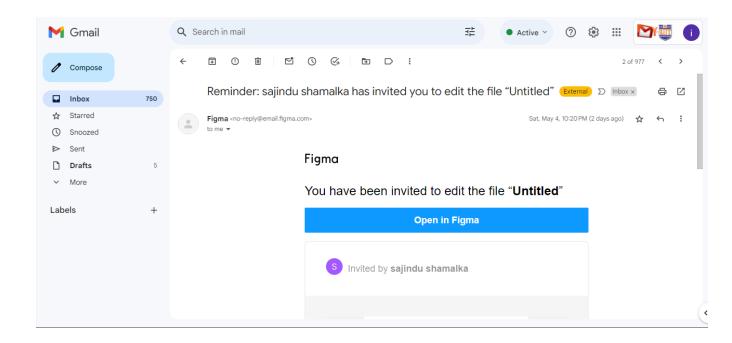
2. Screenshots of the WhatsApp group and chats.

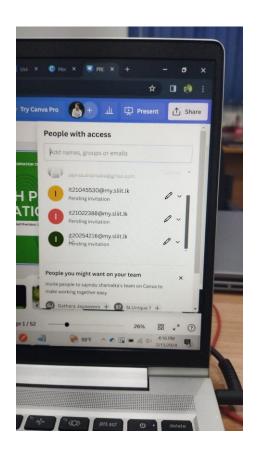




3. Group Working







4. Site visit to Nikawaratiya





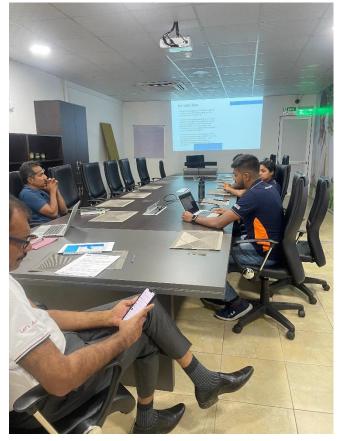




5. Company visit to physical meetings and collect data





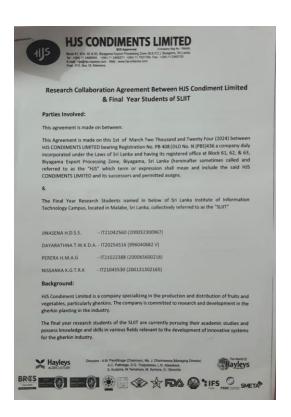


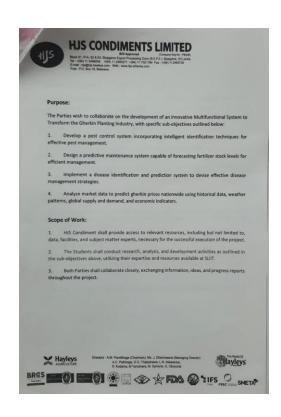


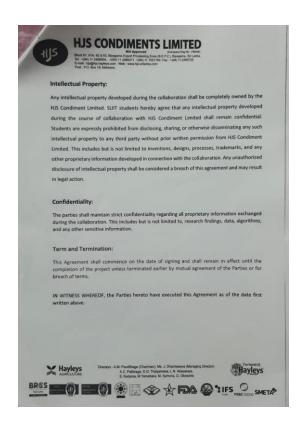


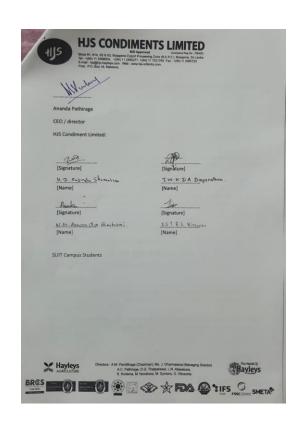




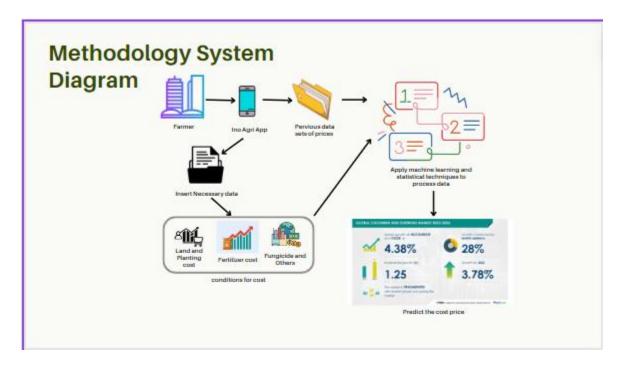




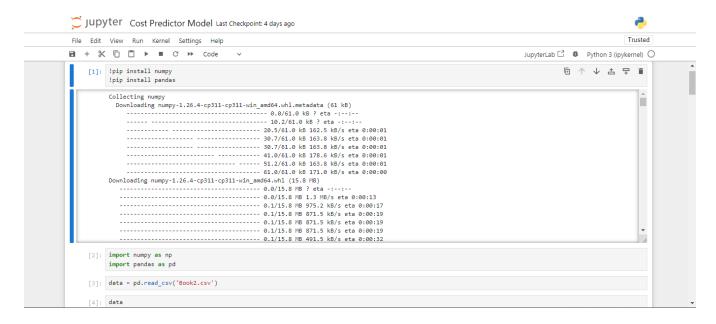




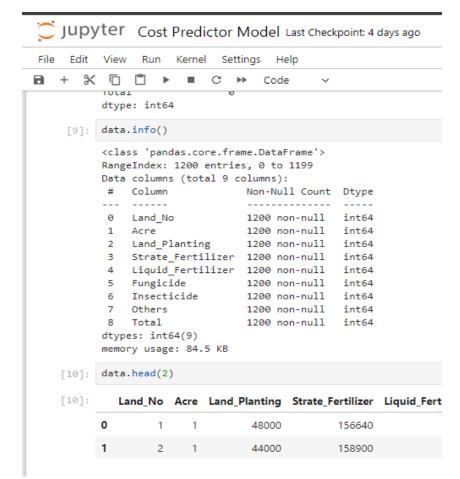
6. System Diagram



7. Model creation using Jupyter notebook



```
Jupyter Cost Predictor Model Last Checkpoint: 4 days ago
             Run Kernel Settings Help
[19]: X = data.drop('Total',axis = 1)
        y = data['Total']
   [23]: !pip install scikit-learn
        Collecting scikit-learn
         Downloading scikit_learn-1.4.2-cp311-cp311-win_amd64.whl.metadata (11 kB)
        Requirement already satisfied: numpy>=1.19.5 in c:\users\hp\downloads\cost pric
        Collecting scipy>=1.6.0 (from scikit-learn)
          Downloading scipy-1.13.0-cp311-cp311-win_amd64.whl.metadata (60 kB)
            ----- 0.0/60.6 kB ? eta -:--:--
            ----- 10.2/60.6 kB ? eta -:--:--
            ----- 60.6/60.6 kB 645.4 kB/s eta 0:00:00
        Collecting joblib>=1.2.0 (from scikit-learn)
          Downloading joblib-1.4.0-py3-none-any.whl.metadata (5.4 kB)
        Collecting threadpoolctl>=2.0.0 (from scikit-learn)
          Downloading threadpoolctl-3.5.0-py3-none-any.whl.metadata (13 kB)
        Downloading scikit_learn-1.4.2-cp311-cp311-win_amd64.whl (10.6 MB)
           ----- 0.0/10.6 MB ? eta -:--:-
           ----- 0.1/10.6 MB 1.3 MB/s eta 0:00:09
           ----- 0.1/10.6 MB 1.8 MB/s eta 0:00:06
           ----- 0.2/10.6 MB 1.6 MB/s eta 0:00:07
                     ----- 0.2/10.6 MB 1.5 MB/s eta 0:00:07
```



Jupyter Cost Predictor Model Last Checkpoint: 4 days ago File Edit Kernel View Run Settings Help X 🗇 Code def model_acc(model): model.fit(X train, y train) acc = model.score(X_test, y_test) print(str(model)+ ' --> ' +str(acc)) [30]: from sklearn.linear_model import LinearRegression lr = LinearRegression() model_acc(lr) from sklearn.linear_model import Lasso lasso = Lasso() model acc(lasso) from sklearn.tree import DecisionTreeRegressor dt = DecisionTreeRegressor() model acc(dt) from sklearn.ensemble import RandomForestRegressor rf = RandomForestRegressor() model_acc(rf) LinearRegression() --> 1.0 Lasso() --> 0.999999999189141 DecisionTreeRegressor() --> 0.9952158126432307 RandomForestRegressor() --> 0.998971424519347

8. Frontend UI Wireframes





