MACHINE LEARNING BASED AUTOMATED CONSTRUCTION PLANNING SYSTEM FOR SRI LANKA

Group ID: RPJ_24-25J-201

Research Logbook

Ahamed R A - IT21158018

B.Sc. (Hons) Degree in Information Technology Specialization in Information Technology

Department of Information Technology

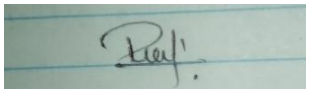
Sri Lanka Institute of Information

Technology Sri Lanka

June 2025

DECLARATION

I declare that this is my own work, and this proposal does not incorporate without acknowledgement 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 publish or written by another person expect where the acknowledgement is made in the text.

Name	Student ID	Signature
Ahamed R A	IT21158018	

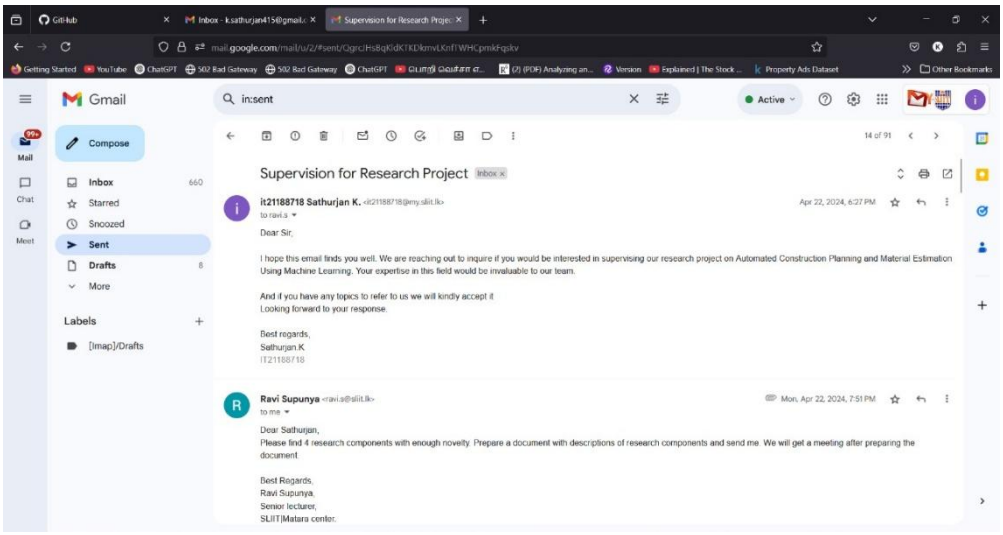
The supervisor/s should certify the proposal report with the following declaration.
The above candidates are carrying out research for the undergraduate Dissertation under my supervision.

…… ……
Signature of the Supervisor Date
(Mr. N.H.P. Ravi Supunya Swarnakantha)

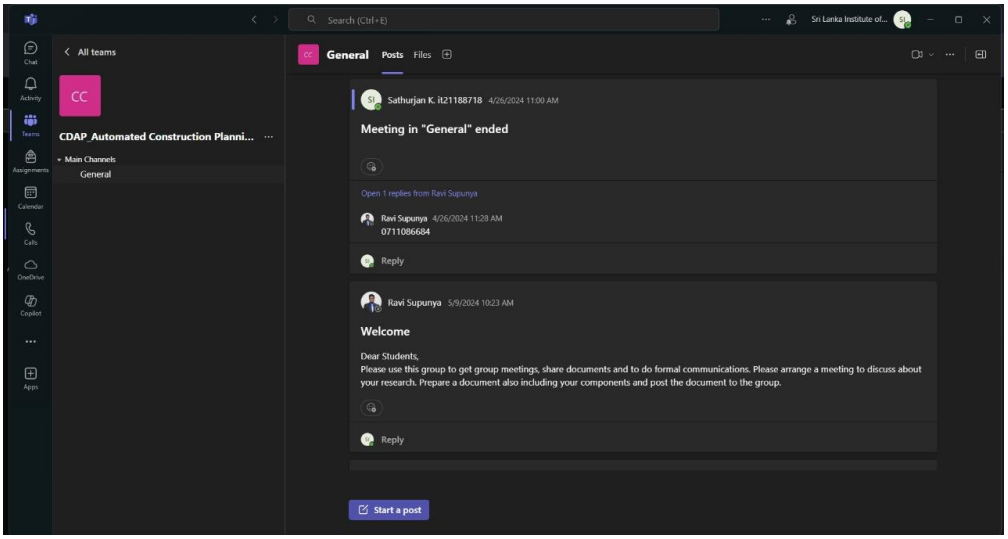
…… ……
Signature of the Co-Supervisor Date
(Dr. Dharshana Kasthurirathna)

Tasks

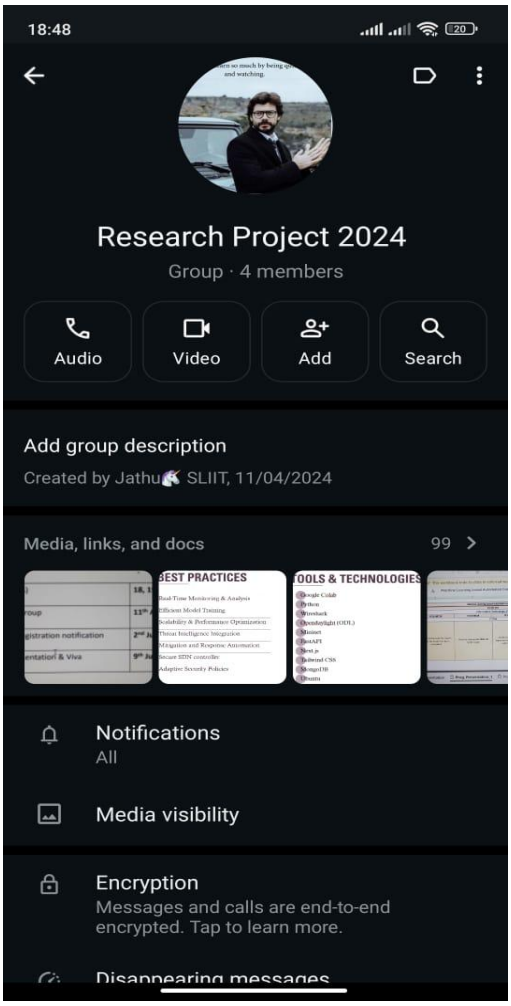
- Supervisor accept the Topic through the mail and check the send the details about topic.



- Meeting with the supervisor to discuss the project topic for the first time.
  - Meet the supervisor online.
  - Discuss the research project topic area.
  - Get the supervisor's ideas about the research topic.

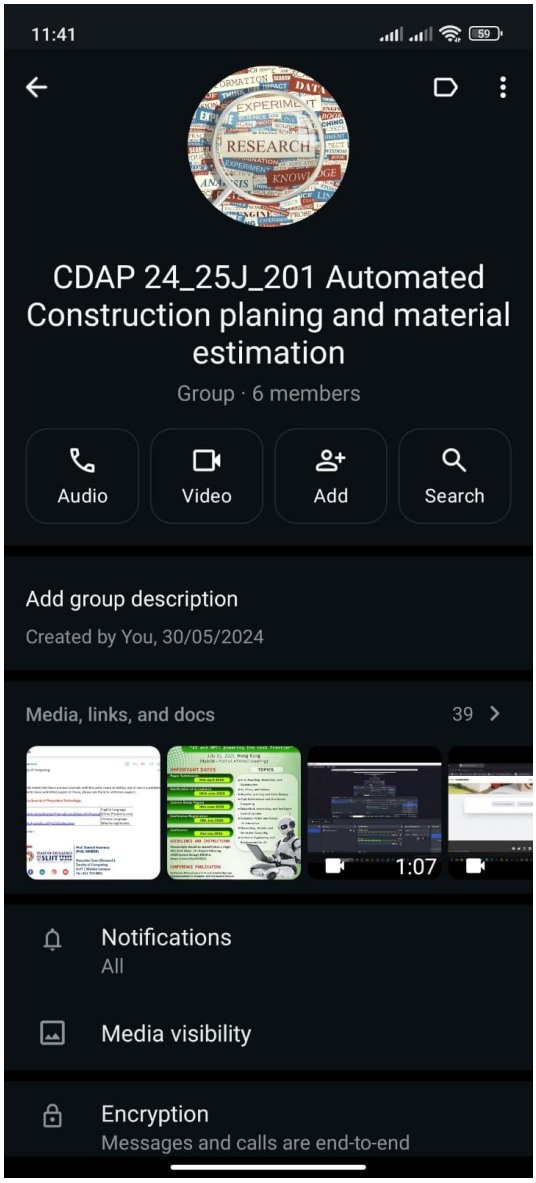


❖ Created separate WhatApp Group for Conversation with team members.



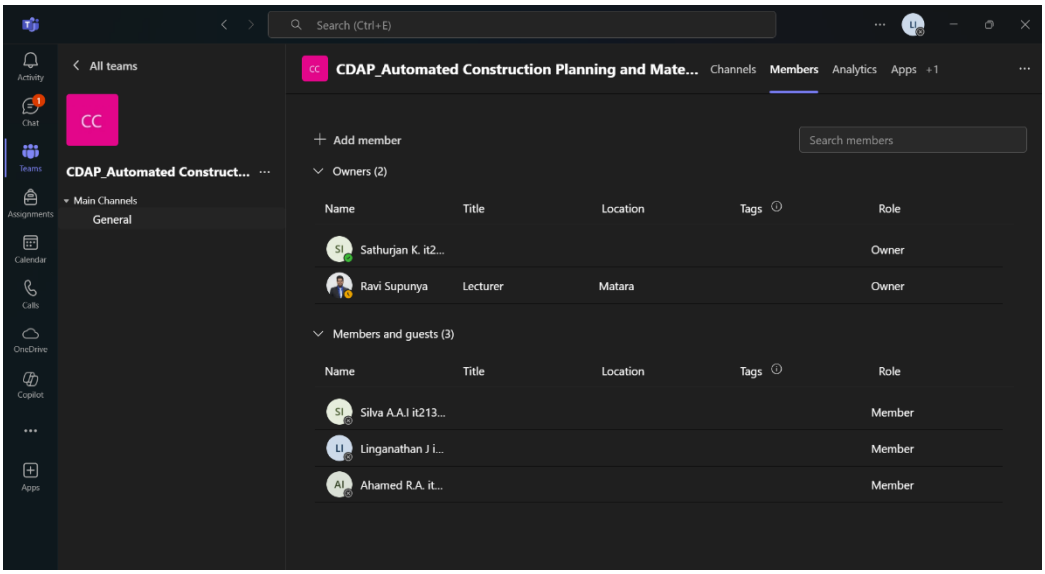
❖ Created the Research Team WhatsApp Group.

- Discuss the research topic with team members.
- Discuss the research problem.
- Get the solution ideas with brainstorming sessions.
- Identify the main solutions.
- Assign tasks and conversation highlights.



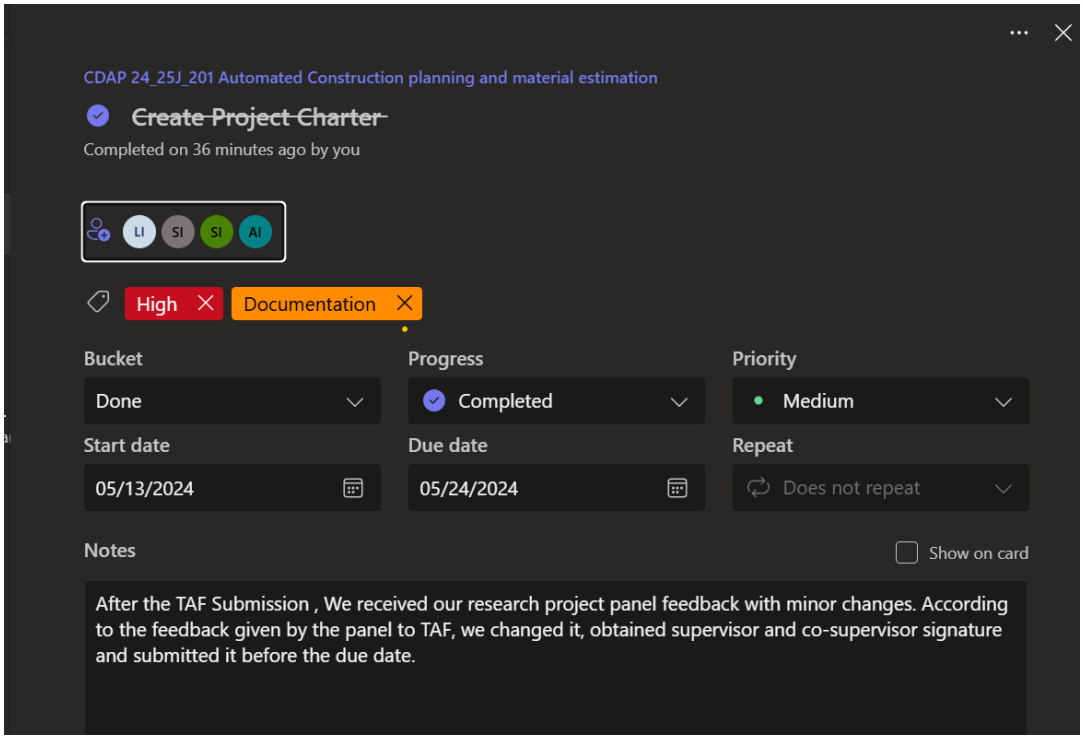
❖ Created a separate MS Teams channel with Supervisor conversation.

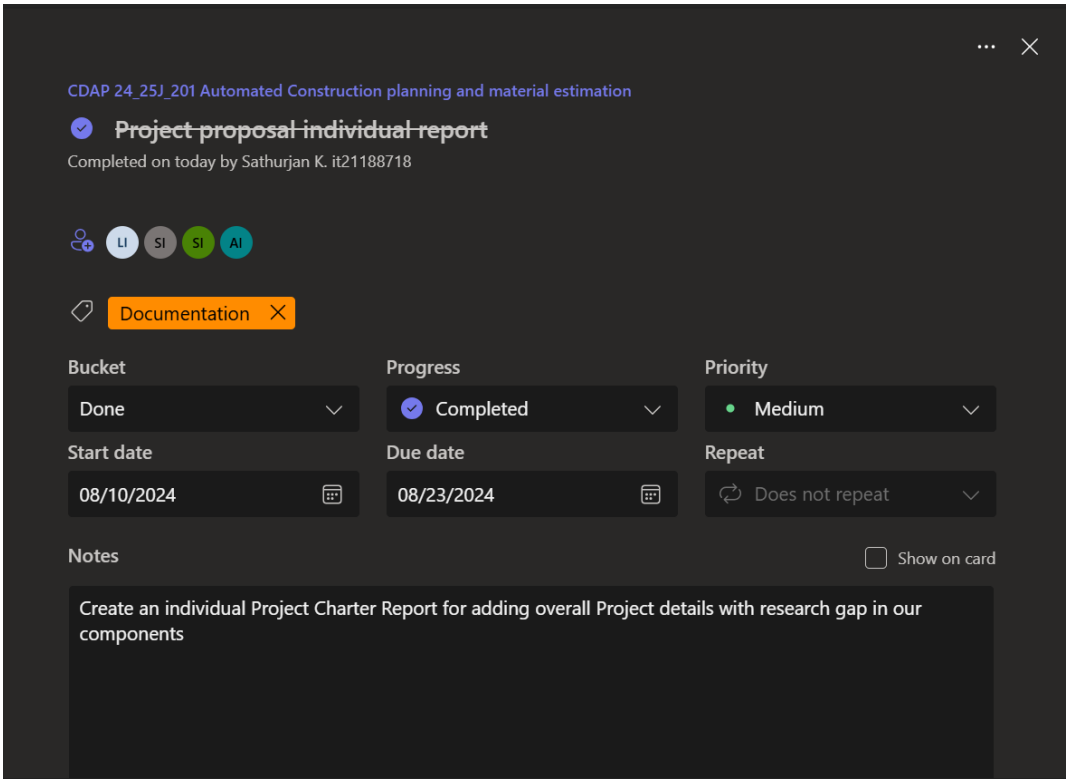
- Assign tasks and conversation highlights.
- Completed task and conversation highlights.



❖ **Completed Task and Conversation Highlights**

- Contacting Mr.Supunya Swarnakantha and Dr.Dharshana Kasthurirathna regarding the research topic.
- Writing a literature survey about the topic as requested by Mr.Supunya Swarnakantha.
- Narrowing of the scope as suggested by the Supervisor and Co-Supervisor.
- Submit proposal draft document.
- Changing the draft submission upon the advice of the supervisor.
- Accepting the proposal document.


CDAP 24_25J_201 Automated Construction planning and material estimation
Create Project Charter
Completed on 36 minutes ago by you
LI SI SI AI
High
Documentation
Bucket
Done
Progress
Completed
Priority
Medium
Start date
05/13/2024
Due date
05/24/2024
Repeat
Does not repeat
Notes
Show on card
After the TAF Submission , We received our research project panel feedback with minor changes. According to the feedback given by the panel to TAF, we changed it, obtained supervisor and co-supervisor signature and submitted it before the due date.


CDAP 24_25J_201 Automated Construction planning and material estimation
Project proposal individual report
Completed on today by Sathurjan K. it21188718
LI SI SI AI
Documentation
Bucket
Done
Progress
Completed
Priority
Medium
Start date
08/10/2024
Due date
08/23/2024
Repeat
Does not repeat
Notes
Show on card
Create an individual Project Charter Report for adding overall Project details with research gap in our components

❖ Completed Task and Conversation highlights.

- Creating the proposal document at supervisor request.
- Doing a literature review upon supervisor request.

1.4 Research Problem

The construction and real property sectors in Sri Lanka face significant inefficiencies due to guide approaches, previous methodologies, and terrible communication, main to delays, fee overruns, and faulty predictions. These challenges are specifically reported in 4 key regions, which these studies goals to deal with:

First off when picking out solar panels, folks don't have the right gear to figure out the best ones based on how big their land is where it's at, or the weather around them. This makes it hard to get the kind of energy setup that does the job well. The stuff out there now, from references isn't cutting it because it doesn't give advice that considers Sri Lanka's hot and wet weather, with all its rainy seasons and sticky air messing with how well solar panels do their thing.

Second, folks dealing with property in Colombo find it tough to guess prices right because they change so much. The old way of doing things just isn't cutting it, with all the different types of houses and places making it even harder to nail down the best moves for putting your money into property. The current ways—stuff from sources just isn't built for the ups and downs of Sri Lanka's money scene so the price guesses they make aren't too solid.

As for the third bit figuring out how much it's going to cost to build stuff is super tricky. The way people do it now just doesn't factor in all the changing prices for stuff you need, like materials and people to do the work. In Sri Lanka, the cash situation is all over the place so not getting this right means you could end up spending way more than you thought. The tools folks have right now, those things from just can't keep up with all the changes as they happen, and that's just making everything worse.

In the end, teaming up on interior design projects hits a snag when clients and designers don't speak the same language about tech stuff. Clients can't get their technical tastes across, which messes things up and slows everything down. The platforms out there, like numbers 16 to 20, haven't got the high-tech AI needed to fix this problem. So, the design workflow in Sri Lanka isn't as smooth or happy as it could

These challenges are combined by Sri Lanka's unique socio-economic and environmental context, which fails to address the existing systems widely. Economic instability, such as inflation rate in recent years, directly affects the price of material costs and real estate, though most ML models are not designed to control such instability. Similarly, with tropical climates, with its rain and moisture, affects the efficiency and timelines of the solar panel, but solar recommendation systems are rarely responsible for these factors in terms of Sri Lanka.

Moreover, lack of integration in these fields creates a fragmented approach to construction planning. For example, the decision to install solar panels affects construction costs, though

❖ **Proposed Solar Panel Recommendation and Cost Estimation System.**

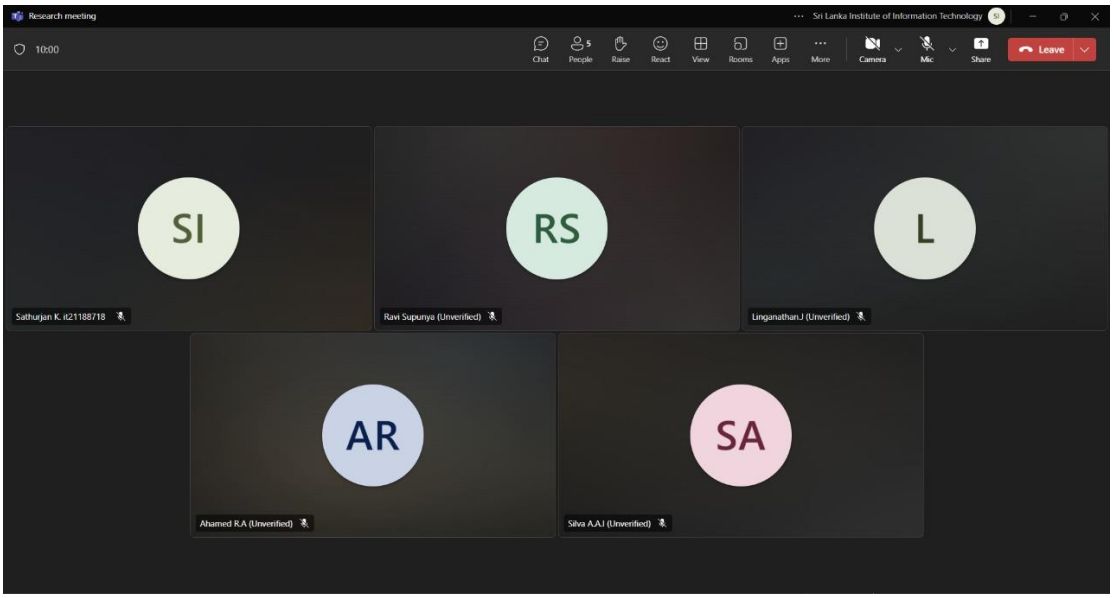
MEMBER 3	Ahamed R A

Construction Cost Estimation

- The main purpose of the Construction Cost Estimation component is to provide users with accurate predictions of building costs based on factors such as location, building size, material selection, and labor availability. This helps users plan budgets effectively and make informed decisions before starting construction projects.
- The system uses algorithms such as linear regression, random forest, and artificial neural networks to estimate construction costs by analyzing historical construction data, current material and labor prices, and project specifications.
- This technology considers both static factors (like building type and size) and dynamic factors (like real-time market rates and regional labor costs) to deliver reliable, data-driven cost estimations.
- User inputs key construction details such as project type (residential/commercial), location, total floor area, preferred materials, and expected duration.
- The system collects relevant historical cost data, real-time prices for materials and labor, and any region-specific cost variations.
- The data is processed using trained ML models that identify cost patterns and dependencies based on the provided project details.
- A predicted total cost is generated for the construction project, including material, labor, equipment, and contingency expenses.
- The system presents a detailed cost breakdown, including component-wise estimates and potential cost-saving alternatives.
- Optional forecasting tools may display future cost trends based on inflation, supply chain changes, or market demand.
- Overall, the Construction Cost Estimation module improves budgeting accuracy and financial planning in construction projects. It empowers users to make data-driven decisions by integrating real-time pricing, predictive analytics, and historical insights.

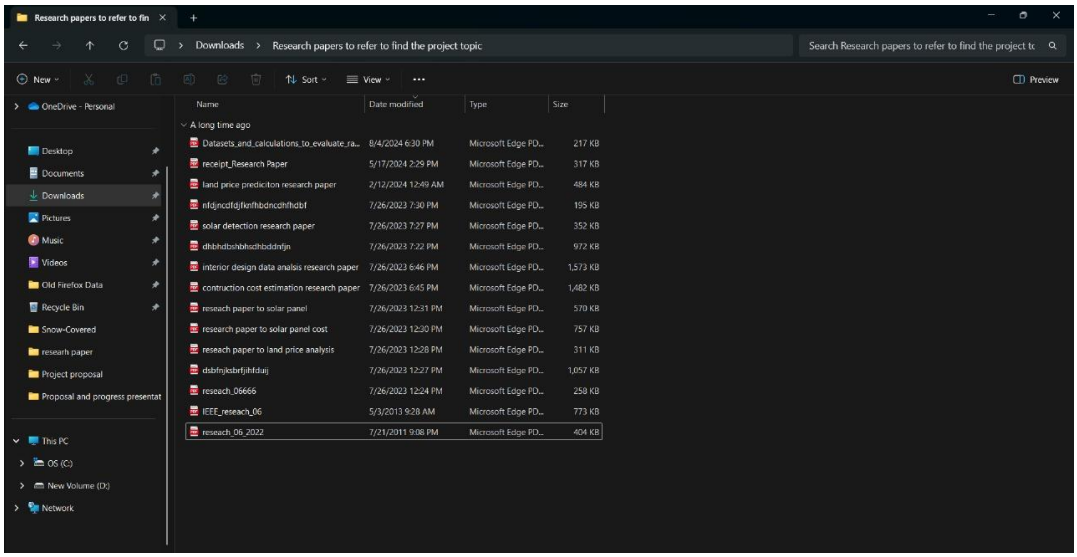
❖ Completed Task and Conversation Highlights.

- Determining the components for each member and discussing with the Supervisor.
- Fine tuning the scope for each component.
- Discussing the proposed components with Supervisor.



❖ Completed Task and Conversation Highlights.

- Find the Related research paper for individual Land and house price prediction Component.
- Get a full idea of each research paper.
- Mark down the not covering Land and house price prediction
- Estimation areas in these research papers.
- Identify the novelty parts of each individual component.
- Creating the Topic Assignment Form (TAF)
- Getting the approval from the Supervisor.



VI. References

[1] M.shankar, "Analysis of Landlord's Land Price Prediction using Machine Learning," in *IEEE*.

[2] M. Ma, Y. Zhang, and X. Xu, " Urban-scale land value prediction using non-linear machine learning approaches," *Journal of Urban Planning and Development*, vol. 146, no. no. 4, 2020.

[3] Zhang, X., Li, Q., & Wang, J., "IoT-Driven Construction Cost Estimation Using Machine Learning: A Real-Time Approach.," *Automation in Construction*, p. 112, 2020.

[4] Kim, J., Lee, H., & Park, S., "Application of Artificial Neural Networks in Construction Cost Estimation: A Case Study of High-Rise Building Projects.," *Journal of Construction Engineering and Management,*, 2019.

[5] Son, H., & Kim, C. , "Hybrid Principal Component Analysis and Support Vector Machine Model forPredicting the Cost Performance of Commercial Building Projects Using Pre-Project Planning Variables.," *Automation in Construction*, 2010.

[6] Kim, G. H., An, S. H., & Kang, K. I., "Comparison of Construction Cost Estimating Models Based on Regression Analysis, Neural Networks, and Case-Based Reasoning.," *Building and Environment*, 2004.

[7] McMahon, S., & Smith, R., " Enhancing Construction Cost Estimation Accuracy Through Machine Learning and Big Data Integration.," *Journal of Construction Research*, 2018.

[8] S. Rafiei and M. Adeli, "Predicting home prices using Support Vector Regression," *Computational Intelligence and Neuroscience*, 2016.

[9] A. Koktashev, I. K. Koc, and H. A. Aslantas, "A comparative study on housing price prediction," *Applied Soft Computing Using machine learning algorithms* , 2019.

[10] M. Park and H. Bae, "Real estate price prediction using machine learning algorithms," *Computers, Environment and Urban Systems*, vol. 49, pp. 33-44, 2015.

s[11] T. Huld, R. Müller, and A. Gambardella, "A new solar radiation database for estimating PV performance in Europe and Africa," *Solar Energy*, vol. 86, pp. 1803-1815, 2012.

[12] B. M. Kumar and K. Sudhakar , "Performance analysis of 10 MW grid connected solar photovoltaic power plant in India," *Energy Reports*, pp. 184-192, 2015.

[13] K. R. Khyati, A. K. Tripathi, and V. Khare, "Predictive modeling of solar photovoltaic efficiency using machine learning techniques," *IEEE*, vol. 9.

[14] M. Eltawil and Z. Zhao, "Grid-connected photovoltaic power systems: Technical and potential problems—A review," *Renewable and Sustainable Energy Reviews*, vol. 14, 2010.

[15] P. F. Katiraei, P. L. Ping, and W. Li, "Machine learning-based prediction models for solar panel performance evaluation," *in Proc. IEEE Int. Conf. Smart Grid Communications (SmartGridComm*, pp. 162-169, 2020.

[16] S. Das, A. Dutta, and A. B. Mandal, "Cost-effective solar power system design using predictive analytics," *IEEE Transactions on Sustainable Energy*, vol. 12, pp. 2942-2951, 2021.

[17] J. Zhang, H. Guo, and T. Zhang, "Short-term solar power forecasting based on deep learning," *IEEE Transactions on Smart Grid*, vol. 11, pp. 2816-2825, 2020.

[18] L. Xu, X. Wang, and C. Liu, "Optimal sizing and economic analysis of a photovoltaic-battery system considering time-of-use pricing," *Applied Energy* , vol. 280, 2020.

[19] Y. . Z. D. T. a. J. W. Zhe Xu, "Architectural Style Classification Using Multinomial Latent Logistic Regression," 2014. [Online]. Available: https://www.researchgate.net/publication.

[20] M. . S. M. R. E. a. T. H. K. Nima Norouzi, "The Architect, the Client and Effective Communication in Architectural Design Practice," 2015.

[21] M. . S. M. R. B. E. a. T. H. K. Nima Norouzi, "The Architect, the Client and Effective Communication in Architectural Design Practice," 2015.

[22] S. . I. M. H. W. a. W. N. M. W. M. R. Hala Taleb, "Communication management between architects and clients," 2017.

[23] "UMITRUX, Architectural Styles," 2020. [Online]. Available: https://www.kaggle.com/datasets/dumitrux/architectural-styles-dataset..

SLIIT UNI
THE KNOWLEDGE UNIVERSITY

IT4010 – Research Project - 2024

Topic Assessment Form

Project ID: 24-25J-201

1. Topic (12 words max)

Machine Learning based Automated Construction Planning system for Sri Lanka

2. Research group the project belongs to

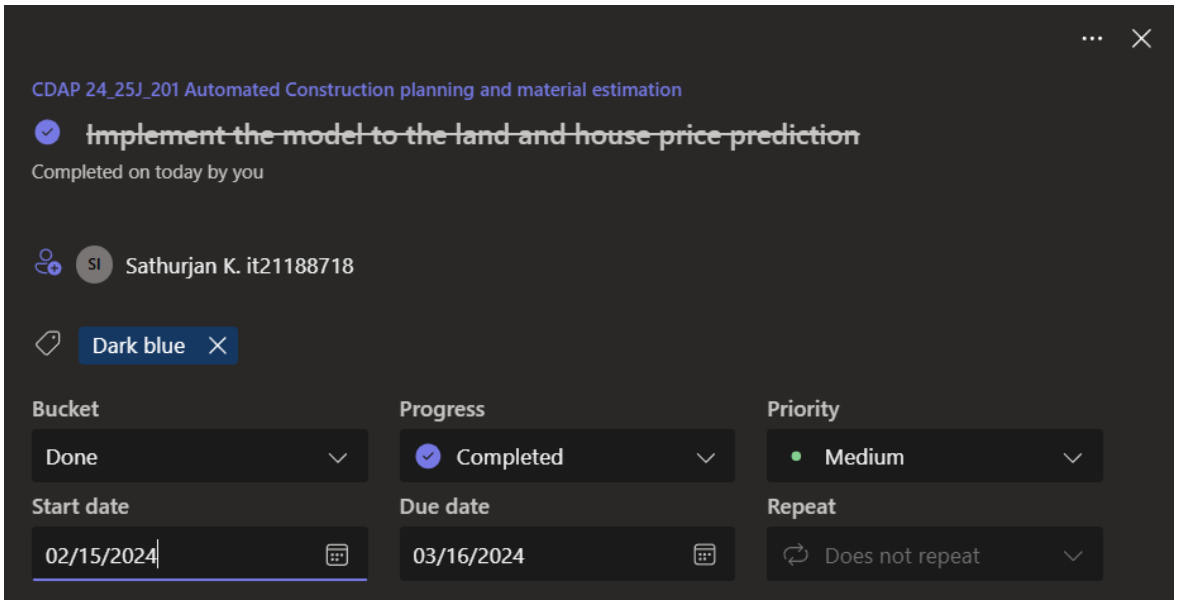
Software Systems & Technologies (SST)

3. Research area the project belongs to

ICT for Development (ICTD)

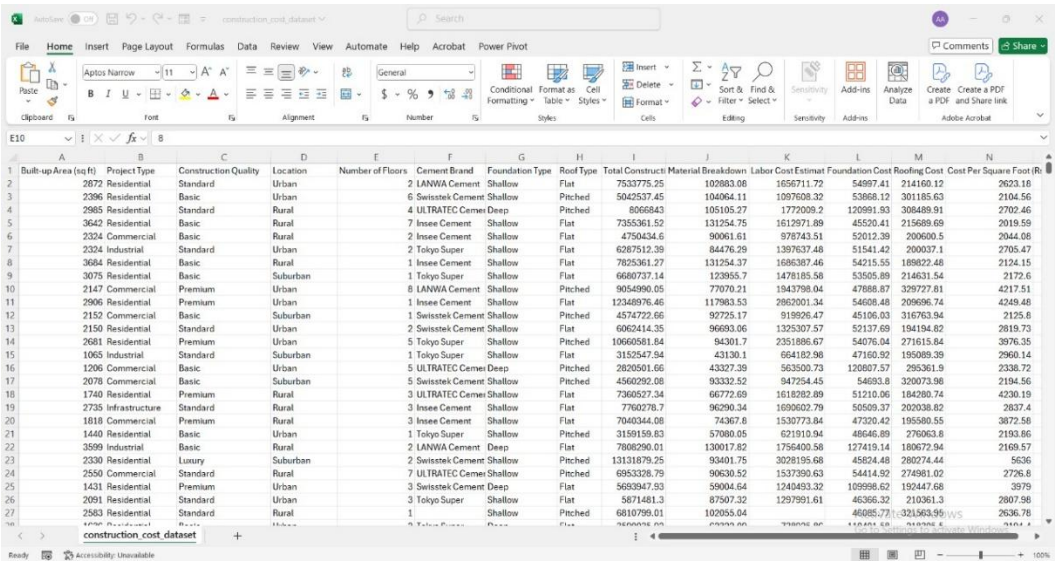
❖ Complete Task and Conversation Highlights

- Reading research papers related to time series prediction.
- Reading documentation of Land and house price prediction and understanding which data set could be taken.
- Developing different models for prediction of time series.



❖ Completed Task and Conversation Highlights

- Finding the sample dataset until system develop.
- Discussing with the supervisor the potential model and its accuracy and which model we should proceed with for the prediction.

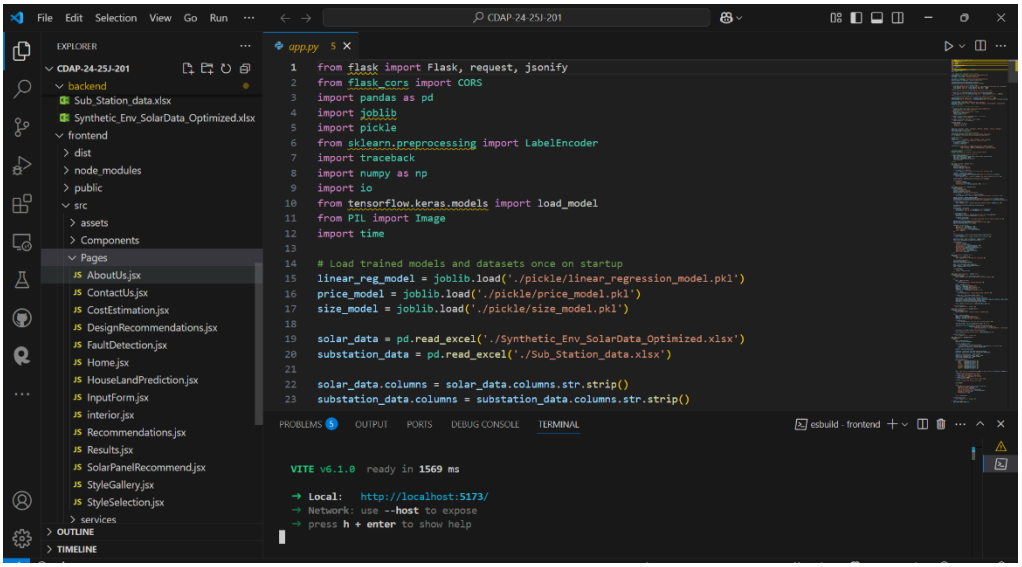


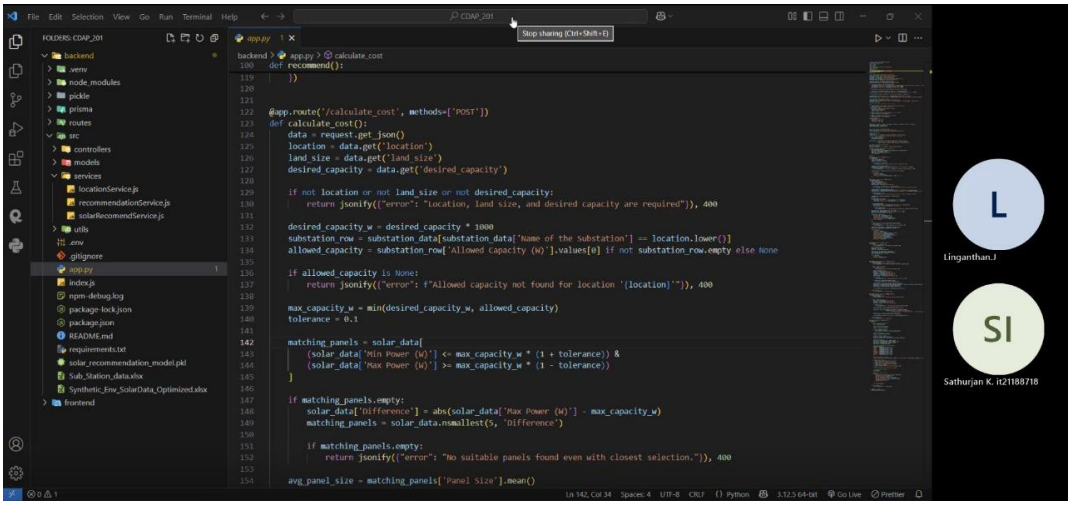
Built-up Area (sq ft)	Project Type	Construction Quality	Location	Number of Floors	Cement Brand	Foundation Type	Roof Type	Total Constructi	Material Breakdown	Labor Cost Estimat	Foundation Cost	Roofing Cost	Cost Per Square Foot (R
2872	Residential	Standard	Urban	2	LANWA Cement	Shallow	Flat	7533775.25	102883.08	1656711.72	54997.41	214160.12	2623.18
2396	Residential	Basic	Urban	6	Swisstek Cement	Shallow	Pitched	5042537.45	104064.11	1097608.32	53868.12	301185.63	2104.56
2985	Residential	Standard	Rural	4	ULTRATEC Cemer	Deep	Pitched	8066843	105105.27	1772009.2	120991.93	308489.91	2702.46
3642	Residential	Basic	Rural	7	Insee Cement	Shallow	Flat	7355361.52	131254.75	1612971.89	45520.41	215689.69	2019.59
2324	Commercial	Basic	Rural	2	Insee Cement	Shallow	Flat	4750434.6	90061.61	978743.51	52012.39	200600.5	2044.08
2324	Industrial	Standard	Urban	2	Tokyo Super	Shallow	Flat	6287512.39	84476.29	1397637.48	51541.42	200037.1	2705.47
3684	Residential	Basic	Rural	1	Insee Cement	Shallow	Flat	7825361.27	131254.37	1686387.46	54215.55	189822.48	2124.15
3075	Residential	Basic	Suburban	1	Tokyo Super	Shallow	Flat	6680737.14	123955.7	1478185.58	53505.89	214631.54	2172.6
2147	Commercial	Premium	Urban	8	LANWA Cement	Shallow	Pitched	9054990.05	77070.21	1943798.04	47888.87	329727.81	4217.51
2906	Residential	Premium	Urban	1	Insee Cement	Shallow	Flat	12348976.46	117983.53	2862001.34	54608.48	209696.74	4249.48
2152	Commercial	Basic	Suburban	1	Swisstek Cement	Shallow	Pitched	4574722.66	92725.17	919926.47	45106.03	316763.94	2125.8
2150	Residential	Standard	Urban	2	Swisstek Cement	Shallow	Flat	6062414.35	96693.06	1325307.57	52137.69	194194.82	2819.73
2681	Residential	Premium	Urban	5	Tokyo Super	Shallow	Pitched	10660581.84	94301.7	2351886.67	54076.04	271615.84	3976.35
1065	Industrial	Standard	Suburban	1	Tokyo Super	Shallow	Flat	3152547.94	43130.1	664182.98	47160.92	195089.39	2960.14
1206	Commercial	Basic	Urban	5	ULTRATEC Cemer	Deep	Pitched	2820501.66	43327.39	563500.73	120807.57	295361.9	2338.72
2078	Commercial	Basic	Suburban	5	Swisstek Cement	Shallow	Pitched	4560292.08	93332.52	947254.45	54693.8	320073.96	2194.56
1740	Residential	Premium	Rural	3	ULTRATEC Cemer	Shallow	Flat	7360527.34	66772.69	1618282.89	51210.06	184280.74	4230.19
2735	Infrastructure	Standard	Rural	3	Insee Cement	Shallow	Flat	7760278.7	96290.34	1690602.79	50509.37	202038.82	2837.4
1818	Commercial	Premium	Rural	3	Insee Cement	Shallow	Flat	7040344.08	74367.8	1530773.84	47320.42	195580.55	3872.58
1440	Residential	Basic	Urban	1	Tokyo Super	Shallow	Pitched	3159159.83	57080.05	621910.94	48646.89	276063.8	2193.86
3599	Industrial	Basic	Rural	2	LANWA Cement	Deep	Flat	7808290.01	130017.82	1756400.58	127419.14	180672.94	2169.57
2330	Residential	Luxury	Suburban	2	Swisstek Cement	Shallow	Pitched	13131879.25	93401.75	3028195.68	45824.48	280274.44	5636
2550	Commercial	Standard	Rural	7	ULTRATEC Cemer	Shallow	Pitched	6953328.79	90630.52	1537390.63	54414.92	274981.02	2726.8
1431	Residential	Premium	Urban	3	Swisstek Cement	Deep	Flat	5693947.93	59004.64	1240493.32	109998.62	192447.68	3979
2091	Residential	Standard	Urban	3	Tokyo Super	Shallow	Flat	5871481.3	87507.32	1297991.61	46366.32	210361.3	2807.98
2583	Residential	Standard	Rural	1		Shallow	Pitched	6810799.01	102055.04		46085.77	321563.95	2636.78

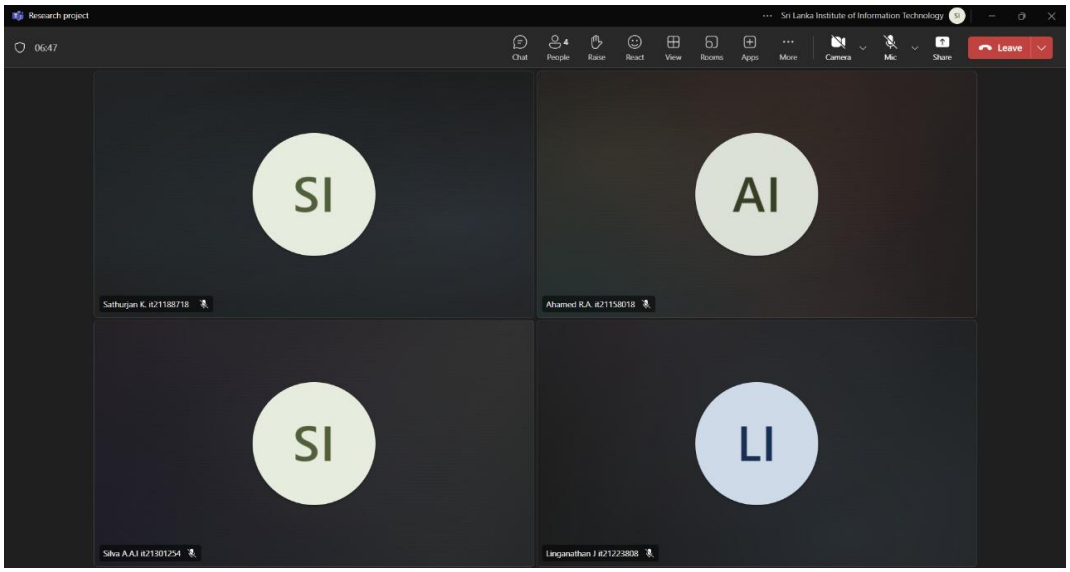
construction_cost_dataset

```
# Define a function to evaluate models
def evaluate_model(model, X_test, y_test):
    predictions = model.predict(X_test)
    mae = mean_absolute_error(y_test, predictions)
    mse = mean_squared_error(y_test, predictions)
    rmse = np.sqrt(mse)
    r2 = r2_score(y_test, predictions)
    print(f"MAE: {mae}, MSE: {mse}, RMSE: {rmse}, R2_SCORE: {r2}")

# Evaluate Linear Regression
print("Linear Regression Evaluation:")
evaluate_model(linear_model, X_test, y_test)

# Evaluate Decision Tree Regressor
print("\nDecision Tree Evaluation:")
evaluate_model(dt_model, X_test, y_test)

# Evaluate Neural Network (MLP)
print("\nNeural Network Evaluation:")
print("MAE:", mae, "MSE:", mse, "RMSE:", rmse, "R2_SCORE:", r2)
```

```
Linear Regression Evaluation:
MAE: 139150.33287103343, MSE: 94446337966.15373, RMSE: 307321.229279973, R2_SCORE: 0.9898372733722975

Decision Tree Evaluation:
MAE: 37040.14638780513, MSE: 93938417887.73921, RMSE: 306493.7485296221, R2_SCORE: 0.9898919271896589

Neural Network Evaluation:
MAE: 90043.54524722611 MSE: 58620912470.31687 RMSE: 242117.55919453027 R2_SCORE: 0.9936922032030951
```

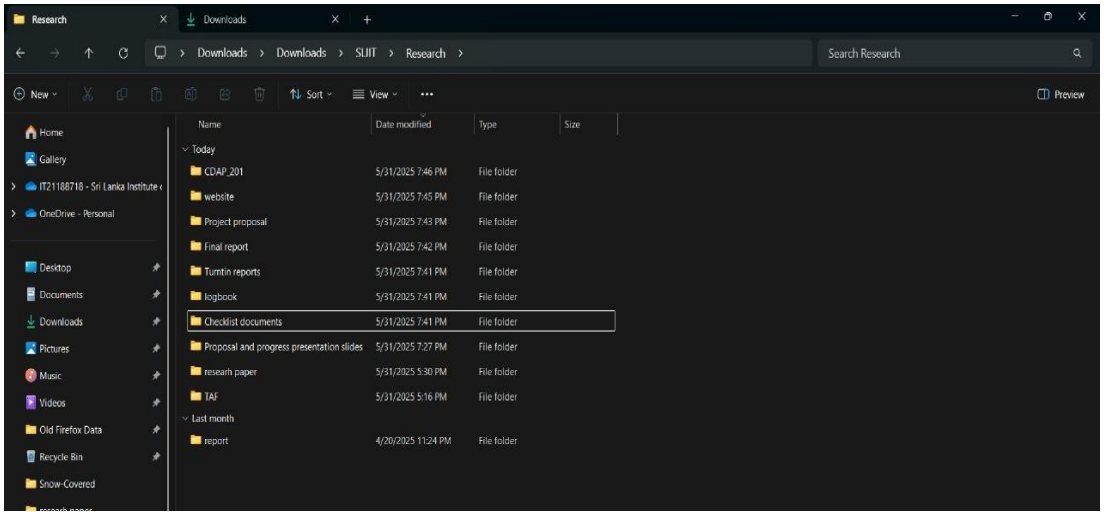

File Edit Selection View Go Run
CDAP-24-25J-201
EXPLORER
app.py 5
backend
Sub_Station_data.xlsx
Synthetic_Env_SolarData_Optimized.xlsx
frontend
dist
node_modules
public
src
assets
Components
Pages
AboutUs.jsx
ContactUs.jsx
CostEstimation.jsx
DesignRecommendations.jsx
FaultDetection.jsx
Home.jsx
HouseLandPrediction.jsx
InputForm.jsx
interior.jsx
Recommendations.jsx
Results.jsx
SolarPanelRecommend.jsx
StyleGallery.jsx
StyleSelection.jsx
services
OUTLINE
TIMELINE
from flask import Flask, request, jsonify
from flask_cors import CORS
import pandas as pd
import joblib
import pickle
from sklearn.preprocessing import LabelEncoder
import traceback
import numpy as np
import io
from tensorflow.keras.models import load_model
from PIL import Image
import time
# Load trained models and datasets once on startup
linear_reg_model = joblib.load('./pickle/linear_regression_model.pkl')
price_model = joblib.load('./pickle/price_model.pkl')
size_model = joblib.load('./pickle/size_model.pkl')
solar_data = pd.read_excel('./Synthetic_Env_SolarData_Optimized.xlsx')
substation_data = pd.read_excel('./Sub_Station_data.xlsx')
solar_data.columns = solar_data.columns.str.strip()
substation_data.columns = substation_data.columns.str.strip()
PROBLEMS 5 OUTPUT PORTS DEBUG CONSOLE TERMINAL
esbuild - frontend
VITE v6.1.0 ready in 1569 ms
Local: http://localhost:5173/
Network: use --host to expose
press h + enter to show help

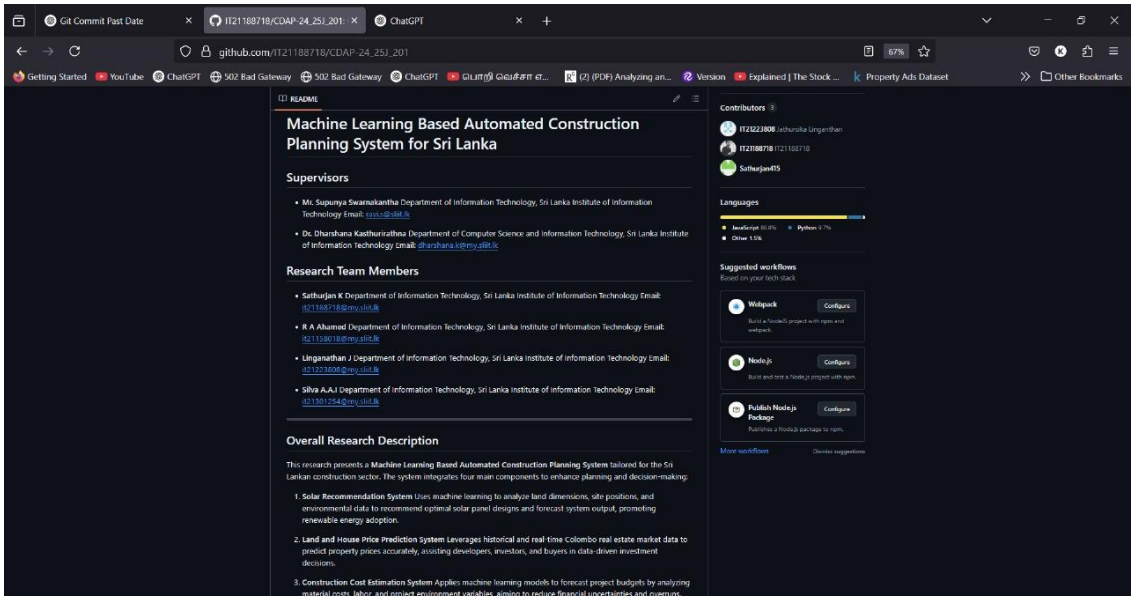

Stop sharing (Ctrl+Shift+E)
def recommend():
@app.route('/calculate_cost', methods=['POST'])
def calculate_cost():
data = request.get_json()
location = data.get('location')
land_size = data.get('land_size')
desired_capacity = data.get('desired_capacity')
if not location or not land_size or not desired_capacity:
return jsonify({"error": "Location, land size, and desired capacity are required"}), 400
desired_capacity_w = desired_capacity * 1000
substation_row = substation_data[substation_data['Name of the Substation'] == location.lower()]
allowed_capacity = substation_row['Allowed Capacity (W)'].values[0] if not substation_row.empty else None
if allowed_capacity is None:
return jsonify({"error": f"Allowed capacity not found for location '{location}'"}), 400
max_capacity_w = min(desired_capacity_w, allowed_capacity)
tolerance = 0.1
matching_panels = solar_data[
(solar_data['Min Power (W)'] <= max_capacity_w * (1 + tolerance)) &
(solar_data['Max Power (W)'] >= max_capacity_w * (1 - tolerance))
]
if matching_panels.empty:
solar_data['Difference'] = abs(solar_data['Max Power (W)'] - max_capacity_w)
matching_panels = solar_data.nsmallest(5, 'Difference')
if matching_panels.empty:
return jsonify({"error": "No suitable panels found even with closest selection."}), 400
avg_panel_size = matching_panels['Panel Size'].mean()
L
Linganthan.J
SI
Sathurjan K. it21188718


Research project
Sri Lanka Institute of Information Technology
06:47
Chat
People
Raise
React
View
Rooms
Apps
More
Camera
Mic
Share
Leave
SI
AI
Sathurjan K. it21188718
Ahamed R.A it21158018
SI
LI
Silva A.A.I it21301254
Linganathan J it21223808

❖ Complete Tasks and Conversation Highlights

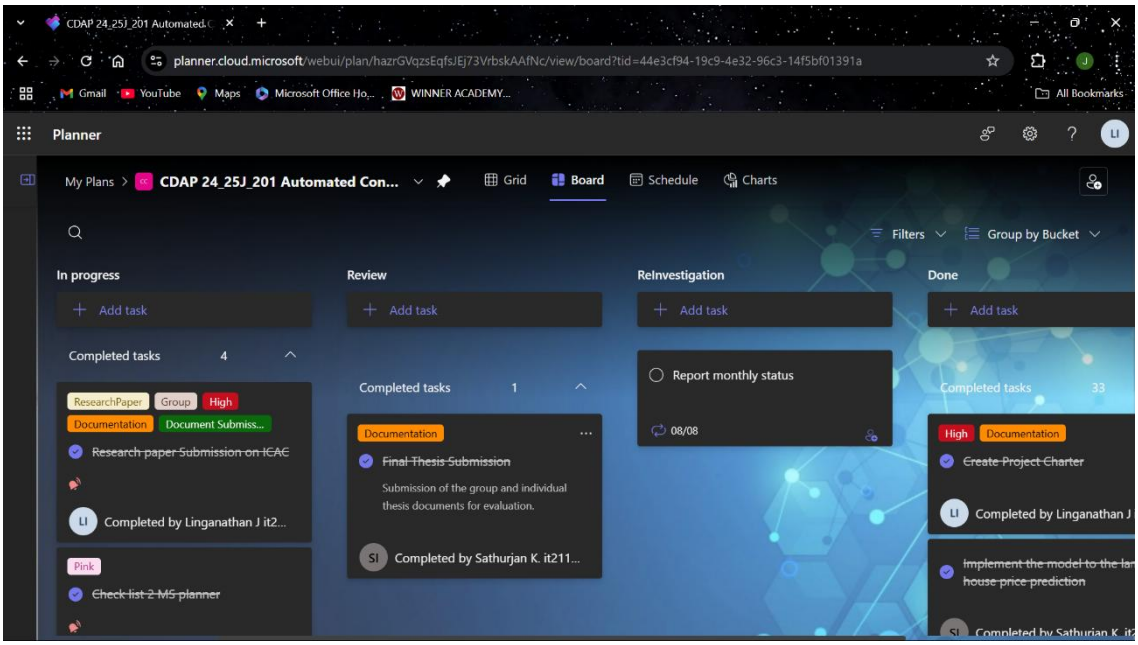
- Creating initial project folder structure.
- Adding the readme files, configuration files and setup instructions for the project.
- Initializing the startup scripts.

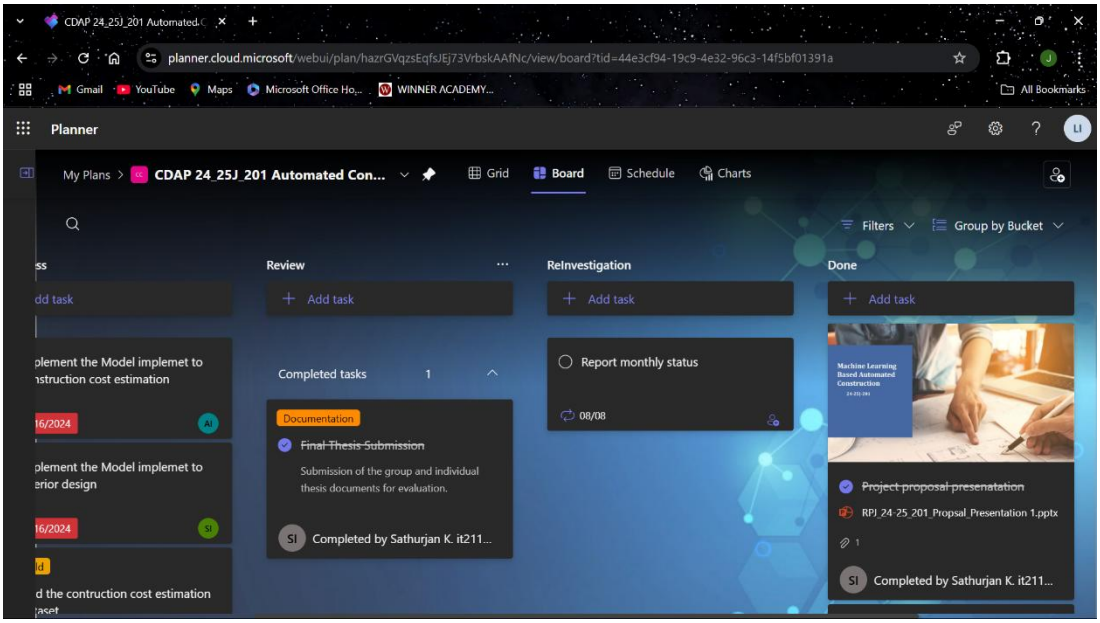


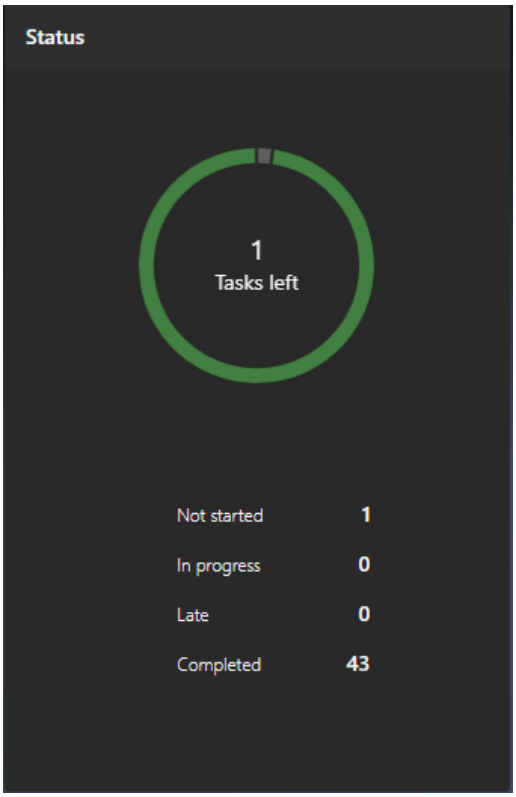


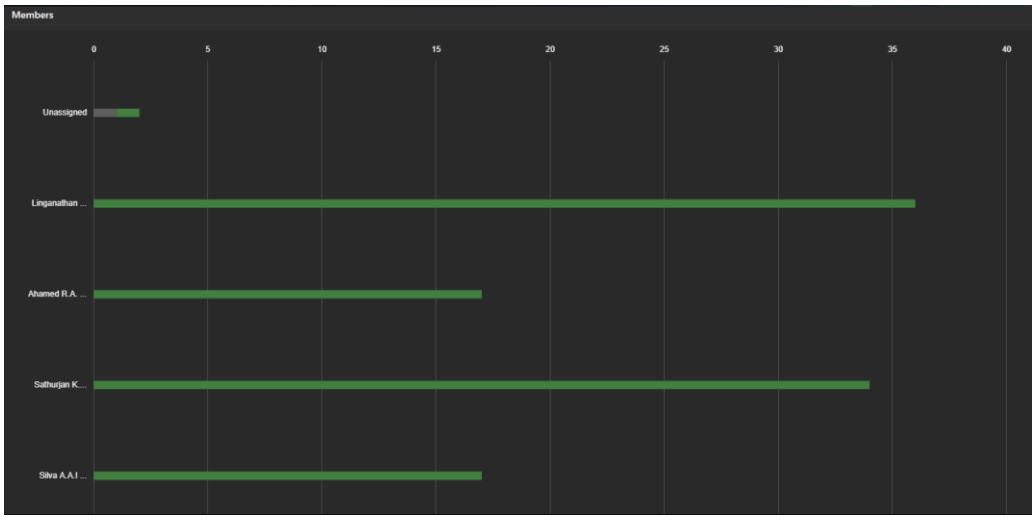
❖ Complete Tasks and Conversation Highlights

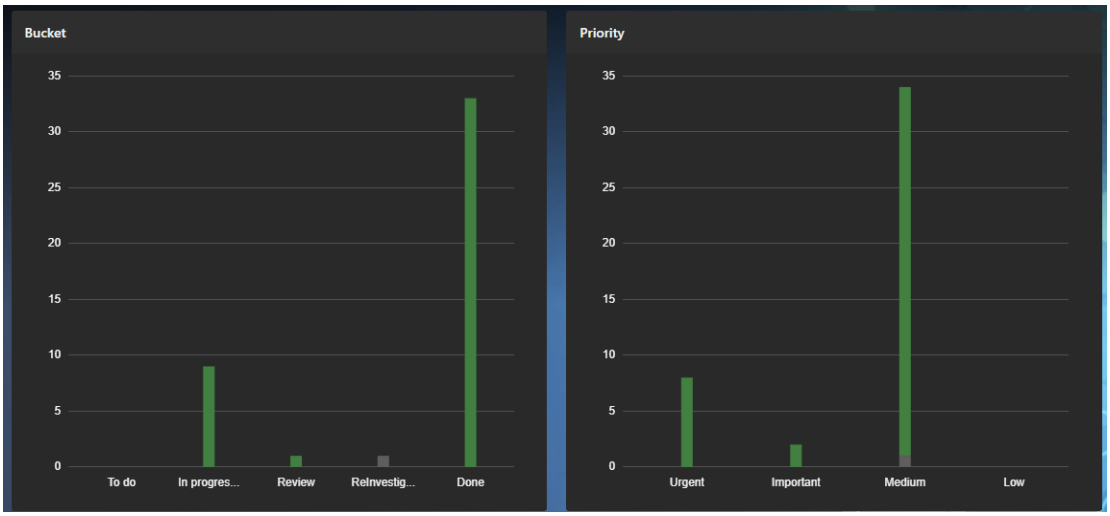
- Meeting with the research team and deciding the implementation milestone on Microsoft planner.
- The tasks were labeled so that it's easy to filter the important tasks.

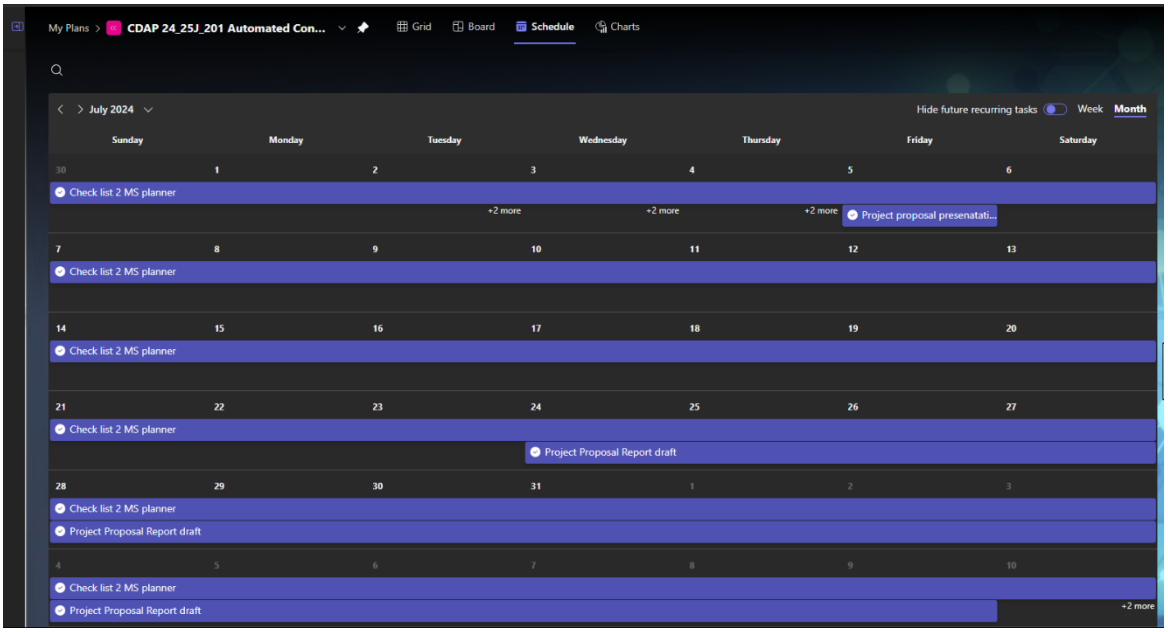





Status
1
Tasks left
Not started 1
In progress 0
Late 0
Completed 43

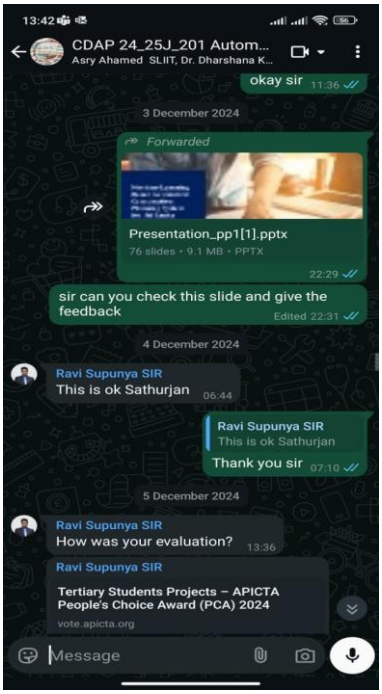

Members
0
5
10
15
20
25
30
35
40
Unassigned
Linganathan ...
Ahamed R.A. ...
Sathurjan K....
Silva A.A.I ...

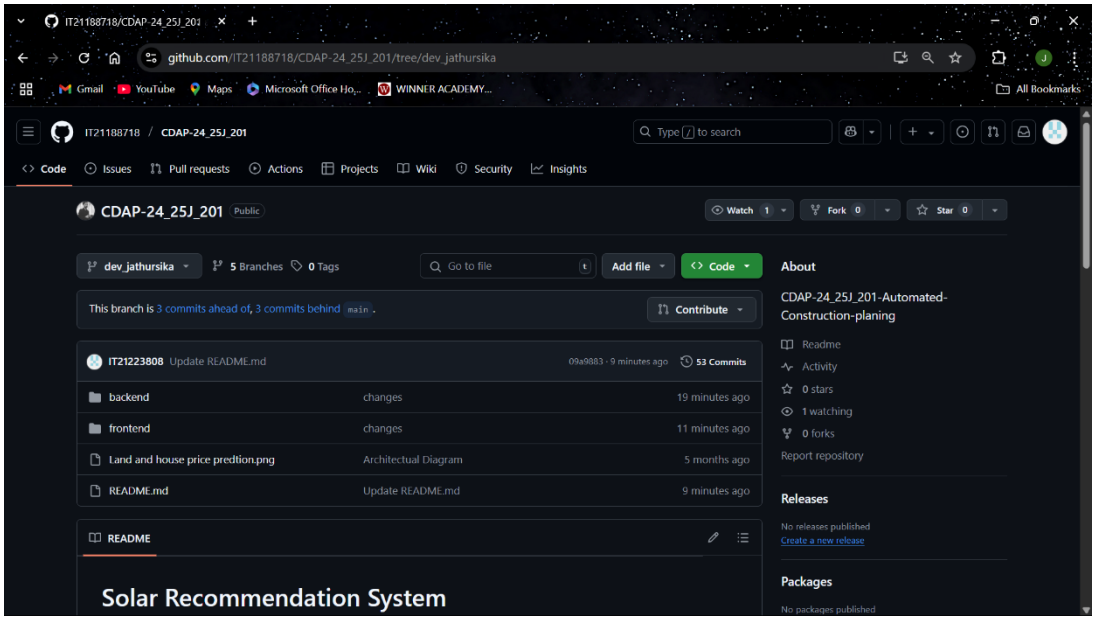

Bucket
35
30
25
20
15
10
5
0
To do
In progres...
Review
ReInvestig...
Done
Priority
35
30
25
20
15
10
5
0
Urgent
Important
Medium
Low


My Plans
CDAP 24_25J_201 Automated Con...
Grid
Board
Schedule
Charts
July 2024
Hide future recurring tasks
Week
Month
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Check list 2 MS planner
+2 more
+2 more
+2 more
Project proposal presenatati...
Check list 2 MS planner
Check list 2 MS planner
Check list 2 MS planner
Project Proposal Report draft
Check list 2 MS planner
Project Proposal Report draft
Check list 2 MS planner
Project Proposal Report draft
+2 more

❖ Completed Tasks and Conversation Highlights

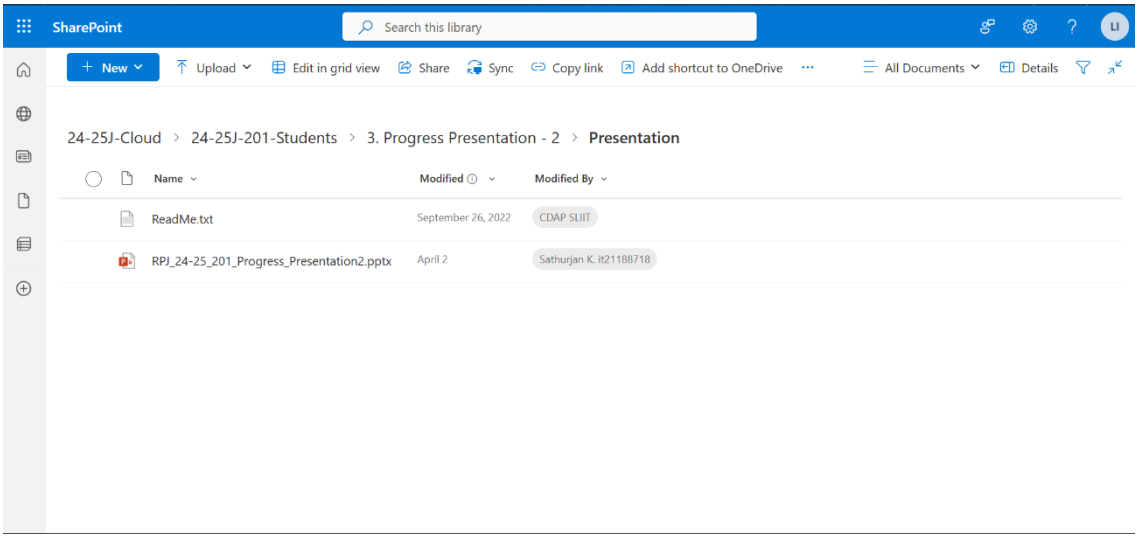
- Prepare for Progress Presentation 1 (PP1).
- Creating the presentation.
- Finalizing the GitLab Projects.
- Communication with the supervisor after finalizing the project.

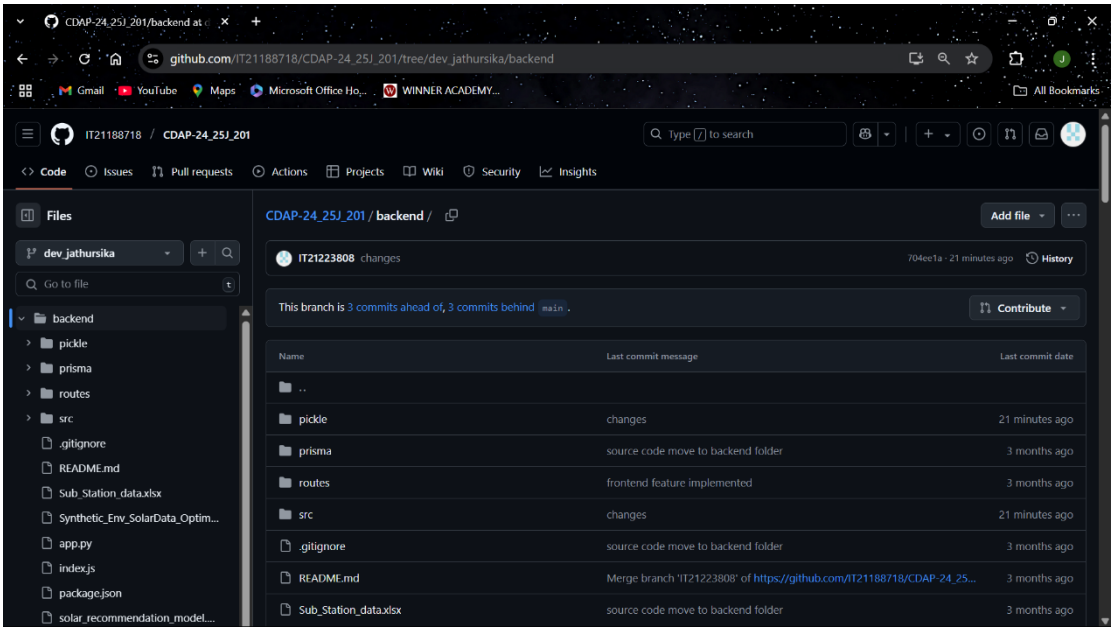




❖ Completed Task and Conversation Highlights

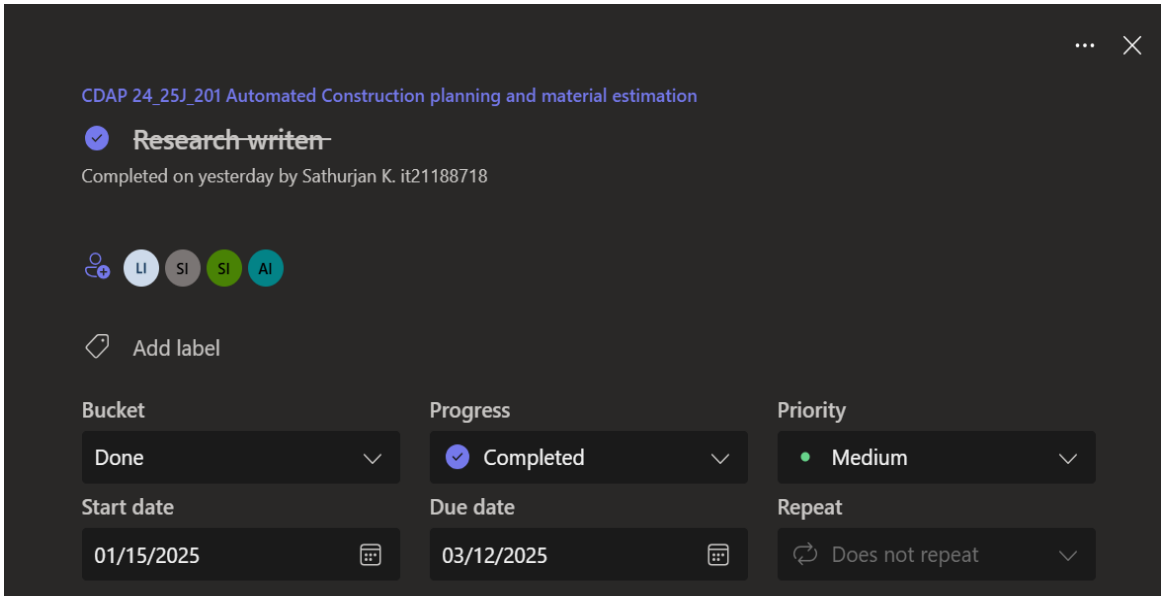
- Prepare for Progress Presentation 2 (PP2).
- Creating the presentation.
- Finalizing the GitHub Projects.
- Communication with the supervisor after finalizing the project.

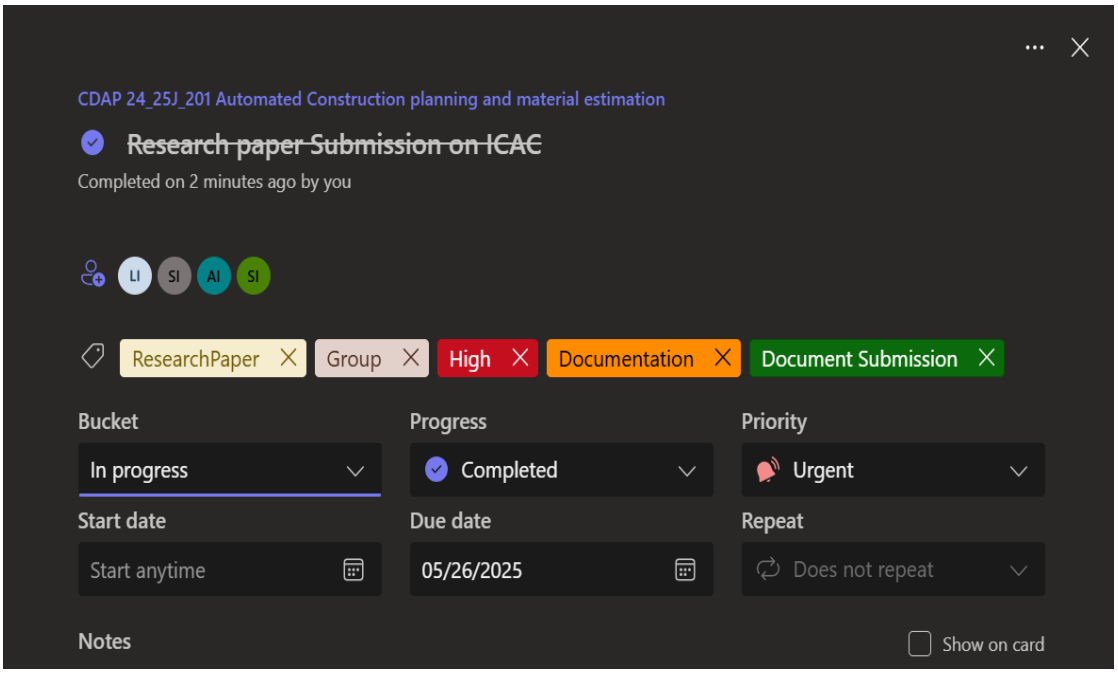


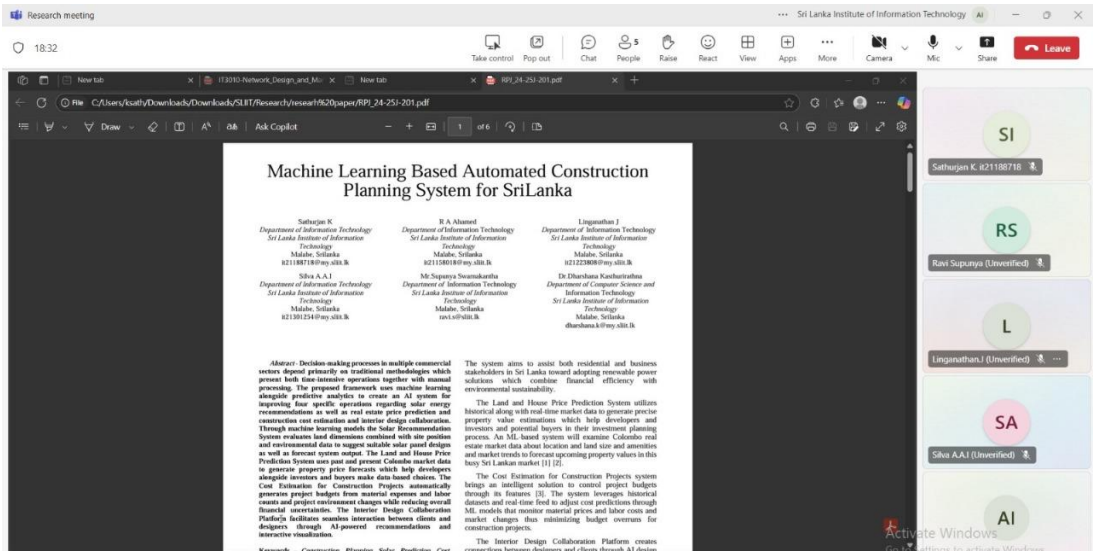


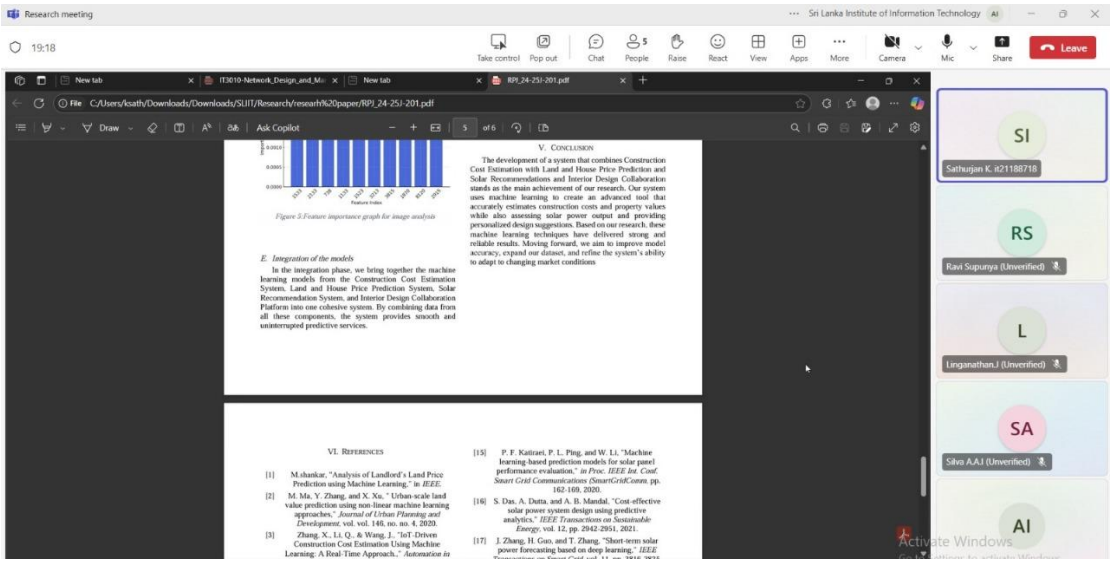
❖ Completed Task and Conversation Highlights

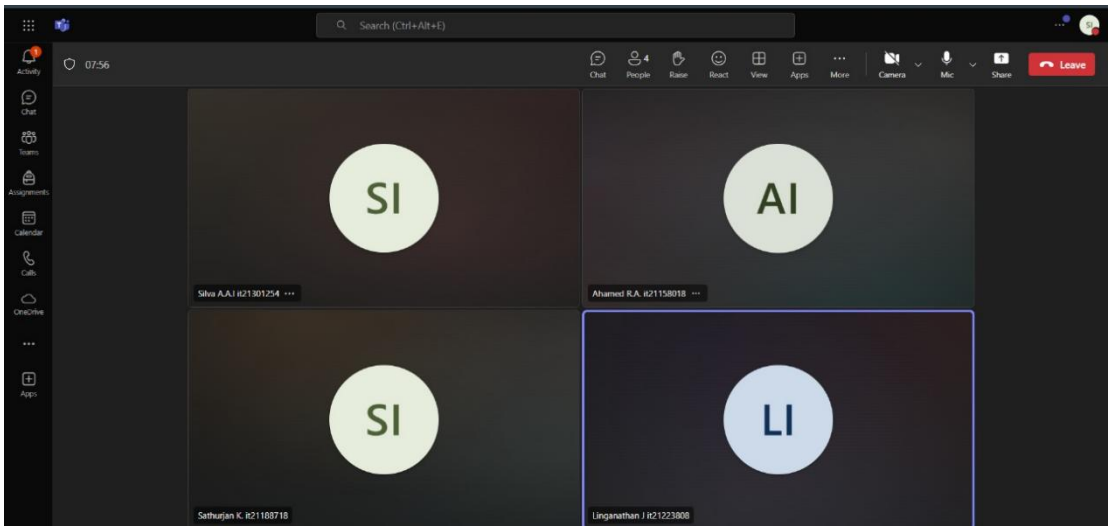
- Started writing the research paper.
- Exploring Mendeley tool.
- Exploring the IEEE standards and word tools.
- Communicating with supervisor and getting the supervisor feedback.
- Attending Prof. Dasuni Nawinna's Session on how to write a good research paper.
- Writing 3 separate research papers for:




CDAP 24_25J_201 Automated Construction planning and material estimation
Research paper Submission on ICAC
Completed on 2 minutes ago by you
LI SI AI SI
ResearchPaper
Group
High
Documentation
Document Submission
Bucket
In progress
Progress
Completed
Priority
Urgent
Start date
Start anytime
Due date
05/26/2025
Repeat
Does not repeat
Notes
Show on card

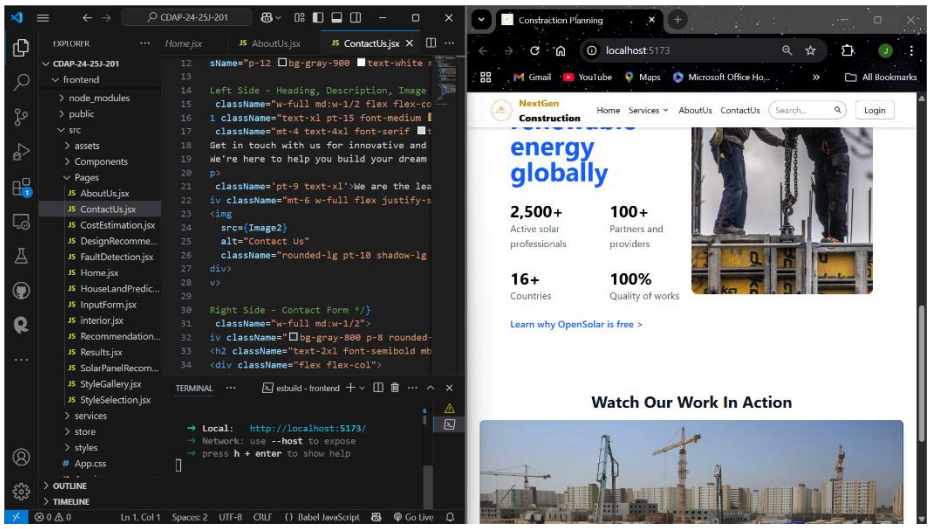

Research meeting
Machine Learning Based Automated Construction Planning System for SriLanka
SI
RS
L
SA
AI


Research meeting
Sri Lanka Institute of Information Technology
19:18
Leave
Sathurjan K. it21188718
Ravi Supunya (Unverified)
Linganathan.J (Unverified)
Silva A.A.I (Unverified)
V. Conclusion
E. Integration of the models
VI. References


07:56
Leave
Silva A.A.I it21301254
Ahamed R.A. it21158018
Sathurjan K. it21188718
Linganathan J it21223808

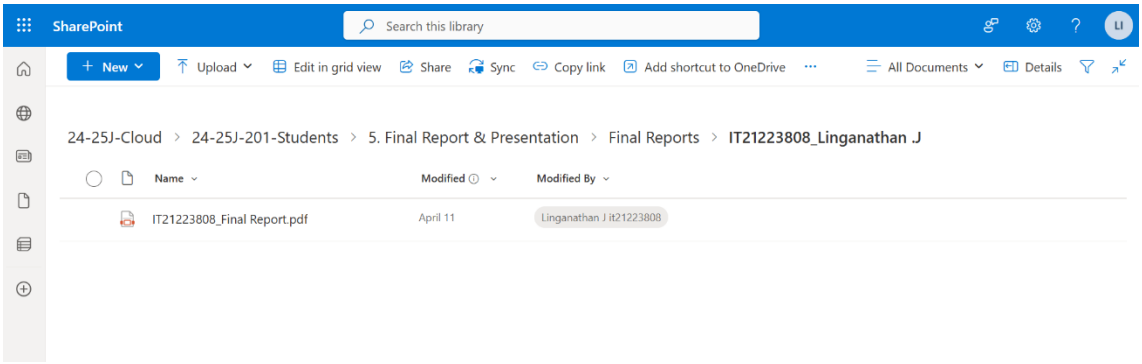
❖ Completed Tasks and Conversation Highlights

- Creating the front-end of the application.
- Integration of all the components.
- Discussing the supervisor's suggestions.



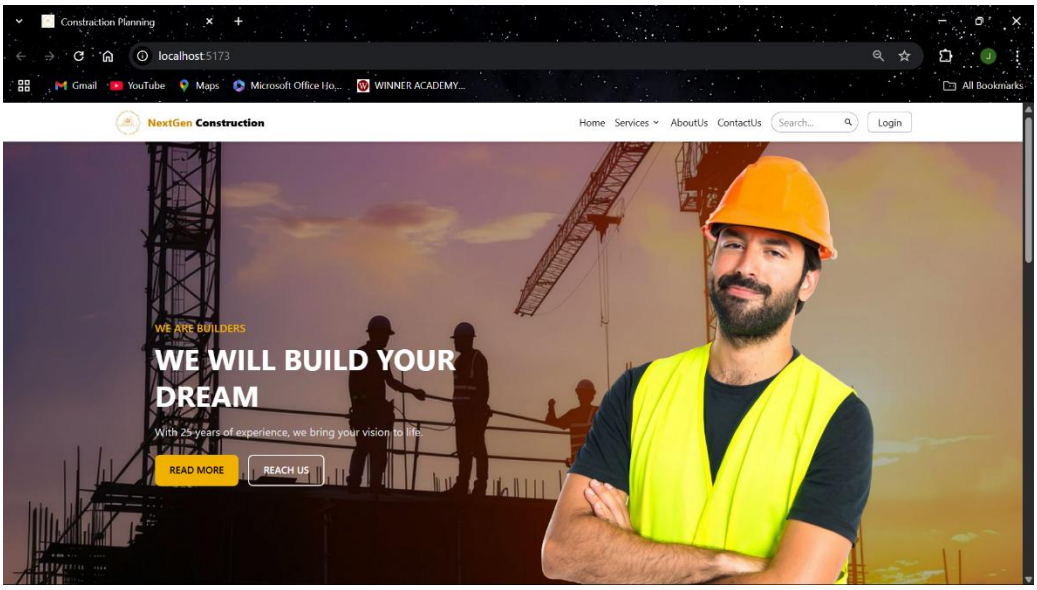
❖ Completed Tasks and Conversation Highlights

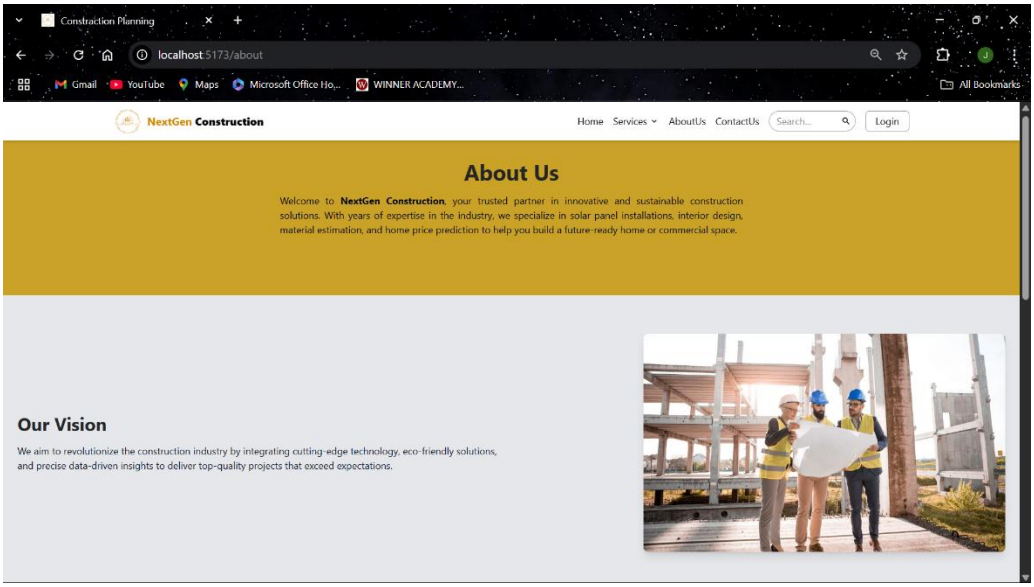
- Complete Individual Thesis Reports.
- Creation Group Thesis Reports.

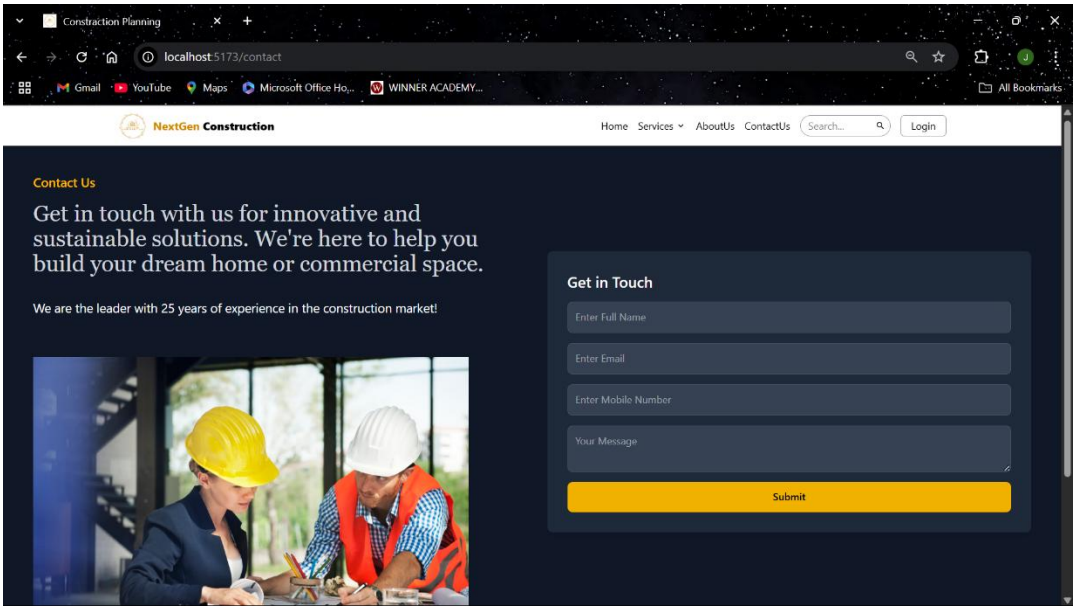


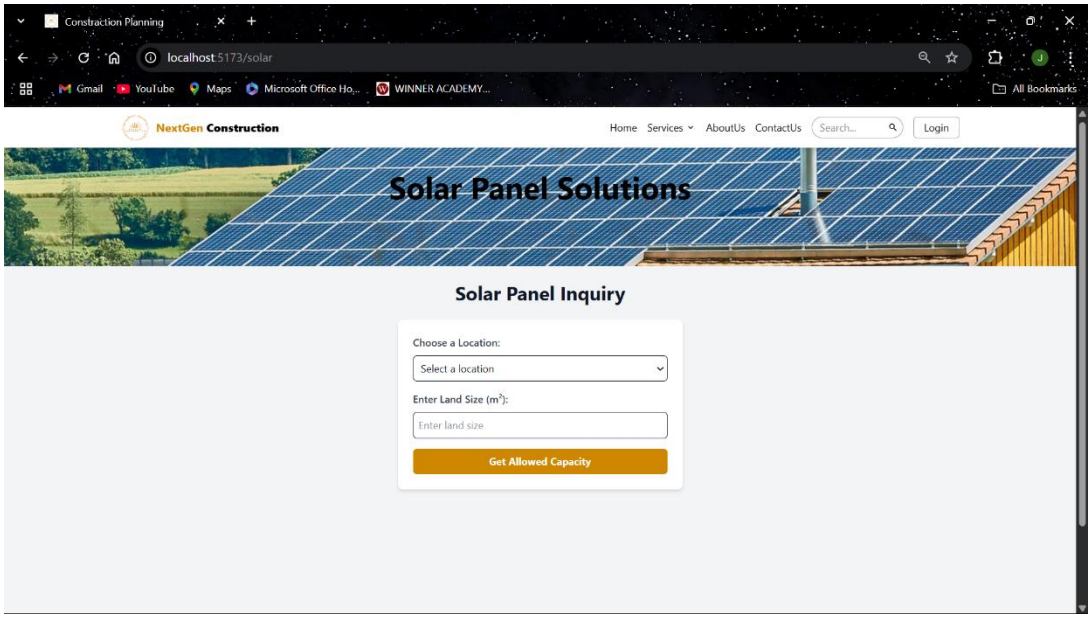
❖ Completed Tasks and Conversation Highlights

- Create a website for the solution.



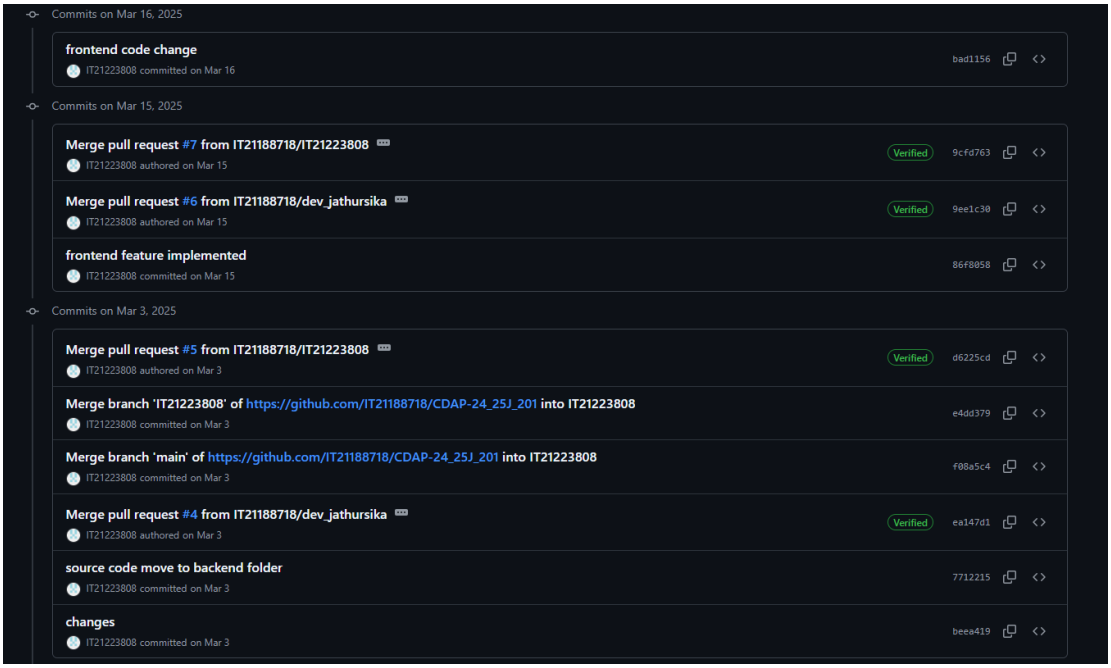


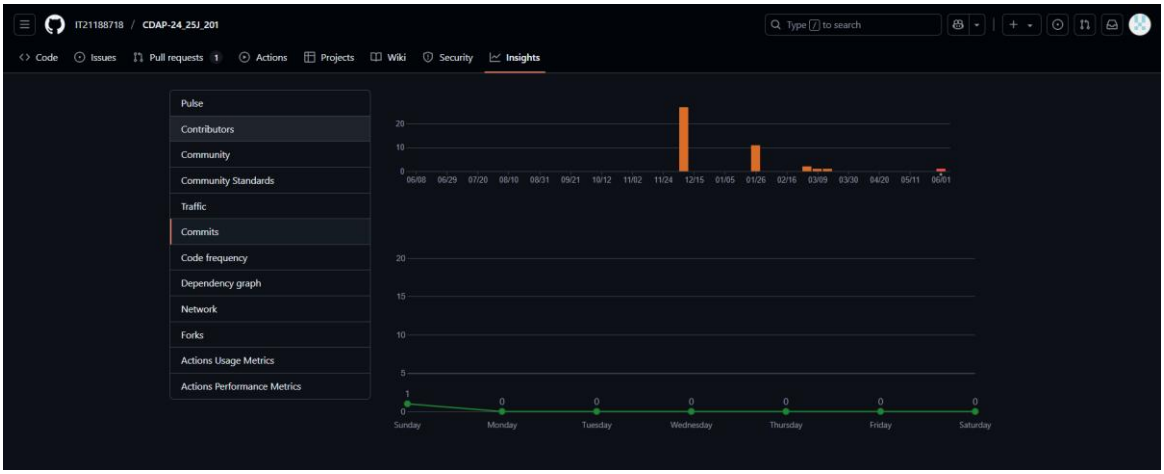

Construction Planning
localhost:5173/contact
Gmail
YouTube
Maps
Microsoft Office Ho...
WINNER ACADEMY...
All Bookmarks
NextGen Construction
Home
Services
AboutUs
ContactUs
Search...
Login
Contact Us
Get in touch with us for innovative and sustainable solutions. We're here to help you build your dream home or commercial space.
We are the leader with 25 years of experience in the construction market!
Get in Touch
Enter Full Name
Enter Email
Enter Mobile Number
Your Message
Submit

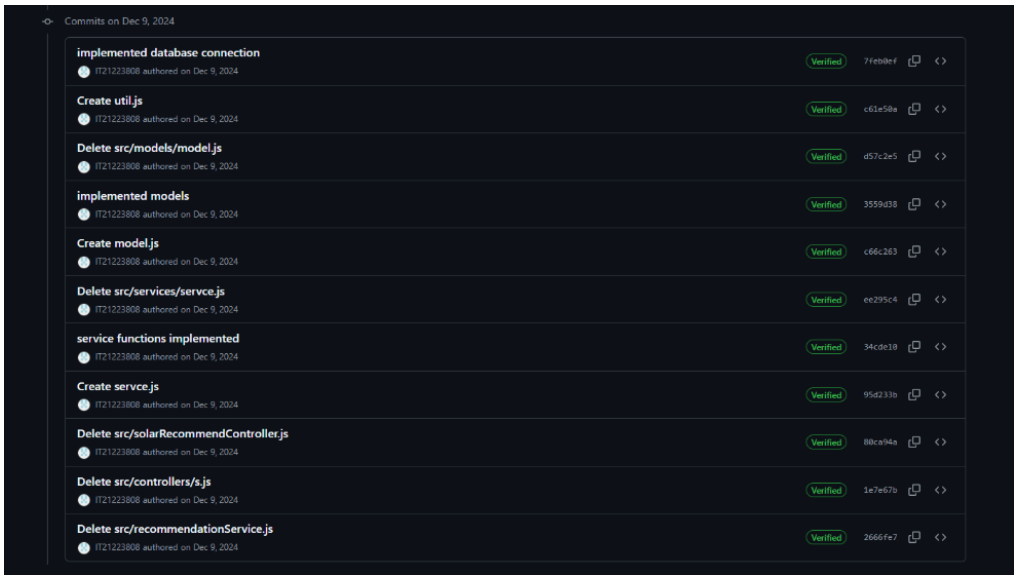

Construction Planning
localhost:5173/solar
Gmail
YouTube
Maps
Microsoft Office Ho...
WINNER ACADEMY...
All Bookmarks
NextGen Construction
Home
Services
AboutUs
ContactUs
Search...
Login
Solar Panel Solutions
Solar Panel Inquiry
Choose a Location:
Select a location
Enter Land Size (m²):
Enter land size
Get Allowed Capacity

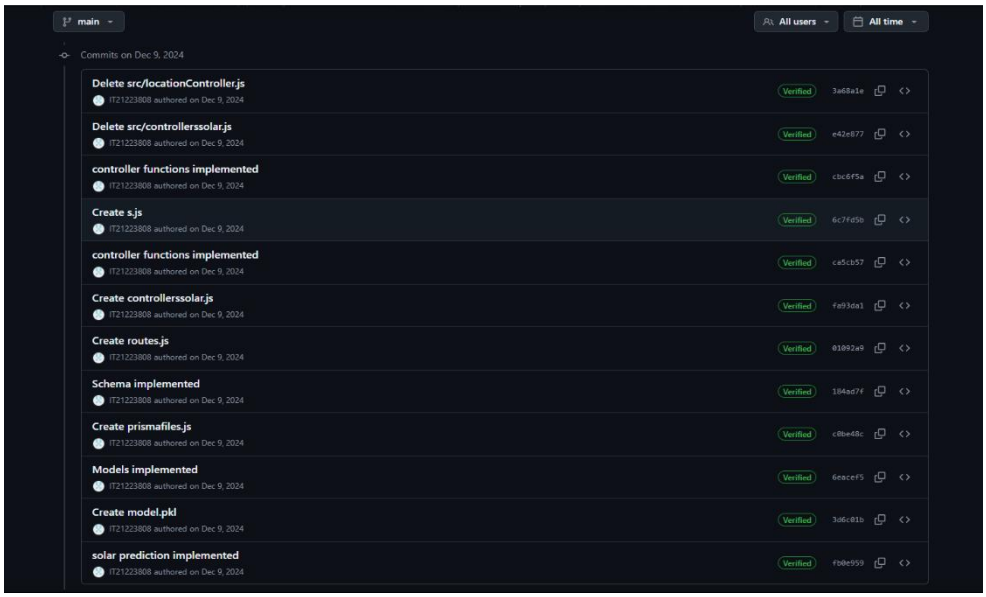
❖ Completed Tasks and Conversation Highlights

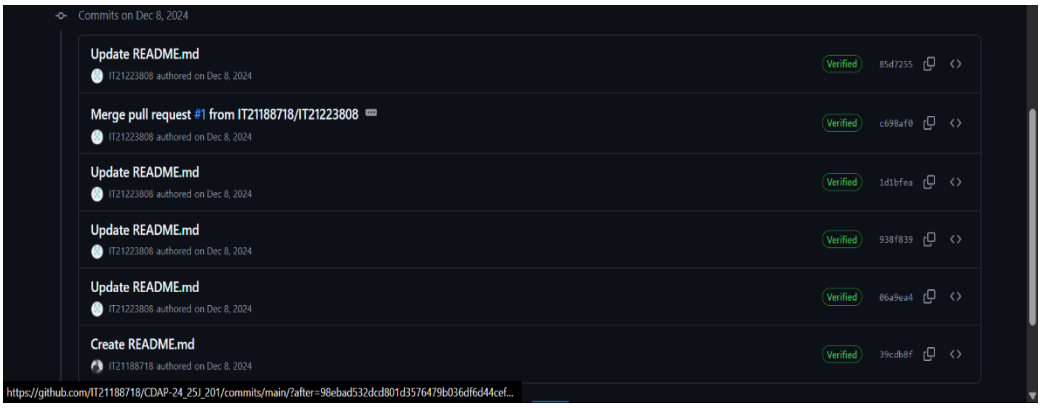
- Creation Branches for Each Commitments.
- Merge Request to Main Branch






Commits on Dec 9, 2024
implemented database connection
IT21223808 authored on Dec 9, 2024
Verified
7feb0ef
Create util.js
IT21223808 authored on Dec 9, 2024
Verified
c61e58a
Delete src/models/model.js
IT21223808 authored on Dec 9, 2024
Verified
d57c2e5
implemented models
IT21223808 authored on Dec 9, 2024
Verified
3559d38
Create model.js
IT21223808 authored on Dec 9, 2024
Verified
c66c263
Delete src/services/servce.js
IT21223808 authored on Dec 9, 2024
Verified
ee295c4
service functions implemented
IT21223808 authored on Dec 9, 2024
Verified
34cde10
Create servce.js
IT21223808 authored on Dec 9, 2024
Verified
95d233b
Delete src/solarRecommendController.js
IT21223808 authored on Dec 9, 2024
Verified
80ca94a
Delete src/controllers/s.js
IT21223808 authored on Dec 9, 2024
Verified
1e7e67b
Delete src/recommendationService.js
IT21223808 authored on Dec 9, 2024
Verified
2666fe7


main
All users
All time
Commits on Dec 9, 2024
Delete src/locationController.js
IT21223808 authored on Dec 9, 2024
Verified
3a68a1e
Delete src/controllerssolar.js
IT21223808 authored on Dec 9, 2024
Verified
e42e877
controller functions implemented
IT21223808 authored on Dec 9, 2024
Verified
cbc6f5a
Create s.js
IT21223808 authored on Dec 9, 2024
Verified
6c7fd5b
controller functions implemented
IT21223808 authored on Dec 9, 2024
Verified
ca5cb57
Create controllerssolar.js
IT21223808 authored on Dec 9, 2024
Verified
fa93da1
Create routes.js
IT21223808 authored on Dec 9, 2024
Verified
01092a9
Schema implemented
IT21223808 authored on Dec 9, 2024
Verified
184ad7f
Create prismafiles.js
IT21223808 authored on Dec 9, 2024
Verified
c8be48c
Models implemented
IT21223808 authored on Dec 9, 2024
Verified
6eacef5
Create model.pkl
IT21223808 authored on Dec 9, 2024
Verified
3d6c01b
solar prediction implemented
IT21223808 authored on Dec 9, 2024
Verified
fb0e959


Commits on Dec 8, 2024
Update README.md
IT21223808 authored on Dec 8, 2024
Verified
85d7255
Merge pull request #1 from IT21188718/IT21223808
IT21223808 authored on Dec 8, 2024
Verified
c698af0
Update README.md
IT21223808 authored on Dec 8, 2024
Verified
1d1bfea
Update README.md
IT21223808 authored on Dec 8, 2024
Verified
938f839
Update README.md
IT21223808 authored on Dec 8, 2024
Verified
06a9ea4
Create README.md
IT21188718 authored on Dec 8, 2024
Verified
39cdb8f
https://github.com/IT21188718/CDAP-24_25J_201/commits/main/?after=98ebad532dcd801d3576479b036df6d44cef...