

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS, UNIVERSITI TEKNOLOGI MARA, MERBOK, KEDAH

DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

PROGRAMMING FOR LIBRARIES (IML207)

"COURIER SYSTEM: PARCEL BILL"

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SUBMISSION DATE:

WEEK 12

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TABLE OF CONTENT

1.0 INTRODUCTION·····	1
1.1 PROBLEM STATEMENT ······	1
1.2 OBJECTIVE ·····	1
2.0 FLOW CHART······	2
3.0 SNAPSHOT OF CODE 3-	-4
4.0 SNAPSHOT OF GUI ······	5
5.0 SNAPSHOT OF DATABASE ······	6
CONCLUSON	7



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For that matter, I am able to try to put my best effort throughout the completion of this assignment. Once again, I would like to thank everyone for the time, energy and commitment.

1.0 INTRODUCTION OF COURIER PARCEL BILL SYSTEM

This project called "Courier Parcel Bill System" was created to automate and simplify the process of figuring out how much a courier service will cost.

1.1 PROBLEM STATEMENT

Manual and error-prone parcel bill calculation methods are a major cause of operational inefficiencies, billing errors, and dissatisfied consumers. When a courier parcel bill calculation system isn't automated, the following happens:

- Inaccuracies and Disputes: Determining shipping costs by hand raises the
 possibility of errors, which in turn causes billing disputes and erodes customer
 confidence and satisfaction.
- Lack of Adaptability: Without a centralized system, courier companies struggle
 to adapt to dynamic market conditions, and evolving customer demands, limiting
 their ability to stay competitive in the industry.

1.2 OBJECTIVE

The objectives of this project are achieved through a user-friendly interface developed using the Tkinter library. The system allows users to input customer details, parcel type, weight, service type, and distance. It then calculates the total bill using predefined cost parameters, ensuring accuracy and efficiency in the billing process.

2.0 FLOW CHART

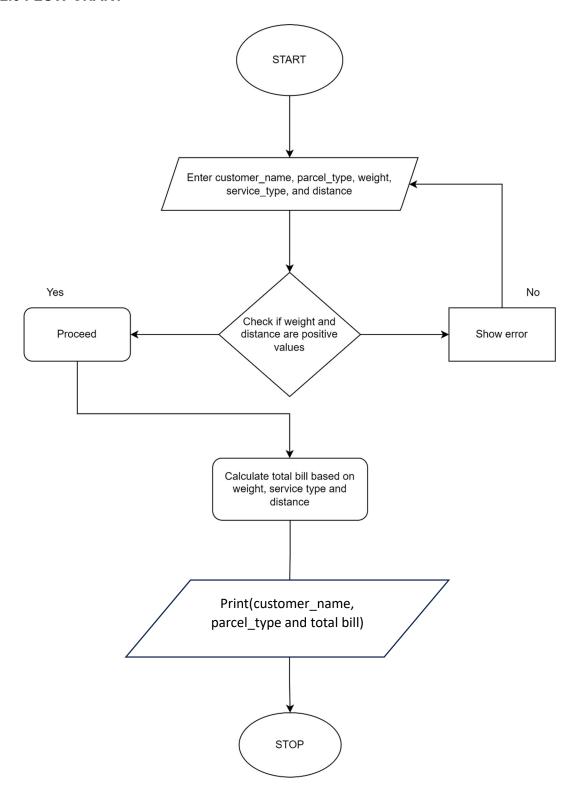


Figure 1 Parcel bill Flowchart

3.0 SNAPSHOT OF CODE

```
def parcel_bill():
    customer_name _var_get()
    parcel_type = parcel_type_var_get()
    weight = float(weight_entry.get())
    service_type = service_type_var_get()
    distance = float(distance_entry.get())
           weight_cost = price_per_kg[parcel_type] * weight
service_cost = service_cost[service_type]
distance_cost = distance * weight_per_kg[parcel_type]
total_bill = weight_cost * service_cost * distance_cost
          print(f"Customer Name: {customer_name}")
print(f"Parcel Type: {parcel_type}")
          total_bill_var.set(f"Total_Bill: RM {total_bill: .2f}"
total_bill_label.config(textvariable=total_bill_var)
           # Connect to MySQL database
mydb = mysql.connector.connect(
host="localhost",
user="root",
password="",
database="parcel_bill"
          # Insert data into the MySQL table
try:

sql = "INSERT INTO `courier_info` (customer_name, parcel_type, weight, service_type, distance, total_bill) VALUES (%s, %s, %s, %s, %s, %s)"
val = (customer_name, parcel_type, weight, service_type, distance, total_bill)
cursor.execute(sql, val)
mydb.commit()
print("Data inserted successfully")
          except mysql.connector.Error as err:
   print(f"Error: {err}")
   mydb.rollback()
           cursor.close()
mydb.close()
      if weight <= 0 or distance <= 0:
messagebox.showerror("Error", "Please enter positive values for weight and distance.")
# Create the main Tkinter
root = tkinter.Tk()
root.title("Parcel Bill")
root.geometry("300x400")
root.config(bg="#b9d8e4")
style = ttk.Style()
style.theme_use("default")
style.configure("Pink.Tlabelframe", bg="#f6cab7")
style.configure("Pink.Tlabel", bg="#f6cab7")
parcel_bill_frame = tix.labelFrame(root, text="Parcel Bill", style="Pink.TLabelFrame")
title_label = tix.label(aprcel_bill_frame, text="Parcel Bill")
parcel_bill_frame.prid(row=0, column=0, padx=20, pady=10, sticky="nsew") #use nsew to expand to fill its entire grid cell.
title_label.prid(row=0, column=0, sticky="nsew")
# Spacing and centering elements within the frame
for widget in parcel_bill_frame.winfo_children():
    if sinstance(widget, (tk.label, tk.Entry)):
        widget.grid_configure(padx=20, pady=5, sticky="nsew")
customer_name_label = ttk.label(parcel_bill_frame, text="Customer Name:", style="Pink.Tlabel")
customer_name_label.grid(row=0, column=0, padx=5, pady=5)
customer_name_var = tkinter.StringWar()
customer_name_entry = ttk.Entry(parcel_bill_frame)
customer_name_entry.grid(row=0, column=1, padx=5, pady=5)
parcel_type label = ttk.label(parcel_bill_frame, text="Parcel Type:", style="Pink.TLabel")
parcel_type.label.grid(row=1, column=0, pax<5, payv=5)
parcel_type.va = tkinter.StringMar(value=0.thoose your parcel type")
parcel_types = ["emwelope", "small boot", "laedium boot", "lange boot"]
parcel_type_combobox = ttk.Combobox(parcel_bill_frame, textvariable=parcel_type_var, values=parcel_types)
parcel_type_combobox.grid(row=1, column=1, paxv<5, paxyv=5)</pre>
```

```
| 101
| 102 | | 103 | | 103 | | 104 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 | | 105 |
```

Figure 2 snapshot of code

4.0 SNAPSHOT OF GUI

0	Parcel Bill		×		
	Parcel Bill				
	Customer Name:	SITI AISYAH NATAS	HA		
	Parcel Type:	small box	T.		
	Weight (kg):	2			
	Service Type:	standard	_		
	Distance (km):	56			
	Total Bill: RM 48.50				
Update					

Figure 3 snapshot of GUI

5.0 SNAPSHOT OF DATABASE

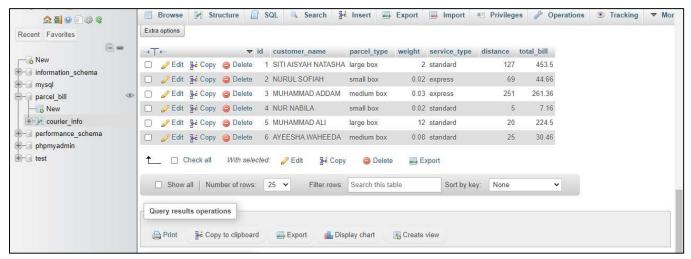


Figure 4.0 snapshot of database

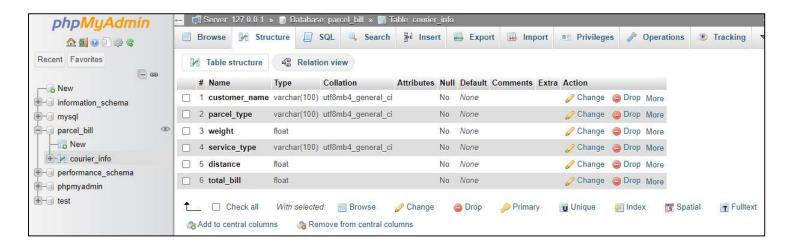


Figure 4.1 snapshot of database

CONCLUSION

The "Courier Parcel Bill System" project was created for the courier services and provides an answer to the problems associated with manual and prone to error methods of figuring out how much a courier service will cost. The system seeks to improve customer satisfaction and confidence by eliminating billing disputes and inaccuracies through automation.

In conclusion, this project system helps the courier industry's overall customer satisfaction, operational efficiency, and flexibility in response to market fluctuations, in addition to streamlining the difficult task of calculating courier parcel bills. This system's automation, adaptability, and database integration make it a useful tool for courier businesses looking to optimize their workflow and offer dependable and effective customer service.