

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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ACKNOWLEDGEMENTS

First and foremost, I would like to express my greatest gratitude to Mr Airul Shazwan for his guidance throughout this journey. I was given guidelines on how to do this individual assignment in subject Programming for Libraries for my third semester of Diploma in Information Management. A special gratitude to my respected lecturer for giving me a very clear and concise instructions to make it easier for me to proceed this report smoothly, also assisted on encouragement and guidance to finally make this assignment succeed without exceeding its due date.

A very huge thank you to my beloved classmates in KCDIM1443F class for giving each other cooperation and support while I was working on this assignment for this subject.

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

- Automation: Streamline and automate the complex process of calculating courier parcel bills to reduce manual errors and enhance operational efficiency.
- Adaptability: Provide a flexible and customizable system that adapts to various pricing structures, and shipping options, meeting the diverse needs of courier companies.

2.0 FLOW CHART

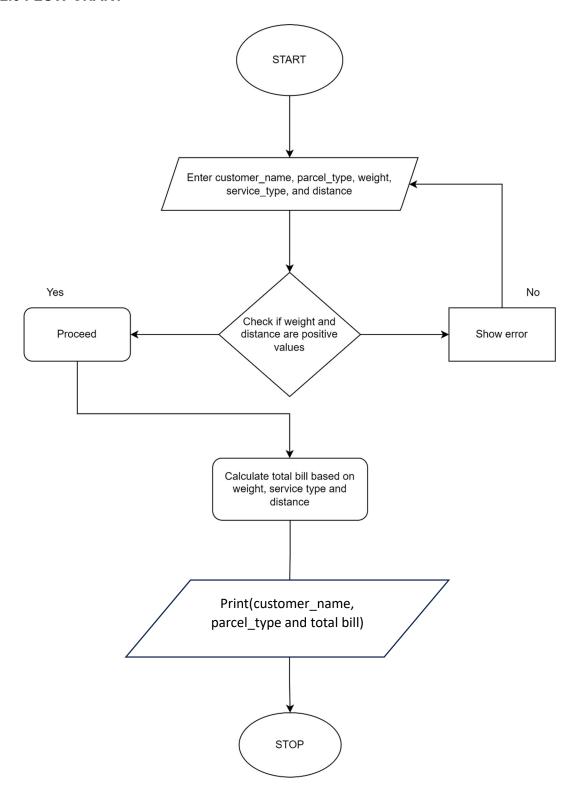


Figure 1 Parcel bill Flowchart

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

∅ Parcel Bill	_	□ ×	
Parcel Bill Customer Name:	SITI AISYAH N	IATASHA	
Parcel Type:	small box	.	
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

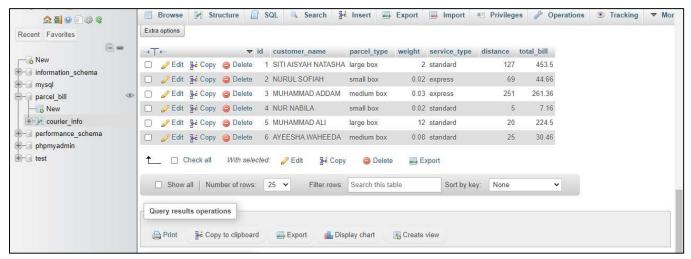


Figure 4.0 snapshot of database

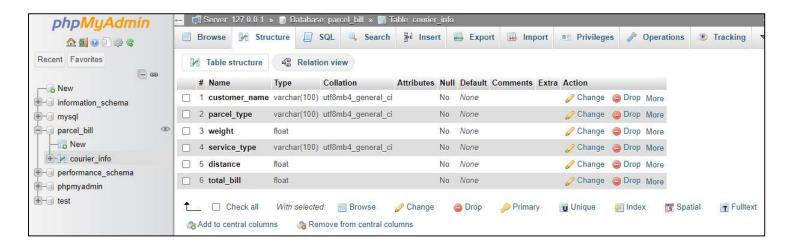


Figure 4.1 snapshot of database