

# COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS UNIVERSITI TEKNOLOGI MARA (UITM) CAWANGAN KEDAH, KAMPUS SUNGAI PETANI

PROGRAMMING FOR LIBRARIES (IML208)

INDIVIDUAL PROJECT: CATERING PACKAGE CALCULATION

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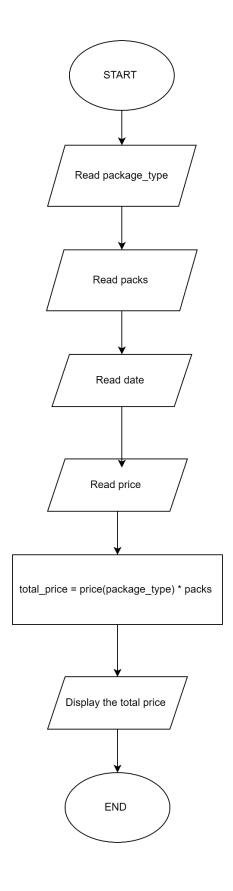
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## 1.0 INTRODUCTION

The catering package calculation module is a Python GUI application designed to assist users in calculating the total cost of catering packages based on user inputs. The program offers a user-friendly interface where individuals can select a catering package from a dropdown menu, input the number of packs they require, and choose a date for the event using a date picker. The application provides a detailed description of available packages along with their respective prices. Three different types of packages with various types of food are offered for selection: Package A, Package B, and Package C. Customers has the option to select their preferred packages based on food and price.

When the "Calculate" button is clicked, the application dynamically calculates and displays the total price of the chosen catering package while accounting for the quantity of packs selected. Additionally, the program incorporates a disabled text box that presents a comprehensive list of available packages along with corresponding details and price.

The primary features of the catering program include a visually appealing GUI, package selection, user input validation, a date picker for event scheduling, and real-time calculation and display of the total price. The program serves as a practical tool for users involved in event planning, allowing them to quickly and efficiently determine the cost of catering services based on their specific requirements.



## 3.0 SNAPSHOT OF PYTHON CODE

```
Catering_package.py > ...

import tkinter as tk

from tkinter import messagebox

from datetime import datetime

import mysql.connector

# To connect the database Mysql with the code

mydb = mysql.connector.connect(

host="localhost",

user="root",

password="",

database="catering_package"

database="catering_package"

# Create a cursor object to execute SQL queries

mycursor = mydb.cursor()
```

```
# Function to handle database and calculation of the data

def customer_data ():

package_type = package_var.get()

date_str = date_entry.get()

try:

# Convert the date string to a datetime object

date_obj = datetime.strptime(date_str, "%Y/%m/%d")

formatted_date = date_obj.strftime("%d %b %Y") # Format as per your requirement

except ValueError:

messagebox.showerror("Error", "Invalid date format. Please enter date in the format yyyy/mm/dd")

return

packs = int(packs_entry.get())
```

```
### List of the price of all package price = {
    "Package A": 18,
    "Package A": 18,
    "Package B": 20,
    "Package C": 38,
    "Package C": 38,
    "Backage B": 20,
    "Package C": 38,
    "Package C": 38,
    "Backage C": 38,
```

```
# Title of the page in the main window

| abel = tk.label(root, text='Calculate your Package Price', font=("Arial", 15, "bold"), bg='#887355') #Brown colour for the backhround

| abel.pack(padx=10, pady=10)

# List of the price by using textbox
| price_text = tk.Text(root, height=15, width=47, bg= '#FFF8DC') # Nude colour for the background
| price_text.pack(pady=20)

# The package description and price
| price_text.insert(tk.END, "Package And Prices: \n\n")
| price_text.insert(tk.END, "Package A: Set nasi tomato, buah, kuih dan air: RM10\n\n")
| price_text.insert(tk.END, "Package B: Set nasi tomato, buah, kuih dan air + cendol: RM20\n\n")
| price_text.insert(tk.END, "Package B: Set nasi beriani, buah, kuih dan air + cendol dan mi kari: RM30\n\n")
| price_text.insert(tk.END, "Package C: Set nasi beriani, buah, kuih dan air + cendol dan mi kari: RM30\n\n")
| price_text.insert(tk.END, "Package C: Set nasi beriani, buah, kuih dan air + cendol dan mi kari: RM30\n\n")
| price_text.insert(tk.END, "Package enter the date by year/month/day:\n\(2024/01/01)\n\n")
| price_text.insert(tk.END, "Package enter the date by year/month/day:\n\(2024/01/01)\n\n")
| price_text.insert(tk.END, "Package type
| packs_label= tk.label(root, text="Choose Your Package", bg='#DE8887') # Soft brown for the backgound colour
| packs_label.pack()
```

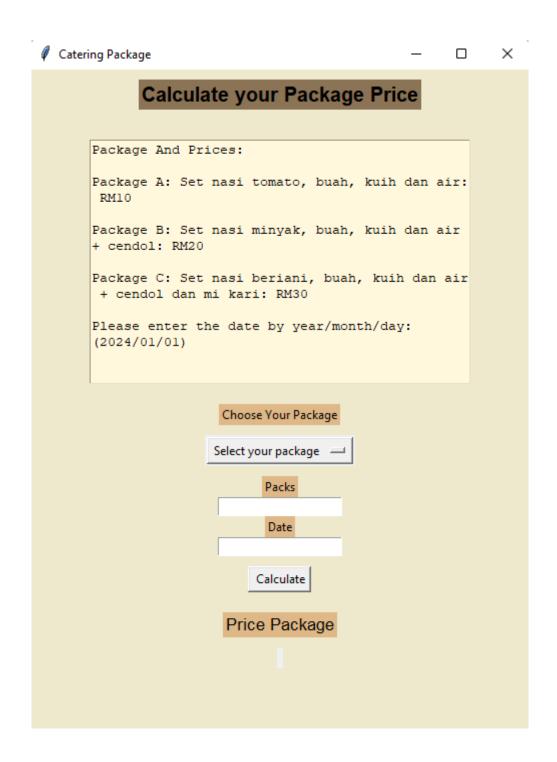
```
# For selecting the package
package_var= tk.StringVar(root)
package_var.set("Select your package")
trip_dropdown.pack(pady=10)

# Packs Entry, label and user can insert data
packs_label = tk.Label(root, text="Packs", bg='#DEB887') # Soft brown for the backgound colour
packs_label.pack()
packs_entry = tk.Entry(root)
packs_entry.pack()

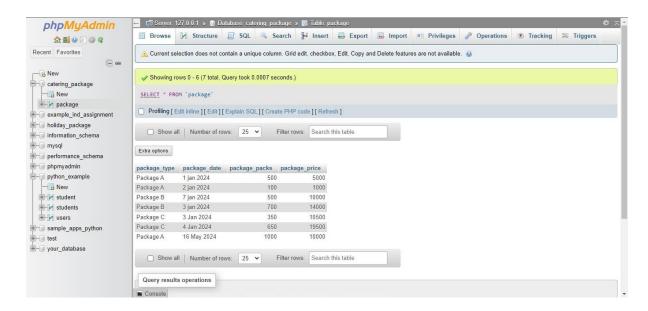
# Date confirmation from the customer
date_label.pack()
date_label.pack()
date_label.pack()

# The save button to save to data
save_button.pack(pady=10)
```

# 4.0 SNAPSHOT OF GUI INTERFACE



# 5.0 SNAPSHOT OF DATABASE



package_type	package_date	package_packs	package_price
Package A	1 jan 2024	500	5000
Package A	2 jan 2024	100	1000
Package B	7 jan 2024	500	10000
Package B	3 jan 2024	700	14000
Package C	3 Jan 2024	350	10500
Package C	4 Jan 2024	650	19500
Package A	16 May 2024	1000	10000