



**SCHOOL OF INFORMATION SCIENCE,  
COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS,  
UNIVERSITI TEKNOLOGI MARA**

**PROGRAMMING FOR LIBRARIES  
(IML208)**

**INDIVIDUAL ASSIGNMENT:  
PROGRAMMING ON PYTHON FOR CAT TREATMENT**

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4 JANUARY 2024**

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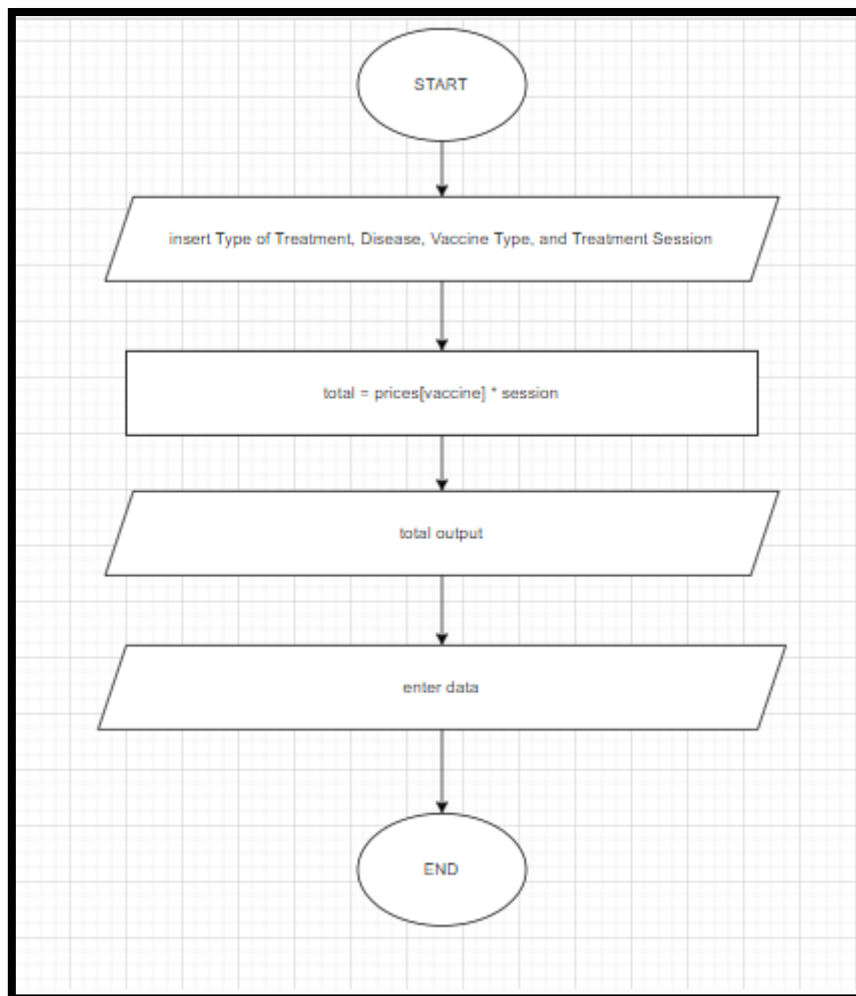
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## **1.0 INTRODUCTION**

I choose cat treatment to do my programming is to make thing easy and organize that can help the cat hotel staff and the cat owner. There were many problems that occurred in the past with an unorganized data and missing data until there a mistake that happen to the cat. For example, the treatment should be done to the other cat but it be done on different cat. This will occur a problem to the staff or maybe the cat owner will sue the cat hotel towards the problem that occur. With this programming, it can help the data be more organized and the treatment will be done smoothly with no mistakes and problem occur.

## 2.0 FLOWCHART



### 3.0 SNAPSHOT OF CODE

```
File Edit Selection View Go Run ... IML209 IND ASSG
cat_treatment.py
cat_treatment.py > ...
1 import tkinter as tk
2 from tkinter import ttk
3 import mysql.connector
4
5 # Link with MySQL database
6 mydb = mysql.connector.connect(
7     host="localhost",
8     user="root",
9     database="cat_treatment"
10 )
11
12 # Create cursor to execute SQL
13 mycursor = mydb.cursor()
14
15 # Calculation and database saving
16 def collect_data():
17     treatment = type_of_treatment_combobox.get()
18     disease = disease_entry.get()
19     vaccine = vaccine_type_combobox.get()
20     session = int(treatment_session_combobox.get())
21
22     prices = {
23         "Rabies FVRCP" : 90,
24         "FeLV VACCINE" : 85,
25         "FHV-1" : 90,
26         "ITRACONAZOLE" : 55,
27         "TERBINAFINE" : 61,
28         "FLUCONAZOLE" : 58,
29     }
30
31     total = (prices[vaccine] * session)
32
```

```
File Edit Selection View Go Run ... IML209 IND ASSG
cat_treatment.py
cat_treatment.py > ...
33
34 output_label = tk.Label(root, text="")
35 output_label.pack()
36 output_label.config(text=f"Total treatment price: RM{total}")
37
38 # To insert data in database
39 sql = "INSERT INTO treatment_form(Type_of_Treatment, Disease, Vaccine_Type, Treatment_Session) VALUES(%s, %s, %s, %s)"
40 val = (treatment, disease, vaccine, session)
41 mycursor.execute(sql, val)
42 mydb.commit()
43
44
45
46
47 root = tk.Tk()
48 root.title("Cat Treatment Form")
49 root.geometry("600x600")
50
51 frame = tk.Frame(root)
52 frame.pack()
53
54 #saving treatment information
55
56 treatment_information_frame = tk.LabelFrame(frame, text="Treatment Information")
57 treatment_information_frame.grid(row=0, padx=20, pady=10)
58
59 type_of_treatment_label = tk.Label(treatment_information_frame, text="Type of Treatment")
60 type_of_treatment_combobox = ttk.Combobox(treatment_information_frame, values=["Vaccine", "Fungus"])
61 type_of_treatment_label.grid(row=0, column=0)
62 type_of_treatment_combobox.grid(row=1, column=0)
63 type_of_treatment_combobox.set("Choose")
64 type_of_treatment_combobox["state"] = "readonly"
```

```
File Edit Selection View Go Run ... IML209 IND ASSG
cat_treatment.py
cat_treatment.py > ...
67 disease_label.grid(row=0, column=1)
68 disease_entry = tk.Entry(treatment_information_frame)
69 disease_entry.grid(row=1, column=1)
70
71
72 vaccine_type_label = tk.Label(treatment_information_frame, text="Vaccine Type")
73 vaccine_type_combobox = ttk.Combobox(treatment_information_frame, values=["Rabies FVRCP", "FeLV VACCINE", "FHV-1", "ITRACONAZOLE",
74 "TERBINAFINE", "FLUCONAZOLE"])
75 vaccine_type_label.grid(row=2, column=0)
76 vaccine_type_combobox.grid(row=2, column=1)
77 vaccine_type_combobox.set("Choose")
78 vaccine_type_combobox["state"] = 'readonly'
79
80 treatment_session = tk.Label(treatment_information_frame, text="Treatment Session")
81 treatment_session_combobox = ttk.Combobox(treatment_information_frame, values=["1", "2", "3"])
82 treatment_session_combobox.grid(row=3, column=1)
83 treatment_session_combobox.grid(row=3, column=1)
84 treatment_session_combobox.set("Choose")
85 treatment_session_combobox["state"] = 'readonly'
86
87 for widget in treatment_information_frame.winfo_children():
88     widget.grid(padx=10, pady=5)
89
90
91 # vaccine price
92 vaccine_price_text = tk.Text(root, height=20, width=38)
93 vaccine_price_text.pack(padx=40, pady=20)
94
95 # listing vaccine price list
96 vaccine_price_text.insert(tk.END, "Vaccine & Prices :\n\n")
97 vaccine_price_text.insert(tk.END, "Rabies FVRCP : RM90.00\n\n")
98 vaccine_price_text.insert(tk.END, "FeLV VACCINE : RM85.00\n\n")
```

```
File Edit Selection View Go Run ... IML209 IND ASSG
cat_treatment.py
cat_treatment.py > ...
93 vaccine_price_text.pack(padx=40, pady=20)
94
95 # listing vaccine price list
96 vaccine_price_text.insert(tk.END, "Vaccine & Prices :\n\n")
97 vaccine_price_text.insert(tk.END, "Rabies FVRCP : RM90.00\n\n")
98 vaccine_price_text.insert(tk.END, "FeLV VACCINE : RM85.00\n\n")
99 vaccine_price_text.insert(tk.END, "FHV-1 : RM96.00\n\n")
100 vaccine_price_text.insert(tk.END, "ITRACONAZOLE : RM55.00\n\n")
101 vaccine_price_text.insert(tk.END, "TERBINAFINE : RM61.00\n\n")
102 vaccine_price_text.insert(tk.END, "FLUCONAZOLE : RM58.00\n\n")
103 vaccine_price_text.configure(state="disabled")
104
105 save_button = tk.Button(root, text="Calculate", command=collect_data)
106 save_button.pack(pady=10)
107
108
109
110
111
112
113 root.mainloop()
114
```

#### 4.0 SNAPSHOT OF GUI

The screenshot displays a software window titled "Cat Treatment Form". Inside, there is a "Treatment Information" section with four dropdown menus: "Type of Treatment" (set to "Fungus"), "Disease" (set to "FUNGI"), "Vaccine Type" (set to "FLUCONAZOLE"), and "Treatment Session" (set to "2"). Below this is a list titled "Vaaccine & Prices :" containing six items with their respective prices. At the bottom, there is a "Calculate" button and a text label showing the "Total teratment price: RM116".

Treatment Information	
Type of Treatment	Disease
Fungus	FUNGI
Vaccine Type	Treatment Session
FLUCONAZOLE	2

Vaaccine & Prices :	
Rabies FVRCP	: RM90.00
FelV VACCINE	: RM85.00
FHV-1	: RM96.00
ITRACONAZOLE	: RM55.00
TERBINAFINE	: RM61.00
FLUCONAZOLE	: RM58.00

Calculate

Total teratment price: RM116



## 5.0 SNAPSHOT OF DATABASE

The screenshot shows the phpMyAdmin interface for the 'cat\_treatment' database. The left sidebar displays a tree view of the database structure, including 'cat\_treatment', 'holiday\_package', 'information\_schema', 'mysql', 'performance\_schema', 'phpmyadmin', 'python\_example', and 'test'. The main panel shows the 'Structure' tab for the 'cat\_treatment' database. A table named 'treatment\_form' is listed with 5 rows and 4 columns. The table's structure is detailed in the table below:

Table	Action	Rows	Type	Collation	Size	Overhead
treatment_form	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 K18	-
1 table	Sum	5	InnoDB	utf8mb4_general_ci	16.0 K18	0 B

Below the table structure, there is a 'Create new table' section with input fields for 'Table name' and 'Number of columns' (set to 4), and a 'Create' button.

The screenshot shows the phpMyAdmin interface for the 'treatment\_form' table. The left sidebar is the same as the previous screenshot. The main panel shows the 'Table: treatment\_form' view. A message at the top states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green bar indicates 'Showing rows 0 - 4 (5 total, Query took 0.0004 seconds)'. The SQL query shown is 'SELECT \* FROM `treatment\_form`'. Below the query, there are options for 'Show all', 'Number of rows' (set to 25), and 'Filter rows'. The table data is displayed as follows:

Type_of_Treatment	Disease	Vaccine_Type	Treatment_Session
Fungus	healthy	FelV VACCINE	2
Vaccine	Rabies suspect	Rabies FVRCP	3
Vaccine	flu	TERBINAFINE	1
Vaccine	fever	TERBINAFINE	3
Fungus	FUNGI	FLUCONAZOLE	2

At the bottom, there is a 'Query results operations' section with buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.