



**School of Information Science,
College of Computing, Informatics, and Mathematics,
Universiti Teknologi Mara,
Merbok, Kedah.**

Diploma in Library Informatics (CDIM144)

Programming for Library (IML208)

“Report in Python Program: Cat Owner Registration”

Prepared by:

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Class: KCDIM144 3E

Prepared for:

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Submission date:

04 January 2024

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Acknowledgment

First of all, I would like to praise and thank the Almighty God for providing me with the strength, as a result of His Blessing, I was able to complete this assignment. Without His Blessing, I could not have completed this assignment plus also with my hard work.

Besides that, I would like to express my gratitude to the lecturer, Sir Airul Syazwan Bin Norshahimi, for helping me with his guidance. He is always there for support and always asks about the assignment's progress that is given. Alhamdulillah, I successfully completed this assignment on time without any hesitation. I would also like to thank him for teaching me in this course until I understood all the learning materials clearly and nicely, although it was also hard enough to understand and practice it.

Last but not least, thank my loving family for their always encouragement and prayers that have kept me going up till now. I hope my effort was worth it and will help me to get good grades for my final results. To sum up, I have learned new things that I never thought that I had a chance to learn before, and I hope my work will get better in the future.

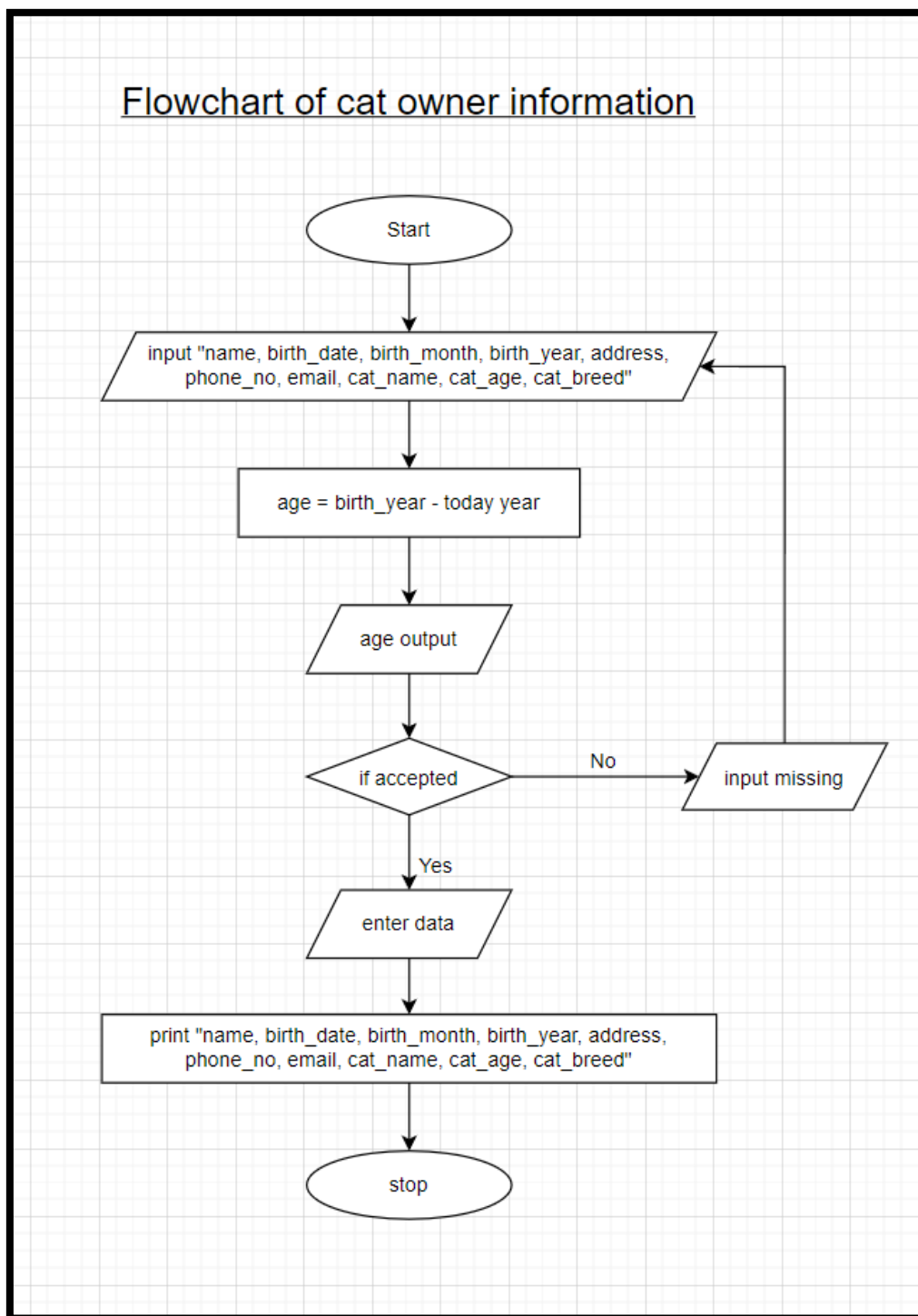
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1.0 Introduction

Many types of hotels that we have nowadays, are not just for us but also have hotels for our pets. In Malaysia, the majority of society chooses a cat as their pet as they have a unique personality and care with their owner. I decided to create a customer registration for a cat owner to board their cat at the cat hotel as my project. The registration needs the owner to fill in their name, birth date, birth month, birth year, address, phone number, email, and also their cat's name, age, and breed. Owner age will be automatically calculated in the registration form, and the owner also needs to accept the terms and conditions before the data can be collected into the database.

2.0 Flowchart.



3.0 Snapshot of Code.

```
ind_pjc_owner_info.py > collect_data
1 import tkinter as tk
2 from tkinter import ttk
3 from tkinter import messagebox
4 from datetime import date
5 import mysql.connector
6
7 mydb = mysql.connector.connect(
8     host = "localhost",
9     user = "root",
10    password = "",
11    database = "ind_pjc_owner_info"
12 )
13
14 mycursor = mydb.cursor()
15
16 def collect_data():
17     accepted = accept_var.get()
18     dt = d_b_entry.get()
19     mt = m_b_entry.get()
20     yr = y_b_entry.get()
21     today = date.today()
22     birthdate = date(int(yr), int(mt), int(dt))
23     age = today.year - birthdate.year #((today.month, today.day) < (birthdate.month, birthdate.day))
24
25     output_age = tk.Label(cat_owner_frame, text=f"[age] Year", fg="white", bg="#836953")
26     output_age.grid(row=4, column=1)
27
28     if accepted == "Accepted":
29         name = owner_name_entry.get()
30         dbirth = d_b_entry.get()
31         mbirth = m_b_entry.get()
32         ybirth = y_b_entry.get()
33         address = owner_address_entry.get()
34         phone = owner_phone_entry.get()
35         email = owner_email_address_entry.get()
36
37         if name and address and phone and email:
38             cat = cat_name_entry.get()
39             cat_age = cat_age_spinbox.get()
40             cat_breed = cat_breed_combobox.get()
41
42             print("Name: ", name)
43             print("Birth Date:", dbirth, "/", mbirth, "/", ybirth)
44             print("Age:", age, "Year")
45             print("Address:", address)
46             print("Contact No:", phone)
47             print("Email:", email)
48             print(".....")
49             print("Cat Name:", cat)
50             print("Age:", cat_age)
51             print("Breed:", cat_breed)
52             print("-----")
53         else:
54             tk.messagebox.showwarning(title= "Error", message= "There are items that require your attention!")
55         else:
56             tk.messagebox.showwarning(title= "Error", message= "You have not accepted the terms!")
57
58         sql = "INSERT INTO registration (NAME, AGE, ADDRESS, PHONE_NO, EMAIL, CAT_NAME, CAT_AGE, CAT_BREED) VALUES (%s,%s,%s,%s,%s,%s,%s,%s)"
59         val = (name,age, address, phone, email, cat, cat_age, cat_breed)
60         mycursor.execute(sql, val)
61         mydb.commit()
62
63     root = tk.Tk()
64     root.geometry("520x365")
65     root['background'] = '#836953'
66     root.title("Cat Owner Registration")
67
68     label = tk.Label(root, text = "Customer Registration", font = ('Comic Sans MS bold', 18), fg="white", bg="#836953")
69     label.pack(padx=20, pady=1)
70
71     frame = tk.Frame(root, bg="#836953")
72     frame.pack()
73
74     #owner
75     cat_owner_frame = tk.LabelFrame(frame, text = "Personal Detail", fg="white", bg="#836953")
76     cat_owner_frame.grid(row= 0, column=0, sticky="News", padx=1, pady=1)
77
78     owner_name_label = tk.Label(cat_owner_frame, text="Name :", fg="white", bg="#836953")
79     owner_name_label.grid(row=0, column=0)
80     owner_name_entry = tk.Entry(cat_owner_frame)
81     owner_name_entry.grid(row=0, column=1)
82
83     owner_birth_date = tk.Label(cat_owner_frame, text="Birth Date :", fg="white", bg="#836953")
84     owner_birth_date.grid(row=1, column=0)
85
86     d_b_entry = ttk.Combobox(cat_owner_frame, values=["1","2","3","4","5","6","7","8","9","10",
87     "11","12","13","14","15","16","17","18","19","20",
88     "21","22","23","24","25","26","27","28","29","30","31"])
89     d_b_entry.grid(row=1, column=1)
90     d_b_entry.set("Select day")
91     d_b_entry["state"] = 'readonly'
92
93     m_b_entry = ttk.Combobox(cat_owner_frame, values=["01","02","03","04","05","06",
94     "07","08","09","10","11","12"])
95     m_b_entry.grid(row=2, column=1)
96     m_b_entry.set("Select month")
97     m_b_entry["state"] = 'readonly'
98
99     y_b_entry = ttk.Combobox(cat_owner_frame, values=list(range(1960, 2200)))
100    y_b_entry.grid(row=3, column=1)
101    y_b_entry.set("select year")
102    y_b_entry["state"] = 'readonly'
103
104    owner_age_label = tk.Label(cat_owner_frame, text="Age :", fg="white", bg="#836953")
105    owner_age_label.grid(row=4, column=0)
106
```

```

107 owner_address_label = tk.Label(cat_owner_frame, text="Address :", fg="white", bg="#836953")
108 owner_address_label.grid(row=5, column=0)
109 owner_address_entry = tk.Entry(cat_owner_frame)
110 owner_address_entry.grid(row=5, column=1)
111
112 owner_phone_label = tk.Label(cat_owner_frame, text="Contact No :", fg="white", bg="#836953")
113 owner_phone_label.grid(row=6, column=0)
114 owner_phone_entry = tk.Entry(cat_owner_frame)
115 owner_phone_entry.grid(row=6, column=1)
116
117 owner_email_address_label = tk.Label(cat_owner_frame, text="Email Address :", fg="white", bg="#836953")
118 owner_email_address_label.grid(row=7, column=0)
119 owner_email_address_entry = tk.Entry(cat_owner_frame)
120 owner_email_address_entry.grid(row=7, column=1)
121
122 for widget in cat_owner_frame.winfo_children():
123     widget.grid_configure(padx=10, pady=5)
124
125 #cat
126 cat_frame = tk.LabelFrame(frame, text="Cat Details", fg="white", bg="#836953")
127 cat_frame.grid(row=0, column=1, sticky="News", padx=1, pady=1)
128
129 cat_name_label = tk.Label(cat_frame, text="Name :", fg="white", bg="#836953")
130 cat_name_label.grid(row=0, column=0)
131 cat_name_entry = tk.Entry(cat_frame)
132 cat_name_entry.grid(row=0, column=1)
133
134 cat_age_label = tk.Label(cat_frame, text="Age :", fg="white", bg="#836953")
135 cat_age_label.grid(row=1, column=0)
136 cat_age_spinbox = ttk.Combobox(cat_frame, values=["Kitten(0-1)", "Young Adult(1-6)", "Mature Adult(7-10)", "Senior(>10)"])
137 cat_age_spinbox.grid(row=1, column=1)
138 cat_age_spinbox.set("Choose age")
139 cat_age_spinbox["state"] = 'readonly'
140
141 cat_breed_label = tk.Label(cat_frame, text="Breed :", fg="white", bg="#836953")
142 cat_breed_label.grid(row=2, column=0)
143 cat_breed_combobox = ttk.Combobox(cat_frame, values=["Domestic", "American", "Siamese", "Maine Coon", "Ragdoll",
144     "Russian Blue", "Bengal", "Bombay", "Persian"])
145 cat_breed_combobox.grid(row=2, column=1)
146 cat_breed_combobox.set("Choose breed")
147 cat_breed_combobox["state"] = 'readonly'
148
149 for widget in cat_frame.winfo_children():
150     widget.grid_configure(padx=10, pady=5)
151
152 #terms
153 terms_frame = tk.LabelFrame(frame, text="Terms & Condition", fg="white", bg="#836953")
154 terms_frame.grid(row=2, column=0, sticky="News", padx=1, pady=1)
155
156 accept_var = tk.StringVar(value="Not Accepted")
157 terms_check = tk.Checkbutton(terms_frame, text="I accept the terms and condition.", fg="#3d251e",
158     variable=accept_var, onvalue="Accepted", offvalue="Not Accepted", bg="#836953")
159 terms_check.grid(row=0, column=0)
160
161 #enter button
162 enter_button = tk.Button(frame, text="Enter", bg="white", command= collect_data)
163 enter_button.place(x=325, y=283, width=90, height=30)
164
165 close_button = tk.Button(frame, text="Close", bg="white", command=root.destroy)
166 close_button.place(x=416, y=283, width=90, height=30)
167
168 root.mainloop()

```


4.0 Snapshot of GUI.

Customer Registration

Personal Detail

Name :

Birth Date :

Age :

Address :

Contact No :

Email Address :

Cat Details

Name :

Age :

Breed :

Terms & Condition

☐ I accept the terms and condition.

5.0 Snapshot of Database.

phpMyAdmin

Recent Favourites

New

holiday_package

ind_pjc_owner_info

New

registration

information_schema

mysql

performance_schema

phpmyadmin

python_example

test

Server: 127.0.0.1 Database: ind_pjc_owner_info

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking Designer More

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
registration	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	32.0 KiB	-
1 table	Sum	5	InnoDB	utf8mb4_general_ci	32.0 KiB	0 B

☐ Check all With selected:

[Print](#) [Data dictionary](#)

[Create new table](#)

Table name: Number of columns: 4 [Create](#)

phpMyAdmin

Recent Favourites

New

holiday_package

ind_pjc_owner_info

New

registration

information_schema

mysql

performance_schema

phpmyadmin

python_example

test

Server: 127.0.0.1 Database: ind_pjc_owner_info Table: registration

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Privileges](#) [Operations](#) [Tracking](#) [Triggers](#)

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 7 (8 total, Query took 0.0009 seconds)

SELECT * FROM `registration`

☐ Profiling [Edit inline](#) [Explain SQL](#) [Create PHP code](#) [Refresh](#)

☐ Show all Number of rows: 25 Filter rows: Search this table

Extra options

NAME	AGE	ADDRESS	PHONE_NO	EMAIL	CAT_NAME	CAT_AGE	CAT_BREED
dehya	28	port ortmos, sumeru	123654789	dehya@gi.com	scab	Mature Adult(7-10)	Bengal
shosuke	24	fruit stall rukadevata, sumeru	135246987	shouk@gi.com	kazu	Young Adult(1-6)	Siamese
nahida	38	empress catle, sumeru	162534798	ida@gi.com	sroom	Kitten(0-1)	Domestic
nouvellette	58	opera house epicalise, fountain	198657423	lette@gi.com	furina	Kitten(0-1)	Russian Blue
thoma	34	yashiro house, inazuma	125436888	thoma@gi.com	neko	Mature Adult(7-10)	Persian
venti	64	windmill lake, monstadt	1236542239	ltnev@gi.com	wsk	Mature Adult(7-10)	Domestic
wriosley	47	fortress of meropide, fountain	1999999999	eleley@gi.com	lgou	Senior(>10)	Maine Coon
zhongli	56	qingxen village, liyue	1236252236	oldmonarch@gi.com	xiao	Kitten(0-1)	Bombay

☐ Show all Number of rows: 25 Filter rows: Search this table