

# UNIVERSITI TEKNOLOGI MARA KEDAH BRANCH

# SCHOOL OF INFORMATION SCIENCE COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

**DIPLOMA IN INFORMATICS LIBRARY (IM144)** 

**IML208: PROGRAMMING FOR LIBRARIES** 

INDIVIDUAL PROJECT: DATA ENTRY FOR MYSQL DATABASE

CAT DAYCARE CENTRE

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## 1.0 INTRODUCTION

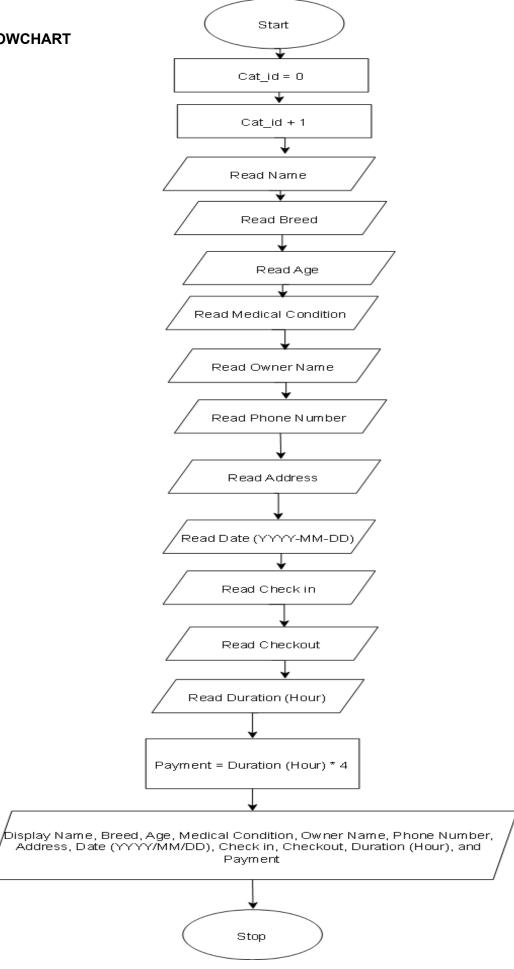
Welcome to the purrfect world of our Cat Daycare Database, where feline enthusiasts and their delightful companions find a seamless haven for their daycare needs. This comprehensive database serves as the digital heartbeat of our feline-centric haven, meticulously storing essential information about each cat, their devoted owners, and the crucial reservation details.

In the bustling realm of modern pet care, the demand for organized and efficient management has become increasingly evident. Our Cat Daycare Database addresses this need with precision and care, streamlining the process of keeping track of the diverse personalities and requirements of our furry guests. Through the integration of advanced technology, this database ensures a smooth and enjoyable experience for both the cats and their loving owners.

The necessity for such a database arises from the complexities of managing a dynamic cat daycare environment. From name and health records, our database ensures that every detail is securely recorded and easily accessible. By storing information about the owners, we facilitate seamless communication, creating a bond of trust between the daycare staff and the caregivers. Moreover, the reservation time details are diligently documented to ensure a structured and organized daily routine, providing cats with the consistency they thrive on.

In essence, our Cat Daycare Database isn't just a repository of data; it's the heartbeat of our commitment to exceptional feline care. As we navigate the intricate world of cat daycare, this database is a testament to our dedication to creating a comfortable, safe, and loving environment for our four-legged friends and their human companions. Welcome to a world where every meow matters and every detail is lovingly preserved in our feline haven's digital embrace.

# 2.0 FLOWCHART



## 3.0 PYTHON CODE

Figure 3.1 Python code for generating running number and connecting python code to mysql database

```
# Connect to your MySQL database
27
28
    mydb = mysql.connector.connect(
29
        host='localhost',
        user='root',
        password='',
31
        database='cat daycare centre'
32
33
35
    # Create a cursor object to execute SQL queries
36
    cursor = mydb.cursor()
37
```

Figure 3.2 Connecting python code to mysql database

```
def perform_calculation():
    try:
    # Get the value from the Entry widget and convert it to a float
    hour = float(duration_hour_entry.get())

# Perform a calculation
payment = hour * 4

# Update the result_label with the calculated result
payment_label.config(text=f'Payment: RM {payment}')

except ValueError:
#Handle the case where the input is not a valid float
payment_label.config(text='Invalid input. Please enter a number.')
```

Figure 3.3 Python code for performing calculation(payment)

Figure 3.4 Examples of python code for attributes

```
175
176 button = ttk.Button(cat_info_frame, text='Save data', command=save_data)
177 button.grid(row=6, column=5, padx=10, pady=10)
178
179
180 root.mainloop()
181
```

Figure 3.5 Save button



Figure 3.6 GUI interface for data entry

## 4.0 MYSQL DATABASE

The database is called 'cat\_daycare\_centre'. It contains 1 table named 'cat' with 13 key attributes pertaining to the data related to cat daycare service.

The attributes in the table are CAT\_ID, CAT\_NAME, CAT\_BREED, CAT\_AGE, CAT\_MEDCON, DATE, CHECK IN, CHECK OUT, DURATION\_HOUR, OWNER\_NAME, PHONE NUM, ADDRESS, and PAYMENT.



Figure 4.1 Table in cat daycare centre database

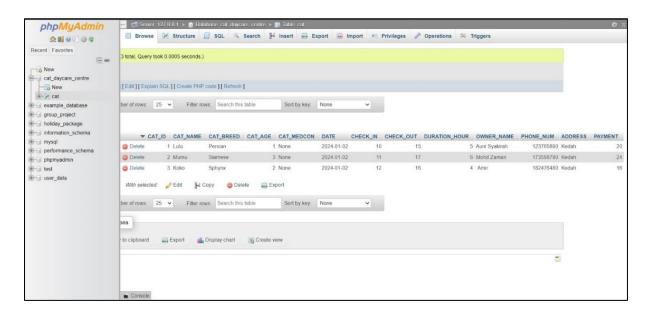


Figure 4.2 Examples of stored data in cat\_daycare\_centre database

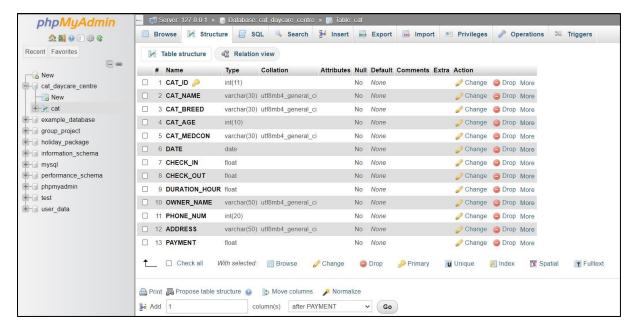


Figure 4.3 Sructure