

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS, UNIVERSITI TEKNOLOGI MARA, MERBOK, KEDAH

DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

"INDIVIDUAL PROJECT"

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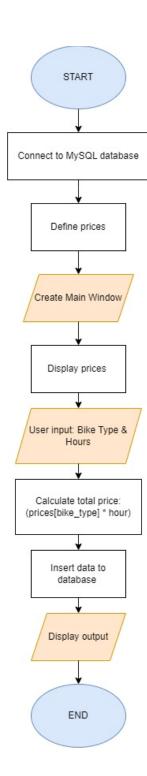
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1.0 INTRODUCTION

Tourists, commuters, students, and leisure riders are among those that use bike rental services. These businesses can be found in a variety of settings, but they are most common in urban centers, tourist attractions, university campuses, and residential districts. The bike rental industry is a growing industry that is attracting entrepreneurs who want to address the growing need for affordable and convenient transportation options. A bike rental is a hired vehicle that can be utilized for a price for a set amount of time. Getting a rental bike allows people to go around more conveniently, even if they do not have access to their own personal vehicle or do not own one at all. Individuals in need of a bike must call a rental bike company and hire a vehicle. This solution improves client retention while also streamlining vehicle and crew management. In this assignment, there are several types of bikes provided according to age and the customers' convenience.

2.0 FLOWCHART



3.0 SNAPSHOT OF THE CODE

3.1 Python code

```
bike_rentalpy ×

C > Users > user > Desktop > IML208 > bike rental > \Phi bike_rentalpy > ...

1 import tkinter as tk
2 import tkinter as tk
3 aconnecting to the MySQL database
5 mydb = mysQL:connector .connect(
6 host = "localhost",
7 user = "root",
9 database = "bike_rental"
10 #Creating a cursor object to execute SQL queries
10 #Uncursor = mydb.cursor()

11 #Function to handle the calculation and database saving
12 def collect_data():
13 #Function to handle the calculation and database saving
15 def collect_data():
16 bike_type = package_var.get()
17 bike_type = package_var.get()
18 hour = int(hours_entry.get())
19 #The prices below are to defined the value from the user selections
10 prices = ""confort bike": 5,
12 ""confort bike": 5,
13 ""kids' bike": 5,
14 ""c.bike": 10,
15 ""Recumbent bike": 6,
16 ""e.bike": 10,
17 ""e.bike": 10,
18 ""e.bike": 10,
19 ""e.bike": 10,
19 ""e.bike type | *hour)
10 "#The price = (prices[bike_type] * hour)
11 total_price = (prices[bike_type] * hour)
12 sql = "Inserting data to the database (using 3 attributes).
13 sql = "Inserting data to the database (using 3 attributes).
14 ""grade = ""confort bike": 6,
15 ""grade = ""gra
```

```
bike_rentalpy ×

c> Users > user > Desktop > Ind 2008 > bike_rental > ◆ bike_rentalpy > ...

sprinting back the output.

output_label.config (text=f"Bike type : (bike_type), Hour : (hour), Total Price: RM(total_price)")

about the condition of the condition of
```

3.2 SQL

```
Tentalsql X

C: > Users > user > Desktop > IML208 > bike rental > ■ rentalsql

28 ---
21 --- Database: 'bike_rental'

29 23

24 ---
27 --- Table structure for table 'rental'

28 ---
29 ---
30 CREATE TABLE 'rental' (

31 | 'Package_type' varchar(50) NOT NULL,

32 | 'Package_phour' int(2) NOT NULL,

33 | 'Package_phour' int(2) NOT NULL,

34 | > ENDINE-InmOBD DEFAULT CHARSET-utf8mb4_COLLATE-utf8mb4_general_ci;

COMMIT;

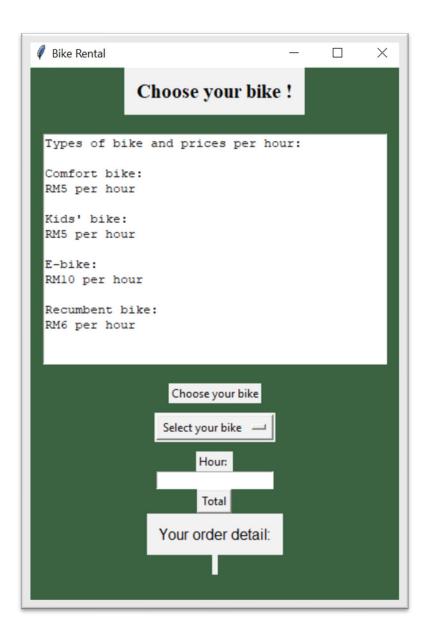
36 /* | 40101 SET_CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT=/;

38 /* | 40101 SET_COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION=*/;

40

② O & O MO MO
```

4.0 SNAPSHOT OF GUI



5.0 SNAPSHOT OF THE DATABASE

