



اَوْنُوْ سِيْطِيْ تِيْكَوْ لُوْ كِيْ مَارَا
UNIVERSITI
TEKNOLOGI
MARA

UNIVERSITI TEKNOLOGI MARA (UiTM)
CAMPUS OF SUNGAI PETANI KEDAH
FACULTY COLLEGE OF COMPUTING, INFORMATION AND MEDIA
DIPLOMA IN LIBRARY INFORMATICS
(CDIM144)

PROGRAMMING FOR LIBRARIES
(IML208)
INDIVIDUAL ASSIGNMENT

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1.0 INTRODUCTION

Every school, specifically primary and secondary schools, hosts an annual netball competition, I decided to take on netball registration as my individual assignment. In this assignment, we design and build a fundamental computer interface made up of the Create and Read (CR) functions. There are two steps involved in the Netball Registration that I have selected: create and read.

Students must register their information if they want to participate in netball. They have to input their name and student email first. They next have to select whether they are a boy or a girl. Secondly, they have to choose between the Primary School and Secondary School categories. Finally, they need to indicate how many people wish to play netball. Additionally, users have the option to click "Submit data" once they have finished registering their details. They are not permitted to play netball if they do not belong to the Primary School and Secondary School categories. Once they click "Submit data", their data have in database like in figure 4.

2.0 FLOWCHART

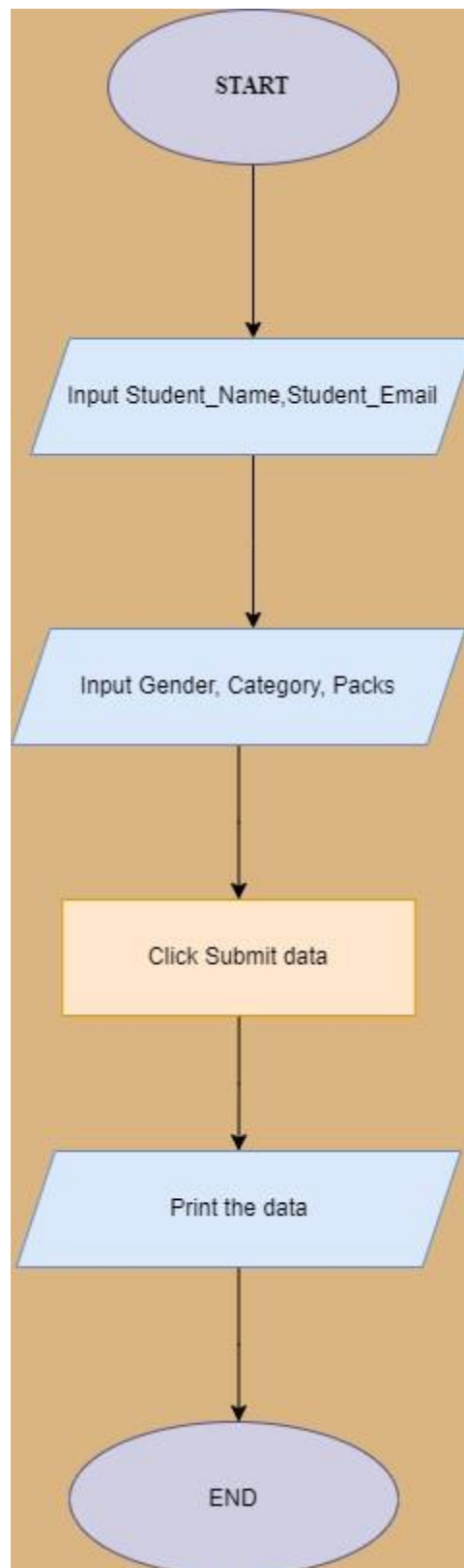


Figure 1

3.0 SNAPSHOT CODE

```
netball_registration.py X
C:\Users\wasil > OneDrive > Documents > IML208 (3) > source_code > netball_registration.py > ...
1 import tkinter as tk
2 from tkinter import ttk
3 import mysql.connector
4
5 def submit_data():
6     student_name = student_name_entry.get()
7     student_email = student_email_entry.get()
8     gender = gender_type_entry.get()
9     category = category_type_combobox.get()
10    packs = packs_entry.get()
11
12    # Connect to MySQL
13    mydb = mysql.connector.connect(
14        host="localhost",
15        user="root",
16        password="",
17        database="netball_registration"
18    )
19
20    mycursor = mydb.cursor()
21
22    # Inserting data into a table
23    sql = "INSERT INTO student_data (Student_Name, Student_Email, Gender, Category, Packs) VALUES (%s, %s, %s, %s, %s)"
24    val = (student_name, student_email, gender, category, packs)
25    mycursor.execute(sql, val)
26    mydb.commit()
```

```
netball_registration.py X
C:\Users\wasil > OneDrive > Documents > IML208 (3) > source_code > netball_registration.py > ...
28 # Clear the entry fields after submission
29 student_name_entry.delete(0, tk.END)
30 student_email_entry.delete(0, tk.END)
31 gender_type_entry.delete(0, tk.END)
32 packs_entry.delete(0, tk.END)
33
34 # Display a success message
35 Student_info.configure(state='normal')
36 Student_info.delete('1.0', tk.END)
37 Student_info.insert(tk.END, "Thank you for your registration!")
38 Student_info.configure(state='disabled')
39
40 # Your Main window, You need to have the title, geometry (MUST)
41 root = tk.Tk()
42 root.title("Netball Registration Form")
43 root.geometry('600x600')
44 root.configure(bg='#FFE5E5')
45
46 # Page title
47 label = tk.Label(root, text="Student Netball Registration", font=("Castellar", 16, "bold"), bg='#AC87C5')
48 label.grid(padx=20, pady=10)
49
50 frame = tk.Frame(root)
51 frame.grid()
```

```
File Edit Selection View Go Run ... Search
netball_registration.py X
C:\Users> wasil > OneDrive > Documents > IML208 (3) > source_code > netball_registration.py > ...

53 # Student Info Frame
54 student_info_frame = tk.LabelFrame(frame, text="Student Information", font=("Castellar", 16, "bold"), bg='#756AB6')
55 student_info_frame.grid(row=0, column=0, padx=10, pady=20)
56
57 # Student Name
58 student_name_label = tk.Label(student_info_frame, text="Student Name", bg='#E0AED0')
59 student_name_label.grid(row=0, column=0, padx=5, pady=5)
60 student_name_entry = tk.Entry(student_info_frame)
61 student_name_entry.grid(row=1, column=0, padx=5, pady=5)
62
63 # Student Email
64 student_email_label = tk.Label(student_info_frame, text="Student Email", bg='#E0AED0')
65 student_email_label.grid(row=0, column=1, padx=5, pady=5)
66 student_email_entry = tk.Entry(student_info_frame)
67 student_email_entry.grid(row=1, column=1, padx=5, pady=5)
68
69 # Gender
70 gender_type_label = tk.Label(student_info_frame, text="Gender", bg='#E0AED0')
71 gender_type_label.grid(row=0, column=2, padx=5, pady=5)
72 gender_type_entry = tk.Entry(student_info_frame)
73 gender_type_entry.grid(row=1, column=2, padx=5, pady=5)
74
75 # Category
76 category_type_label = tk.Label(student_info_frame, text="Category", bg='#E0AED0')
77 category_type_combobox = ttk.Combobox(student_info_frame, values=["Primary School", "Secondary School"])
78 category_type_label.grid(row=2, column=0)
79 category_type_combobox.grid(row=3, column=0)
```

```
File Edit Selection View Go Run ... Search
netball_registration.py X
C:\Users> wasil > OneDrive > Documents > IML208 (3) > source_code > netball_registration.py > ...

81 # Packs
82 packs_label = tk.Label(student_info_frame, text="Packs", bg='#E0AED0')
83 packs_label.grid(row=2, column=1, padx=5, pady=5)
84 packs_entry = tk.Entry(student_info_frame)
85 packs_entry.grid(row=3, column=1, padx=5, pady=5)
86
87 # Information by using textbox
88 Student_info = tk.Text(root, height=3, width=60)
89 Student_info.grid(pady=20)
90
91 # The defined list by using textbox
92 Student_info.insert(tk.END, "Registration is open to Primary school and Secondary school only! And open from 10 March until 10 May\n\n")
93 Student_info.configure(state='disabled')
94
95 for widget in student_info_frame.winfo_children():
96     widget.grid_configure(padx=10, pady=5)
97
98 # Submit Button
99 submit_button = tk.Button(root, text="Submit data", command=submit_data)
100 submit_button.grid(pady=10)
101
102 label = tk.Label(root, text="Thank You for Your Registration!", font=("New York", 14, "bold"), bg="#AC87C5")
103 label.grid(padx=10, pady=10)
104
105 root.mainloop()
```

Figure 2

4.0 SNAPSHOT GUI

Netball Registration Form

STUDENT NETBALL REGISTRATION

STUDENT INFORMATION

Student Name	Student Email	Gender
abby	abby@gmail.com	girl
Category	Packs	
Secondary School	4	

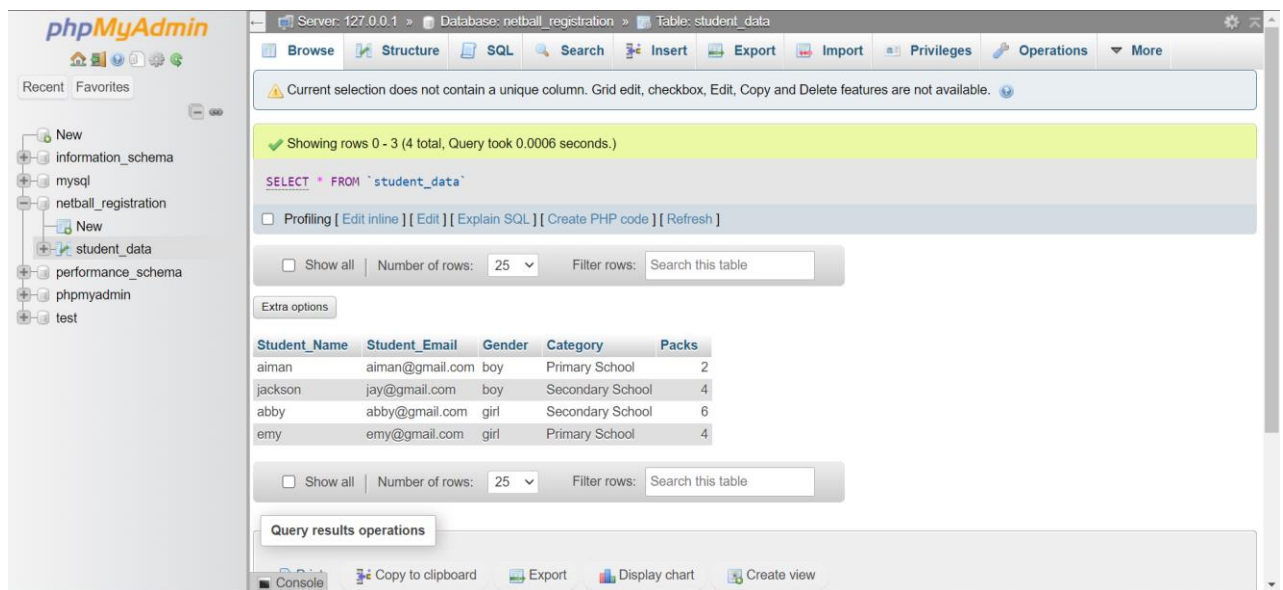
Registration is open to Primary school and Secondary school only! And open from 10 March until 10 May

Submit data

Thank You for Your Registration!

Figure 3

5.0 SNAPSHOT DATABASE



The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure tree with the following items: New, information_schema, mysql, netball_registration, New, student_data (selected), performance_schema, phpmyadmin, and test. The main panel shows the 'student_data' table selected. A warning message states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green status bar indicates 'Showing rows 0 - 3 (4 total, Query took 0.0006 seconds.)'. The SQL query 'SELECT * FROM `student_data`' is displayed. Below the query, there are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A 'Show all' checkbox is present, along with a 'Number of rows' dropdown set to 25 and a 'Filter rows' search box. The table data is displayed as follows:

Student_Name	Student_Email	Gender	Category	Packs
aiman	aiman@gmail.com	boy	Primary School	2
jackson	jay@gmail.com	boy	Secondary School	4
abby	abby@gmail.com	girl	Secondary School	6
emy	emy@gmail.com	girl	Primary School	4

Below the table, there is another 'Show all' checkbox, a 'Number of rows' dropdown set to 25, and a 'Filter rows' search box. At the bottom, the 'Query results operations' section includes links for 'Console', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

Figure 4