



اَوْنُوْرُ سِيْتِي تِيْكُوْلُوْجِيْ مَارَا
UNIVERSITI
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SCHOOL OF INFORMATION SCIENCE,

COLLEGE OF COMPUTING,
INFORMATICS AND MEDIA,

UNIVERSITI TEKNOLOGI MARA (UiTM)

DIPLOMA IN LIBRARY INFORMATICS
(CDIM 144)

PROGRAMMING FOR LIBRARIES (IML208)

“INDIVIDUAL ASSIGNMENT: COMIC PURCHASE”

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CAWANGAN KEDAH

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ACKNOWLEDGEMENT

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Furthermore, I would like to express my respect and gratitude to my lecturer, Dr Ahmad Sufi Alawi Bin Idris for helping and guiding me doing this assignment. I also wanted to thank him for teaching me this course, support me, and help me to understand about this course.

Moreover, I wanted to show my thanks to my lovely family for their support and their blessings towards my studies.

Lastly, I wanted to thank my fellow classmates for supporting me and guiding me. Because of this, I feel motivated and excited to do the assignment.

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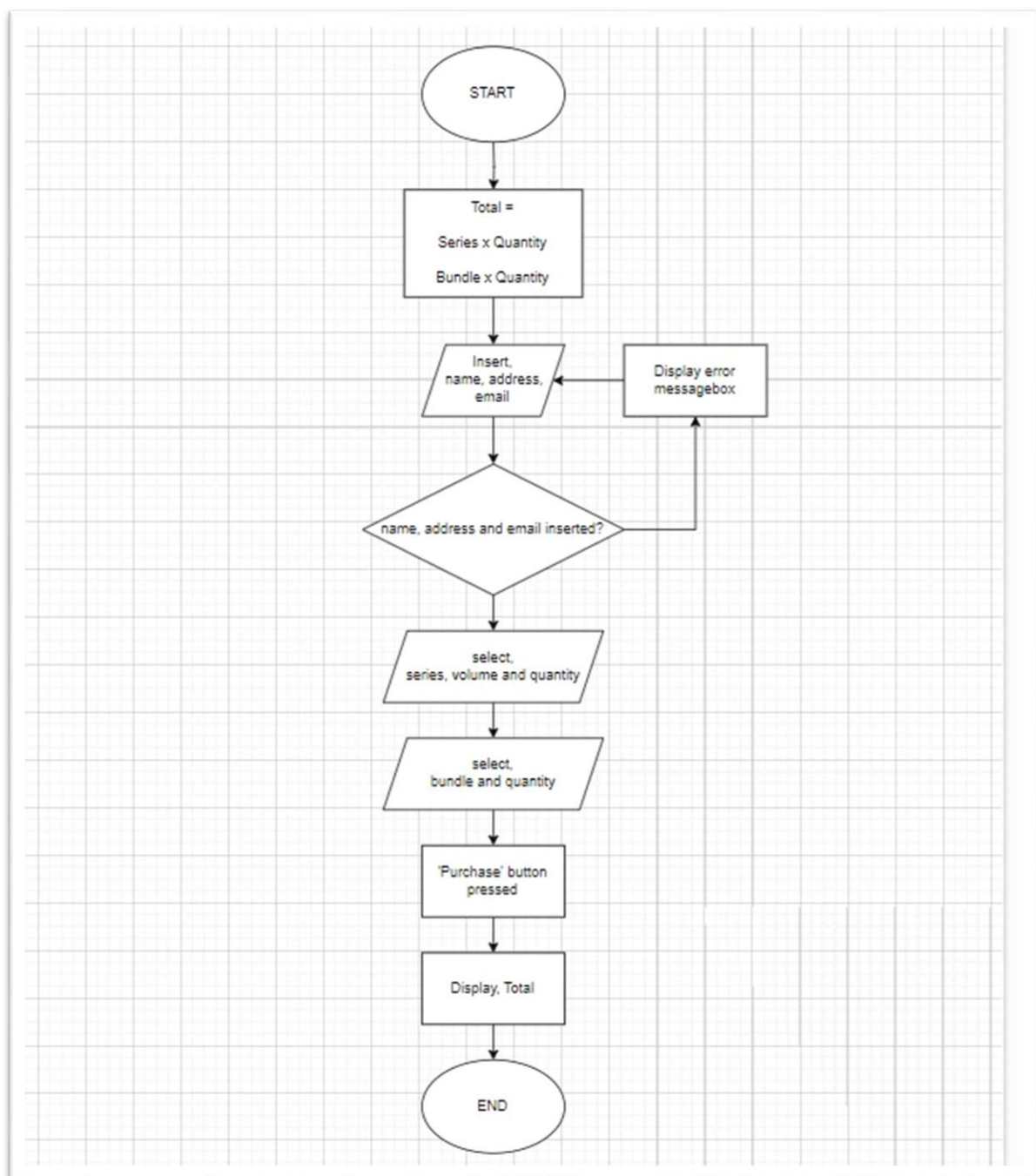
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1.0 Introduction

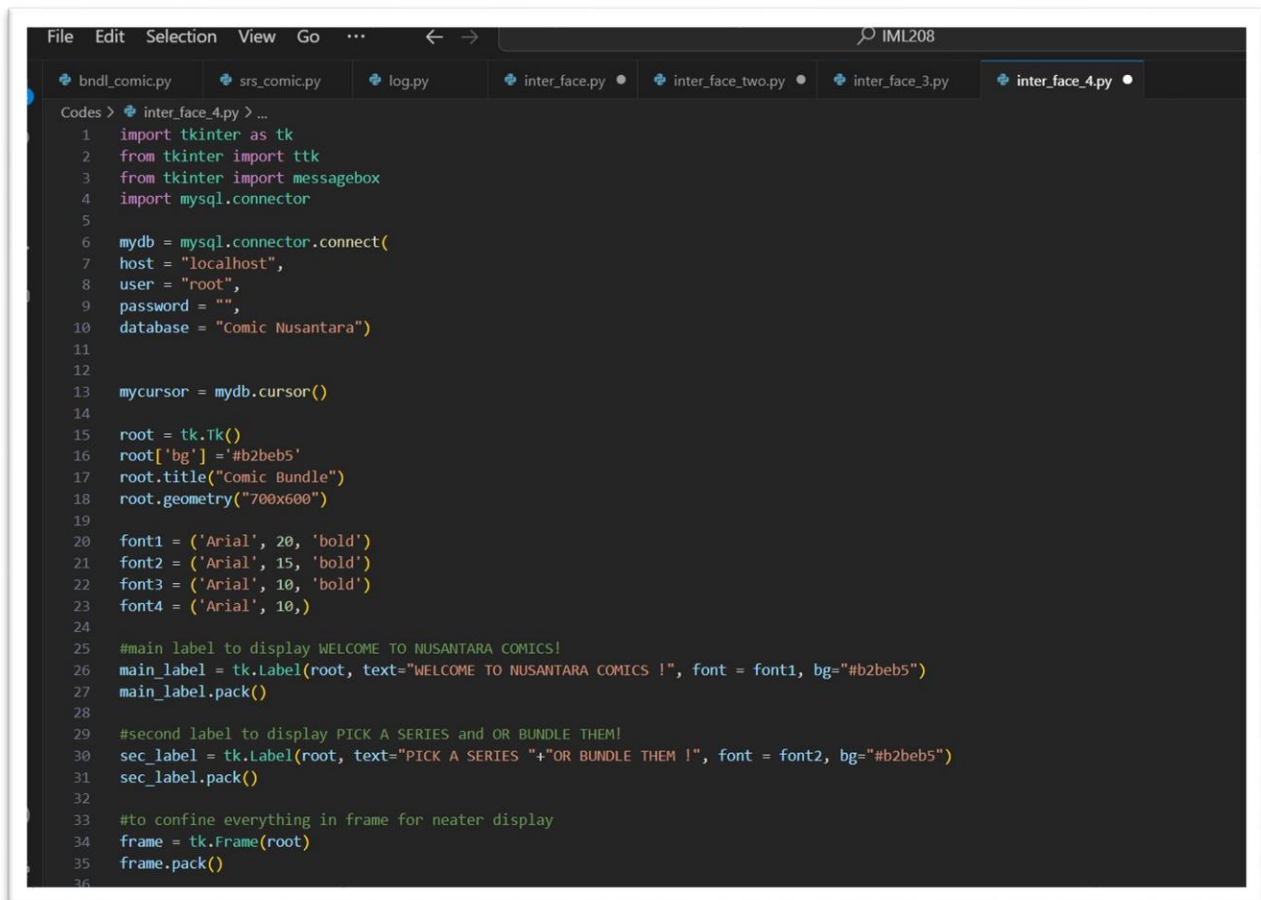
For this individual assignment, I have chosen comic purchase system as my project. Its main idea is that it will work as an interface for users that wanted to either purchase a book or buy them in a bundle form, which is a set of books in a series. This project is enabled to take input from user and store it in a database system. This will allow the handler to review said input for future purposes.

The interface consists of name entry, address entry, e-mail entry, series selection, volume selection, quantity of selected series, type of bundle, quantity of the bundle, and a function to display the grand total of everything purchased.

2.0 Flowchart



3.0 Codes



```
File Edit Selection View Go ... IML208
bndl_comic.py srs_comic.py log.py inter_face.py inter_face_two.py inter_face_3.py inter_face_4.py
Codes > inter_face_4.py > ...
1 import tkinter as tk
2 from tkinter import ttk
3 from tkinter import messagebox
4 import mysql.connector
5
6 mydb = mysql.connector.connect(
7     host = "localhost",
8     user = "root",
9     password = "",
10    database = "Comic Nusantara")
11
12
13 mycursor = mydb.cursor()
14
15 root = tk.Tk()
16 root['bg'] = '#b2beb5'
17 root.title("Comic Bundle")
18 root.geometry("700x600")
19
20 font1 = ('Arial', 20, 'bold')
21 font2 = ('Arial', 15, 'bold')
22 font3 = ('Arial', 10, 'bold')
23 font4 = ('Arial', 10,)
24
25 #main label to display WELCOME TO NUSANTARA COMICS!
26 main_label = tk.Label(root, text="WELCOME TO NUSANTARA COMICS !", font = font1, bg="#b2beb5")
27 main_label.pack()
28
29 #second label to display PICK A SERIES and OR BUNDLE THEM!
30 sec_label = tk.Label(root, text="PICK A SERIES "+ "OR BUNDLE THEM !", font = font2, bg="#b2beb5")
31 sec_label.pack()
32
33 #to confine everything in frame for neater display
34 frame = tk.Frame(root)
35 frame.pack()
36
```

```

File Edit Selection View Go ... IML208
bndl_comic.py srs_comic.py log.py inter_face.py inter_face_two.py inter_face_3.py inter_face_4.py
Codes > inter_face_4.py > ...
36
37 #prices that will be used
38 price_list = [3,10]
39 total_price = 0
40
41 #frame and label
42 buyer_info_frame = tk.LabelFrame(frame, text="Buyer Information", font = font3, bg="#b2beb5")
43 buyer_info_frame.grid(row=0, column=0, pady=20)
44
45
46 name_label = tk.Label(buyer_info_frame, text="Name:", bg="#b2beb5", font = font4)
47 name_label.grid(row=0, column=0, pady=5, sticky="w")
48
49 address_label = tk.Label(buyer_info_frame, text="Address:", bg="#b2beb5", font = font4)
50 address_label.grid(row=0, column=1, sticky="w")
51
52 email_label = tk.Label(buyer_info_frame, text="Email:", bg="#b2beb5", font = font4)
53 email_label.grid(row=0, column=2, sticky="w")
54
55 # to define the 'purchase' button that are capable of calculating the grand total and display it
56 def purchase():
57     global total_price
58     if (name_entry.get()==""):
59         messagebox.showerror(title="Error", message = "Please insert your name")
60
61     elif (address_entry.get()==""):
62         messagebox.showerror(title="Error", message = "Please insert your address")
63
64     elif (email_entry.get()==""):
65         messagebox.showerror(title="Error", message = "Please insert your Email")
66
67     else:
68         total_price = int(series_quantity_spinbox.get()) * price_list[0] + int(bundle_quantity_spinbox.get()) * price_list[1]
69         name_label = tk.Label(purchase_frame, text=f'Name: {name_entry.get()}' )
70         name_label.grid(row=0, column=0, pady=20, padx=20)
71

```

```

File Edit Selection View Go ... IML208
bndl_comic.py srs_comic.py log.py inter_face.py inter_face_two.py inter_face_3.py inter_face_4.py
Codes > inter_face_4.py > ...
54
55 # to define the 'purchase' button that are capable of calculating the grand total and display it
56 def purchase():
57     global total_price
58     if (name_entry.get()==""):
59         messagebox.showerror(title="Error", message = "Please insert your name")
60
61     elif (address_entry.get()==""):
62         messagebox.showerror(title="Error", message = "Please insert your address")
63
64     elif (email_entry.get()==""):
65         messagebox.showerror(title="Error", message = "Please insert your Email")
66
67     else:
68         total_price = int(series_quantity_spinbox.get()) * price_list[0] + int(bundle_quantity_spinbox.get()) * price_list[1]
69         name_label = tk.Label(purchase_frame, text=f'Name: {name_entry.get()}' )
70         name_label.grid(row=0, column=0, pady=20, padx=20)
71
72         total_label = tk.Label(purchase_frame, text=f'Total RM: {total_price}' )
73         total_label.grid(row=0, column=1, padx=30)
74
75         purchase_result_label = tk.Label(purchase_frame, text="Thanks For Your Purchase ! ", font= font3, bg="#b2beb5")
76         purchase_result_label.grid(row=0, column=2, padx=20)
77
78     sql = ("INSERT INTO 'buyer information' (Buyer_Name, User_Address, User_email, Comic_Series, Comic_Volume, Comic_Quantity, Comic_Bundle, Bundle_Quantity, Total_Price
79     val = (name_entry.get(), address_entry.get(), email_entry.get(), series_combobox.get(), series_volume_spinbox.get(), series_quantity_spinbox.get(), bundle_combobox.g
80
81     mycursor.execute(sql, val)
82     mydb.commit()
83
84 #Entry boxes:
85 name_entry = tk.Entry(buyer_info_frame,)
86 name_entry.grid(row=1, column=0, padx=10, pady=5)
87
88 address_entry = tk.Entry(buyer_info_frame)

```



```

File Edit Selection View Go ... IML208
bndl_comic.py srs_comic.py log.py inter_face.py inter_face_two.py inter_face_3.py inter_face_4.py
Codes > inter_face_4.py > _
82 mydb.commit()
83
84 #entry boxes
85 name_entry = tk.Entry(buyer_info_frame,)
86 name_entry.grid(row=1, column=0, padx=10, pady=5)
87
88 address_entry = tk.Entry(buyer_info_frame)
89 address_entry.grid(row=1, column=1, padx=10)
90
91 email_entry = tk.Entry(buyer_info_frame)
92 email_entry.grid(row=1, column=2, padx=10)
93
94 for widget in buyer_info_frame.winfo_children():
95     widget.grid_configure(padx=10, pady=10)
96
97
98
99 #series vol label
100 series_frame = tk.LabelFrame(frame, text="Pick a Series, RM3 each", font = font3, bg="#a9a9a9",)
101 series_frame.grid(row=1, column=0, sticky="news", padx=20, pady=20)
102
103 series_label = tk.Label(series_frame, text="Series", bg="#a9a9a9", font = font4)
104 series_label.grid(row=0, column=0, pady=10)
105
106 volume_label = tk.Label(series_frame, text="Volume", bg="#a9a9a9", font = font4)
107 volume_label.grid(row=0, column=1)
108
109 quantity_label = tk.Label(series_frame, text="Quantity", bg="#a9a9a9", font = font4)
110 quantity_label.grid(row=0, column=2)
111
112 #series entry (combobox and spinbox)
113 series_value = ["Avatar",
114                "Awang Khenit",
115                "Atomen",
116                "Aspalela",
117                "Aku, Engkau, dan Jamal"]

```

```

dit Selection View Go ... IML208
_logic.py srs_comic.py log.py inter_face.py inter_face_two.py inter_face_3.py inter_face_4.py
> inter_face_4.py > _
quantity_label.grid(row=0, column=2)

#series entry (combobox and spinbox)
series_value = ["Avatar",
                "Awang Khenit",
                "Atomen",
                "Aspalela",
                "Aku, Engkau, dan Jamal"]

series = tk.StringVar(root)
series_combobox = ttk.Combobox(series_frame, values=series_value, textvariable=series, state="readonly")
series_combobox.grid(row=1, column=0, padx=10, pady=10)

series_volume_spinbox = tk.Spinbox(series_frame, from_=1, to=5, state="readonly")
series_volume_spinbox.grid(row=1, column=1, padx=10)

series_quantity = tk.IntVar()
series_quantity_spinbox = tk.Spinbox(series_frame, from_=0, to=10, state="readonly")
series_quantity_spinbox.grid(row=1, column=2, padx=10)

for widget in series_frame.winfo_children():
    widget.grid_configure(padx=10, pady=10)

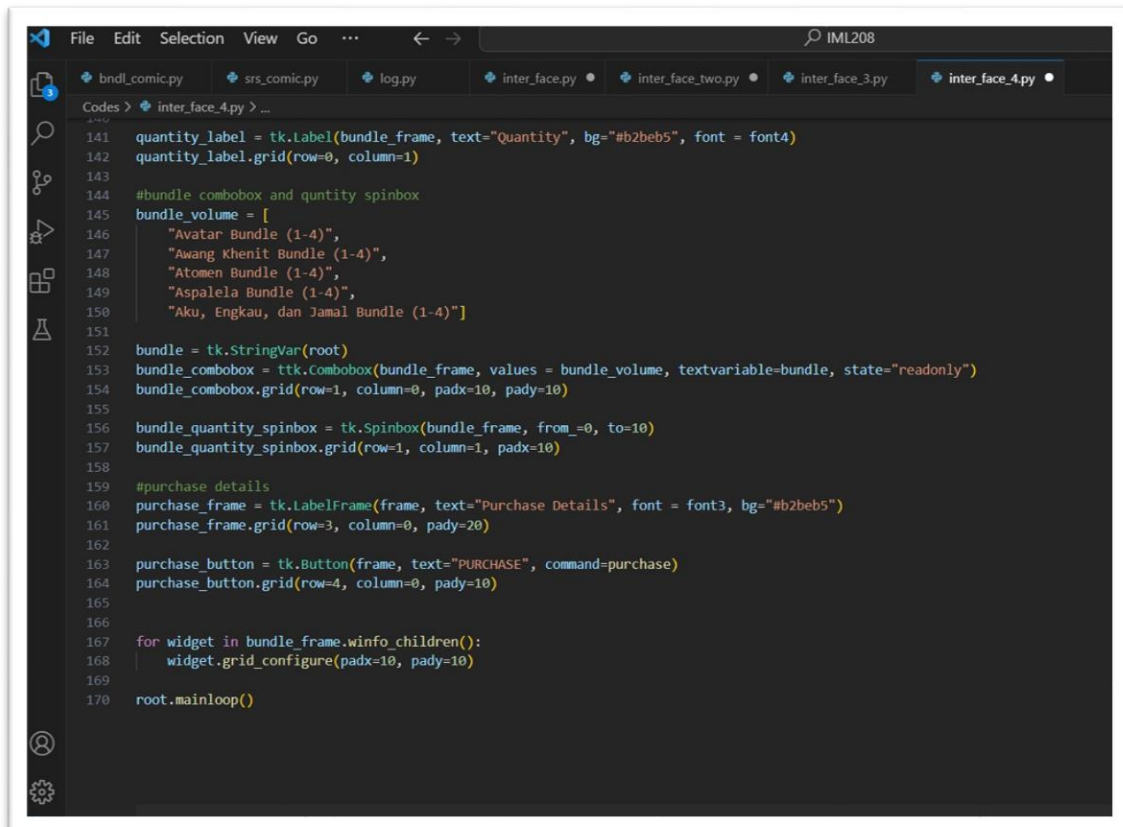
#bundle label
bundle_frame = tk.LabelFrame(frame, text="Bundle Selection, RM 10 each", font = font3, bg="#b2beb5",)
bundle_frame.grid(row=2, column=0,)

bundle_label = tk.Label(bundle_frame, text="Bundle", bg="#b2beb5", font = font4)
bundle_label.grid(row=0, column=0)

quantity_label = tk.Label(bundle_frame, text="Quantity", bg="#b2beb5", font = font4)
quantity_label.grid(row=0, column=1)

#bundle combobox and quantity spinbox
bundle_volume = [

```



The image shows a screenshot of a code editor window with a dark theme. The editor has a menu bar at the top with 'File', 'Edit', 'Selection', 'View', 'Go', and a search icon. Below the menu bar is a tab bar with several open files: 'bndl_comic.py', 'srs_comic.py', 'log.py', 'inter_face.py', 'inter_face_two.py', 'inter_face_3.py', and 'inter_face_4.py'. The active file is 'inter_face_4.py'. The code is written in Python and uses Tkinter for GUI development. It includes comments and line numbers from 141 to 170. The code defines a 'bundle_frame' containing a 'quantity_label', a 'bundle_combobox' with a list of bundle names, and a 'bundle_quantity_spinbox'. It also defines a 'purchase_frame' containing a 'purchase_button'. The code ends with a loop to configure widget padding and a call to 'root.mainloop()'.

```
141 quantity_label = tk.Label(bundle_frame, text="Quantity", bg="#b2beb5", font = font4)
142 quantity_label.grid(row=0, column=1)
143
144 #bundle combobox and quantity spinbox
145 bundle_volume = [
146     "Avatar Bundle (1-4)",
147     "Awang Khenit Bundle (1-4)",
148     "Atomen Bundle (1-4)",
149     "Aspalela Bundle (1-4)",
150     "Aku, Engkau, dan Jamal Bundle (1-4)"]
151
152 bundle = tk.StringVar(root)
153 bundle_combobox = ttk.Combobox(bundle_frame, values = bundle_volume, textvariable=bundle, state="readonly")
154 bundle_combobox.grid(row=1, column=0, padx=10, pady=10)
155
156 bundle_quantity_spinbox = tk.Spinbox(bundle_frame, from_=0, to=10)
157 bundle_quantity_spinbox.grid(row=1, column=1, padx=10)
158
159 #purchase details
160 purchase_frame = tk.LabelFrame(frame, text="Purchase Details", font = font3, bg="#b2beb5")
161 purchase_frame.grid(row=3, column=0, pady=20)
162
163 purchase_button = tk.Button(frame, text="PURCHASE", command=purchase)
164 purchase_button.grid(row=4, column=0, pady=10)
165
166
167 for widget in bundle_frame.winfo_children():
168     widget.grid_configure(padx=10, pady=10)
169
170 root.mainloop()
```

4.0 GUI

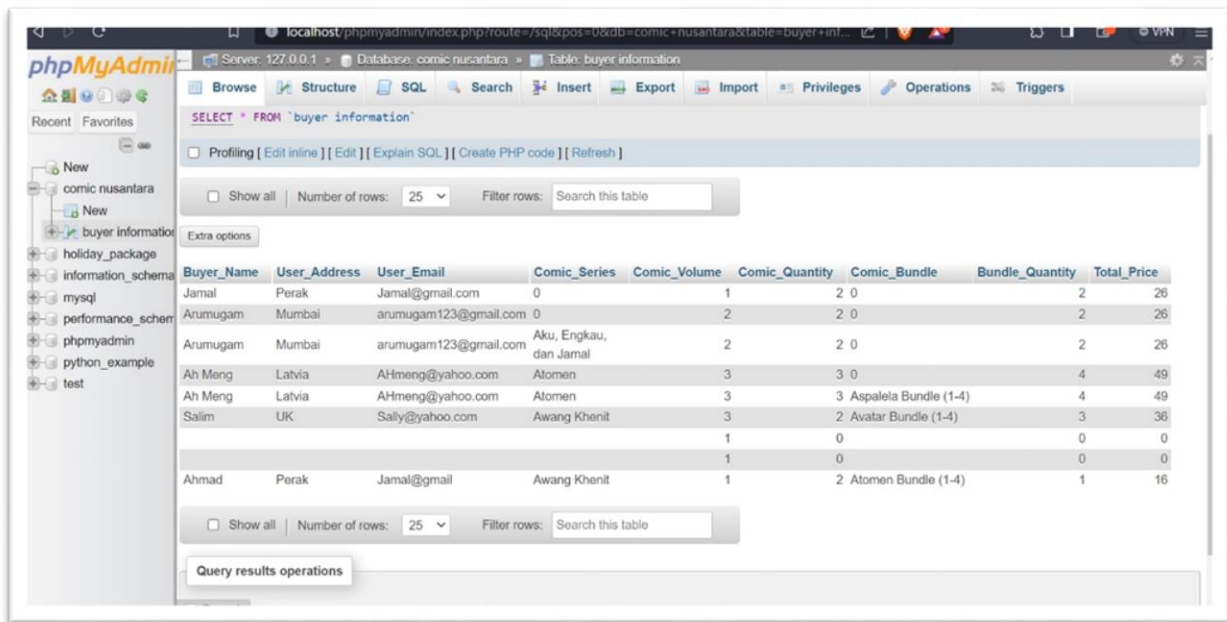
The screenshot displays a web application window titled "Comic Bundle". The main heading reads "WELCOME TO NUSANTARA COMICS !" followed by the instruction "PICK A SERIES OR BUNDLE THEM !".

The form is organized into three main sections:

- Buyer Information:** Contains three input fields labeled "Name:", "Address:", and "Email:".
- Pick a Series, RM3 each:** A table with three columns: "Series", "Volume", and "Quantity". The "Series" column has a dropdown menu. The "Volume" column has a numeric input field with the value "1". The "Quantity" column has a numeric input field with the value "0".
- Bundle Selection, RM 10 each:** A table with two columns: "Bundle" and "Quantity". The "Bundle" column has a dropdown menu. The "Quantity" column has a numeric input field with the value "0".

At the bottom center of the form is a button labeled "PURCHASE".

5.0 Database



The screenshot shows the phpMyAdmin interface for a database named 'comic nusantara'. The 'buyer information' table is selected, and the SQL query 'SELECT * FROM `buyer information`' is entered in the query box. The table structure is displayed below the query box, showing columns: Buyer_Name, User_Address, User_Email, Comic_Series, Comic_Volume, Comic_Quantity, Comic_Bundle, Bundle_Quantity, and Total_Price. The table contains 10 rows of data.

Buyer_Name	User_Address	User_Email	Comic_Series	Comic_Volume	Comic_Quantity	Comic_Bundle	Bundle_Quantity	Total_Price
Jamal	Perak	Jamal@gmail.com		1	2	0	2	26
Arumugam	Mumbai	arumugam123@gmail.com		2	2	0	2	26
Arumugam	Mumbai	arumugam123@gmail.com	Aku, Engkau, dan Jamal	2	2	0	2	26
Ah Meng	Latvia	AHmeng@yahoo.com	Atomen	3	3	0	4	49
Ah Meng	Latvia	AHmeng@yahoo.com	Atomen	3	3	Aspalela Bundle (1-4)	4	49
Salim	UK	Sally@yahoo.com	Awang Khenit	3	2	Avatar Bundle (1-4)	3	36
				1	0		0	0
				1	0		0	0
Ahmad	Perak	Jamal@gmail	Awang Khenit	1	2	Atomen Bundle (1-4)	1	16

For this part, the proper data was inserted in the 4th entry, starting with Ah Meng.



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As a student of Universiti Teknologi MARA (UiTM), it is my responsibility to act in accordance with UiTM's academic assessment and evaluation policy. I hereby pledge to act and uphold academic integrity and pursue scholarly activities in UiTM with honesty and responsible manner. I will not engage or tolerate acts of academic dishonesty, academic misconduct, or academic fraud including but not limited to:

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- b. **Plagiarism:** Using or attempts to use the work of others (ideas, design, words, art, music, etc.) without acknowledging the source; using or purchasing materials prepared by another person or agency or engaging in other behavior that a reasonable person would consider as plagiarism.
- c. **Fabrication:** Falsifying data, information, or citations in any academic assessment and evaluation.
- d. **Deception:** Providing false information with intend to deceive an instructor concerning any academic assessment and evaluation.
- e. **Furnishing false information:** Providing false information or false representation to any UiTM official, instructor, or office.

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Program Code: CDIM 144

Faculty / Campus: Information Management

*Students are required to sign one pledge for each course taken.

