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UNIVERSITY TECHNOLOGY MARA (UiTM) KEDAH BRANCH
COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS
DIPLOMA IN LIBRARY INFORMATICS (**IM144**)

PROGRAMMING FOR LIBRARY (**IML208**)

TITLE: REPORT BLOOD DONATION REGISTRATION

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SUBMISSION DATE: 4 JANUARY 2024

TheNorthFace Membership Registration

2022610854

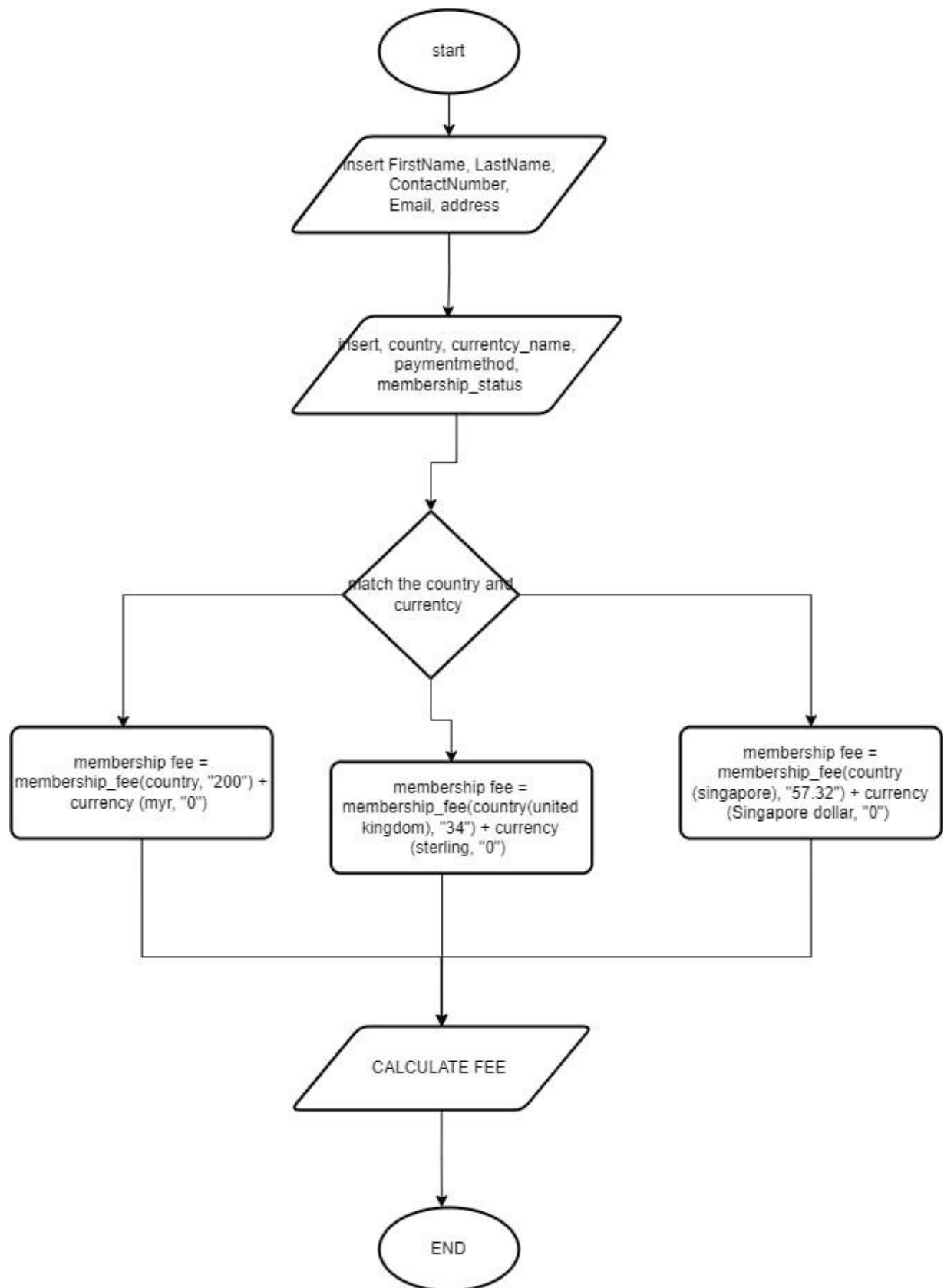
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ACKNOWLEDGMENT

Regarding my individual work for the IML207 course, I would like to sincerely thank my lecturer, Sir Ariel Shazwan Bin Norshahi, for all of the contributions he made to my comprehension and knowledge of this subject.

My sincere gratitude goes out to the distinguished members, whose knowledge and direction have greatly influenced how I see programming. My deepest gratitude also goes out to my classmates for contributing a variety of viewpoints and having thoughtful conversations that have improved my comprehension of the material. I sincerely appreciate the chance to delve into the complexities of this task and the priceless assistance.

FLOWCHART



INTRODUCTION

Efficient membership management systems are essential in today's dynamic organisations to promote member engagement and offer customised services. A sophisticated Membership Registration System has been envisioned by TheNorthFace, an imaginary corporation associated with outdoor adventure, to expedite the onboarding process for its community. This system offers a smooth graphical user interface (GUI) for users to submit their information and calculate membership fees based on various characteristics. It is cleverly created using Python and the Tkinter toolkit.

HOW THE SYSTEM WORK:

Graphical User Interface (GUI), the Tkinter-crafted, user-friendly graphical user interface (GUI) is the essence of this system. A compelling interface that includes necessary components like text labels, entry fields, and drop-down menus greets users. A visually pleasant experience is guaranteed by the deliberate styling, which incorporates distinctive typefaces and colours to improve the aesthetic appeal.

Data Input and Membership Fee Calculation, personal information such as address, phone number, email, and first and last name must be entered by the user. In addition to providing basic information, the system lets users select their preferred currency, country, and payment method. It also lets them indicate whether they are a "New Member" or a "Current Member." The magic happens when the user clicks the "Calculate Fee" button, which causes the membership cost to be dynamically calculated by the system according to the parameters that have been chosen.

Database Integration, the system connects to a MySQL database to guarantee the smooth storing and retrieval of user data. SQL queries are run through a cursor object, and the

user-supplied data is entered into a designated table called "membership_registration" along with the membership fee. TheNorthFace is now able to keep an extensive database of its community members thanks to this connection.

Adaptability and Customization, this system's capacity to adjust to various membership conditions shows how versatile it is. Users select their preferred nation and currency from pre-established lists, and the membership price is calculated dynamically by the system. Additionally, the ability to offer customised discounts based on membership status promotes inclusivity and acknowledges both new and returning members.

In summary, TheNorthFace Membership Registration System is a monument to creativity and user-centered design in the field of membership administration. This Python application, with its engaging GUI, smooth database interaction, and dynamic fee calculation, is a prime example of how technology can improve the membership experience. TheNorthFace has developed a digital gateway that not only makes the registration process easier but also fosters a sense of belonging within its diverse community, catering to both the thrill of adventure and the desire for community.

Coding

```
import tkinter
from tkinter import ttk
import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="the_north_face_membership_registration"
)

# Create a cursor object to execute SQL queries
mycursor = mydb.cursor()

def calculate_membership_fee():
    country = country_name.get()
    currency = currency_name.get()
    membership_status = membershipstatus_select.get()
    if not country or not currency:
        result_label.config(text="Please select both country and currency.")
        return
```

```

# Validate country and currency selection
valid_countries = ['Malaysia', 'United Kingdom', 'Singapore']
valid_currencies = {
    'Malaysia': ['Malaysian Ringgit'],
    'United Kingdom': ['Sterling'],
    'Singapore': ['Singapore dollar'],
}

if country not in valid_countries:
    result_label.config(text="Please select a valid country.")
    return

if currency not in valid_currencies.get(country, []):
    result_label.config(text="Match currency for the choosen country.")
    return

membership_fee = 0

if country == 'Malaysia':
    membership_fee += 200.00
elif country == 'United Kingdom':
    membership_fee += 34.00
elif country == 'Singapore':
    membership_fee += 57.32

if currency == 'Malaysian Ringgit':
    membership_fee += 0
elif currency == 'Sterling':
    membership_fee += 0
elif currency == 'Singapore dollar':
    membership_fee += 0

# Apply a discount based on the selected membership status
if membership_status == 'Current Member':
    discount_percentage = 30
    discount_amount = (discount_percentage / 100) * membership_fee
    membership_fee -= discount_amount
elif membership_status == 'New Member':
    discount_percentage = 5
    discount_amount = (discount_percentage / 100) * membership_fee
    membership_fee -= discount_amount

# Display the calculated membership fee
if country == 'Malaysia':
    result_label.config(text=f'Membership Fee: RM{membership_fee}')
elif country == 'United Kingdom':
    result_label.config(text=f'Membership Fee: £{membership_fee}')

```

```

elif country == 'Singapore':
    result_label.config(text=f'Membership Fee: ${membership_fee}')

    FirstName = str(first_name_entry.get("1.0", "end-1c"))
    LastName = str(last_name_entry.get("1.0", "end-1c"))
    ContactNumber = str(contact_number_entry.get("1.0", "end-1c"))
    Email = str(email_entry.get("1.0", "end-1c"))
    Address = str(address_entry.get("1.0", "end-1c"))

    # Fix the SQL query and pass the actual values
    sql = "INSERT INTO membership_registration (FirstName, LastName,
ContactNumber, Email, Address, country_name, currency_name,
paymentmethod_name, membershipstatus_select, result_label) VALUES (%s, %s, %s,
%s, %s, %s, %s, %s, %s, %s)"
    val = (FirstName, LastName, ContactNumber, Email, Address, country,
currency, paymentmethod_name.get(), membership_status,
result_label.cget("text"))

    mycursor.execute(sql, val)
    mydb.commit()

root = tkinter.Tk()
root.title('TheNorthFace Membership Registration')
root.geometry('1520x820')
root.configure(bg="#CDC0B0")

title_label1 =tkinter.Label(root, text='M', font=('clothing logos tfb', 143),
fg='#8B8378', bg='#CDC0B0')
title_label2 =tkinter.Label(root, text='MEMBERSHIP REGISTRATION', font=('Times
New Roman', 66), fg='#8B8378', bg='#CDC0B0')

title_label1.grid(row=0, column=0, sticky='w')
title_label2.grid(row=0, column=1, sticky='w')

user1 =tkinter.Label(root, text='REQUIRED INFORMATION', font=('Times New
Roman', 26), fg='#CDC0B0', bg='#8B8378')
FirstName =tkinter.Label(root, text='First Name', font=('Times New Roman',
26), fg='#8B8378', bg='#CDC0B0')
LastName =tkinter.Label(root, text='Last Name', font=('Times New Roman', 26),
fg='#8B8378', bg='#CDC0B0')
ContactNumber =tkinter.Label(root, text='Contact Number', font=('Times New
Roman', 26), fg='#8B8378', bg='#CDC0B0')
Email =tkinter.Label(root, text='Email', font=('Times New Roman', 26),
fg='#8B8378', bg='#CDC0B0')
Address =tkinter.Label(root, text='Address', font=('Times New Roman', 26),
fg='#8B8378', bg='#CDC0B0')

```



```

user1.grid(row=1, column=0, columnspan=2, sticky='ew')
FirstName.grid(row=2, column=0, ipady=10, sticky='ew')
LastName.grid(row=3, column=0, ipady=10, sticky='ew')
ContactNumber.grid(row=4, column=0, ipady=10, sticky='ew')
Email.grid(row=5, column=0, ipady=10, sticky='ew')
Address.grid(row=6, column=0, ipady=10, sticky='ew')

first_name_entry = tkinter.Text(root, font=('Times New Roman', 20), height=1,
width=32, fg='#8B7D6B', bg='#EEDFCC')
last_name_entry = tkinter.Text(root, font=('Times New Roman', 20), height=1,
width=32, fg='#8B7D6B', bg='#EEDFCC')
contact_number_entry = tkinter.Text(root, font=('Times New Roman', 20),
height=1, width=32, fg='#8B7D6B', bg='#EEDFCC')
email_entry = tkinter.Text(root, font=('Times New Roman', 20), height=1,
width=32, fg='#8B7D6B', bg='#EEDFCC')
address_entry = tkinter.Text(root, font=('Times New Roman', 20), height=1,
width=32, fg='#8B7D6B', bg='#EEDFCC')

first_name_entry.grid(row=2, column=1, ipadx=0,pady=0, sticky='w')
last_name_entry.grid(row=3, column=1, padx=0,pady=0, sticky='w')
contact_number_entry.grid(row=4, column=1, padx=0,pady=0, sticky='w')
email_entry.grid(row=5, column=1, padx=0,pady=0, sticky='w')
address_entry.grid(row=6, column=1, padx=0,pady=0, sticky='w')

country = tkinter.Label(root, text='Choose Country', font=('Times New Roman',
30), fg='#8B8378', bg='#CDC0B0')
country.grid(row=2, column=1, ipady=20, sticky='s')
country_name = ttk.Combobox(root, values=['Malaysia', 'United Kingdom',
'Singapore'], font=('Times New Roman', 20), height=20, width=30)
country_name.grid(row=2, column=1,sticky='e')

currency = tkinter.Label(root, text='Choose Currency', font=('Times New
Roman', 30), fg='#8B8378', bg='#CDC0B0')
currency.grid(row=3, column=1, ipady=30, sticky='s')

currency_name = ttk.Combobox(root, values=['Malaysian Ringgit', 'Sterling',
'Singapore dollar'], font=('Times New Roman', 20), height=20, width=30)
currency_name.grid(row=3, column=1, sticky='e')

paymentmethod = tkinter.Label(root, text='Payment Method', font=('Times New
Roman', 30), fg='#8B8378', bg='#CDC0B0')
paymentmethod.grid(row=4, column=1, ipady=30, )

```

```

paymentmethod_name = ttk.Combobox(root, values=['Financial Process Exchange (FPX)', 'PayPal', 'VisaCard', 'Google Pay', 'Touch n Go eWallet'], font=('Times New Roman', 20), height=20, width=30)
paymentmethod_name.grid(row=4, column=1, sticky='e')

membershipstatus = tkinter.Label(root, text='Membership Status', font=('Times New Roman', 30), fg='#8B8378', bg='#CDC0B0')
membershipstatus.grid(row=5, column=1, ipady=30)

membershipstatus_select = ttk.Combobox(root, values=['New Member', 'Current Member'], font=('Times New Roman', 20), height=20, width=30)
membershipstatus_select.grid(row=5, column=1, sticky='e')

country = tkinter.Label(root, text='Choose Country', font=('Times New Roman', 30), fg='#8B8378', bg='#CDC0B0')
country.grid(row=2, column=1, ipady=20, sticky='s')
currency = tkinter.Label(root, text='Choose Currency', font=('Times New Roman', 30), fg='#8B8378', bg='#CDC0B0')
currency.grid(row=3, column=1, ipady=30, sticky='s')

country_name= ttk.Combobox(root, values=['Malaysia', 'United Kingdom', 'Singapore'], font=('Times New Roman', 20), height=20, width=30)
country_name.grid(row=2, column=1, sticky='e')
currency_name = ttk.Combobox(root, values=['Malaysian Ringgit', 'Sterling', 'Singapore dollar'], font=('Times New Roman', 20), height=20, width=30)
currency_name.grid(row=3, column=1, sticky='e')

result_label = tkinter.Label(root, text='MEMBERSHIP PRICE', font=('Times New Roman', 20), fg='#CDC0B0', bg='#8B7D6B')
result_label.grid(row=6, column=1, sticky='e', ipadx=85)

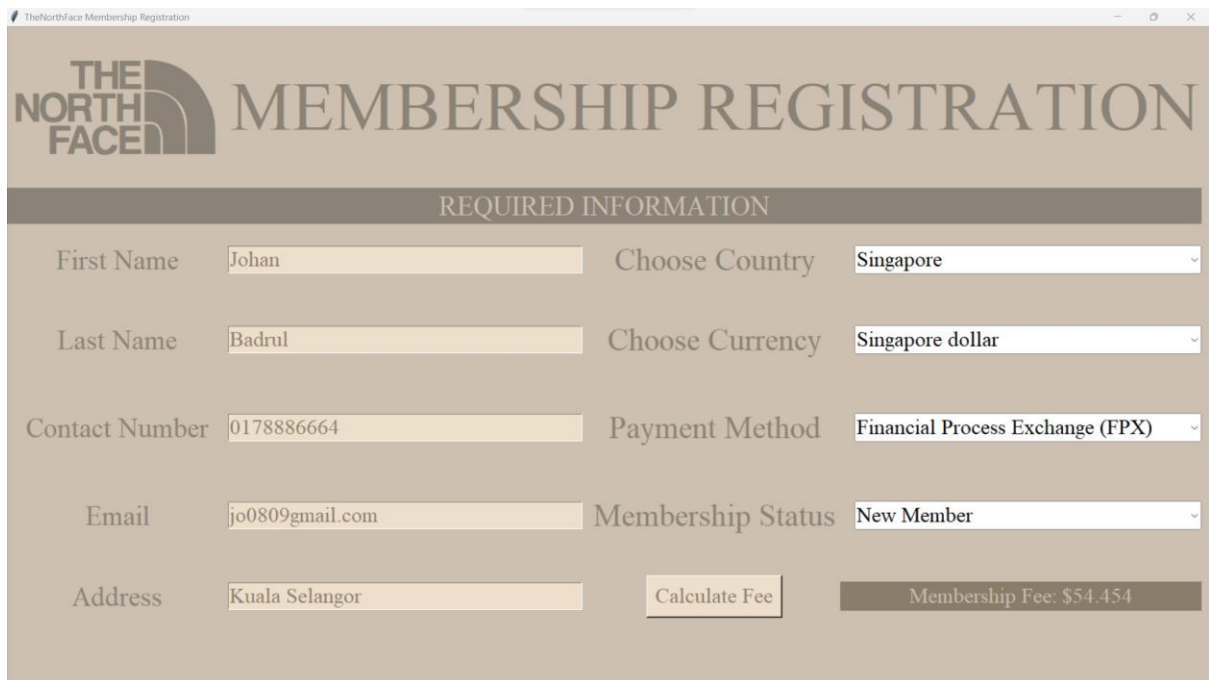
calculate_button = tkinter.Button(root, text="Calculate Fee", command=calculate_membership_fee, font=('Times New Roman', 20), fg='#8B7D6B', bg='#EEDFCC')
calculate_button.grid(row=6, column=1, pady=20)

#register_button = tkinter.Button(root, text="REGISTER", command = INSERT_DATA, font= ('Times New Roman', 20), bg="#8B8378", fg="#CDC0B0" )
#register_button.grid(row=7, column=2, padx=20, pady= 20)

root.mainloop()

```

(GUI):



The screenshot shows a web browser window titled "TheNorthface Membership Registration". The page has a brown header with the "THE NORTH FACE" logo on the left and the text "MEMBERSHIP REGISTRATION" in large, bold, serif capital letters on the right. Below the header is a dark brown bar with the text "REQUIRED INFORMATION" in white, all-caps, sans-serif font. The main content area is a light beige color and contains several form fields and dropdown menus arranged in two columns. The left column includes fields for "First Name" (Johan), "Last Name" (Badrul), "Contact Number" (0178886664), "Email" (jo0809gmail.com), and "Address" (Kuala Selangor). The right column includes dropdown menus for "Choose Country" (Singapore), "Choose Currency" (Singapore dollar), "Payment Method" (Financial Process Exchange (FPX)), and "Membership Status" (New Member). At the bottom of the form, there is a "Calculate Fee" button and a dark brown box displaying "Membership Fee: \$54.454".

REQUIRED INFORMATION			
First Name	Johan	Choose Country	Singapore
Last Name	Badrul	Choose Currency	Singapore dollar
Contact Number	0178886664	Payment Method	Financial Process Exchange (FPX)
Email	jo0809gmail.com	Membership Status	New Member
Address	Kuala Selangor	Calculate Fee	Membership Fee: \$54.454

DATABASE:

phpMyAdmin

Server: 127.0.0.1 Database: the_north_face_membership_registration Table: membership_registration

Recent Favorites

New
 holiday_package
 information_schema
 mysql
 performance_schema
 phpmyadmin
 test
 the_north_face_membership_reg
 New
 membership_registration

FirstName	LastName	ContactNumber	Email	Address	country_name	currency_name	paymentmethod_name	membershipstatus_select	result_label
MUHAMMAD HANIF AILMAN	BIN KAMARUZAMAN	01121955708	hanifaian2004@gmail.com	Kuala Berang, hulu Terengganu, Terengganu	Singapore	Singapore dollar	Financial Process Exchange (FPX)	Current Member	Membership Fee: \$40.124
MUHAMMAD AMMAR	KHAMISAN	0149307134	AMMAR@gmail.com	Kolej Malinja UTM KEDAH	United Kingdom	Sterling	Google Pay	Current Member	Membership Fee: £23.8
JOHAN	ISKANDAR	0184063913	ISKNDRO5082@gmail.com	Selangor, Petaling Jaya, Sungai Way	Malaysia	Malaysian Ringgit	Financial Process Exchange (FPX)	Current Member	Membership Fee: RM140.0
MOHD ZARIF ZAFRAN	KUZAIRI	01278837462	ZARIF2KUZAIRI@GMAIL.COM	TELUK INTAN, PERAK, MALAYSIA	United Kingdom	Sterling	PayPal	New Member	Membership Fee: £32.3
LEE	CHIE SIE	0126627361	LEE5566@gmail.com	port dickson, negeri sembilan, Malaysia	Singapore	Singapore dollar	Google Pay	Current Member	Membership Fee: \$40.124
MUHAMMAD AFHAM		01128567340	afhamahathir11@gmail.com	149 persiaran chandan 9 Taman Chandan putri kuala ...	Malaysia	Malaysian Ringgit	VisaCard	New Member	Membership Fee: RM190.0
MUHAMMAD ZARIF HILMAN		0175468718	ZARIFHILMAN15@gmail.com	Taman kurau sejati	Malaysia	Malaysian Ringgit	VisaCard	New Member	Membership Fee: RM190.0
Johan	Badrul	0178886664	jo0809@gmail.com	Kuala Selangor	Singapore	Singapore dollar	Financial Process Exchange (FPX)	New Member	Membership Fee: \$54.454

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Console | **Tools** | **Operations**