



اَبُو سَيِّدِي تِكْنُوْلُوجِي مَارَا
UNIVERSITI
TEKNOLOGI
MARA

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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In reference to my individual assignment for the IML207 course, I would like to express my sincere appreciation and gratitude to my lecturer SIR AIRUL SHAZWAN BIN NORSHAHIMI for contributed to my understanding and knowledge in this subject matter.

I extend my deepest acknowledgements to the esteemed members, whose expertise and guidance have been paramount in shaping my comprehension of programming . Additionally, my sincere thanks go to my fellow classmates for engaging in insightful discussions and offering different perspectives, which have further enhanced my understanding of the subject matter. I am truly grateful for the opportunity to dive into the intricacies of this assignment and for the invaluable support.

INTRODUCTION

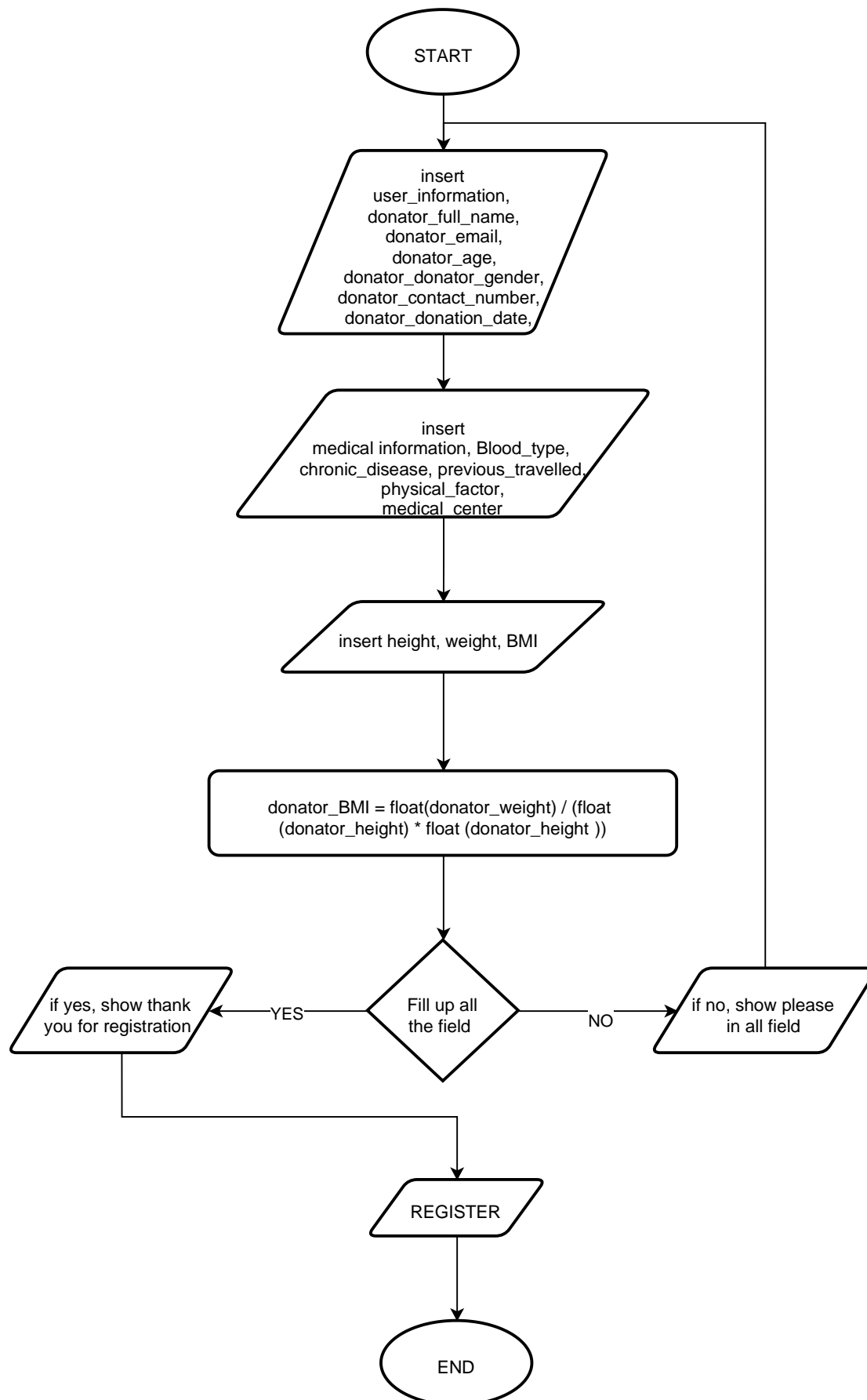
In a time when technology is a driving force behind social change, the combination of public service and programming becomes essential. In order to help and expedite the vital process of blood donation, this individual assignment explores the development of an extensive Blood Donation Registration System using programming concepts. Combining software development with the humanitarian activity of blood donation represents a ground-breaking move in improving healthcare services' usability, efficacy, and accessibility.

The main goal of this project is to create and deploy an intuitive interface that makes it easy for donors to register and gives administrators a strong platform to handle donation information. It is impossible to overestimate the importance of blood donation, which provides a lifeline to countless people in need. This assignment aims to facilitate a streamlined registration process that crosses geographical barriers by bridging the gap between donors and beneficiaries through the utilization of programming languages and frameworks. Scalability and security will be given top priority in the layout of the system, guaranteeing a trustworthy store for important donor data while abiding by data privacy laws.

HOW THE SYSTEM WORK

The system work by the user need to fill up their personal information through the gui to link the database that was provided. So this project as a head quarters for the ministry of health that was to the who are interested to donate their blood for those who are required the donation. Moreover this GUI or project can give benefit to them because they no need to struggling for them to come to the hospital for register as physical registered.

FLOW CHART



SHOW CODE

```
import tkinter as tk
import mysql.connector
import array
import random
from tkinter import ttk
from tkinter import messagebox
from tkinter import Spinbox
import os

# Connect to your MySQL database
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="blood_donation_registration"
)

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

def REGISTER():
    donator_full_name = donator_full_name_entry.get()
    donator_email = donator_email_entry.get()
    donator_age = donator_age_combobox.get()
    donator_gender = donator_gender_combobox.get()
    donator_contact_number = donator_contact_number_entry.get()
    donator_address = donator_address_entry.get()
    donator_donation_date = donator_donation_date_combobox.get()
    donator_blood_type = donator_blood_type_combobox.get()
    donator_chronic_disease = donator_chronic_disease_combobox.get()
    donator_previous_travelled = donator_previous_travelled_combobox.get()
    donator_physical_factor = donator_physical_factor_combobox.get()
    donator_medical_center = donator_medical_center_combobox.get()
    donator_height = donator_height_entry.get()
    donator_weight = donator_weight_entry.get()
    donator_BMI = donator_BMI_entry.get()

    #donator_donation_date = donator_donation_date_combobox
    #for donation_date_combobox in range("1 January 2024" - "31 January
20124"):
        #donator_donation_date "1 January 2024" = :

    #print(donation_date_combobox)
```

```

    if not donator_full_name or not donator_email or not donator_age or not
donator_gender or not donator_contact_number or not donator_address or not
donator_blood_type or not donator_chronic_disease or not
donator_previous_travelled or not donator_physical_factor or not
donator_medical_center or not donator_height or not donator_weight:
        messagebox.showerror('Error', 'Please fill in all fields.')
    else:
        messagebox.showinfo('Registration Successful', 'Thank you for
registering!')

        #calculation
        donator_BMI = float(donator_weight) / (float (donator_height) * float
(donator_height))

        print("donater_full_name:", donator_full_name)
        print("donater_email:", donator_email)
        print("donater_age:", donator_age)
        print("donater_gender:", donator_gender)
        print("donater_contact_number:", donator_contact_number)
        print("donater_address:", donator_address)
        print("donation date:", donator_full_name_entry)
        print("donater_blood_type:", donator_blood_type)
        print("donater_chronic_disease:", donator_chronic_disease)
        print("donater_previous_travelled:", donator_previous_travelled)
        print("donater_physichal_factor:", donator_physical_factor)
        print("donater_medicaldonater_center:", donator_medical_center)
        print("donater_height:", donator_height)
        print("donater_weight:", donator_weight)
        print("donater_BMI:", donator_BMI)
        print("output_label.config(text=BMI)")

        for donation_date in range (1,31):
            print(donation_date)

        # To Print back The output. It will happen in the function
collect_data(). The f before the string indicates an f-string in Python.
        output_label.config(text=f" {donator_BMI}")

        # To insert your Data to your database, As for this example, you have 3
attributes. (2 Attributes from your selection (Package, Pack) and another
attributes that derived from your attributes (price))
        sql = "INSERT INTO blood_donation (donator_full_name, donator_email,
donator_age, donator_gender, donator_contact_number, donator_address,
donator_donation_date, donator_blood_type, donator_chronic_disease,
donator_previous_travelled, donator_physical_factor, donator_medical_center,
donator_height, donator_weight, donator_BMI) VALUES (%s, %s, %s, %s, %s, %s,
%s, %s, %s, %s, %s, %s, %s, %s)"

```

```

        val =(donator_full_name, donator_email, donator_age, donator_gender,
donator_contact_number, donator_address, donator_donation_date,
donator_blood_type, donator_chronic_disease, donator_previous_travelled,
donator_physical_factor, donator_medical_center, donator_height,
donator_weight, donator_BMI)
        mycursor.execute(sql, val)
        mydb.commit()

def RESET_WINDOW ():
    # REDRAW THE WINDOW

    os.popen("blood_donation.py")
    root.destroy()

#create graphic user interface (GUI)

root = tk.Tk()
root.geometry("1800x1800")
root.title("BLOOD DONATION ONLINE REGISTRATION")
root.configure(bg="#030303")

#user information
BLOOD_DONATION_REGISTRATION_root = tk.Label(root, text="BLOOD DONATION \n
REGISTRATION", font=("TIMES NEW ROMAN", 34, "bold", "italic"),
bg="#030303", fg="#F1C40F")
BLOOD_DONATION_REGISTRATION_root.grid(row=0, column=0)

registration_number_root= tk.Label(root, text="Registration number",
font=("TIMES NEW ROMAN", 20 ), bg="#030303", fg="#F1C40F" )
registration_number_root.grid(row=0, column=2, padx=100, pady=0)

number_root = tk.Label(root, text="20232", font=("TIMES NEW ROMAN", 20 ),
bg="#F1C40F", fg="#030303")
number_root.grid(row=0, column=3, sticky="ew")
#number_root = tk.Label(root,random.randint(0,999999))
#number_root.grid(row=0, column=2, padx=100, pady=0)
#print(number_root)

#note
User_information =tk.Label(root, text="    USER INFORMATION    ", font
=("TIMES NEW ROMAN", 20), bg="#F1C40F", fg="#030303")
User_information.grid(row=2, column=0, padx=0, pady=30)

Medical_information =tk.Label(root, text="    MEDICAL INFORMATION    ", font
=("TIMES NEW ROMAN", 20), bg="#F1C40F", fg="#030303")
Medical_information.grid(row=2, column=2, padx=0, pady=0)

```


#USER INFORMATION

```
donator_full_name = tk.Label(root, text="          Full Name          :", font
= ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_full_name.grid(row=3, column=0, padx=0, pady=0, sticky="ew")
donator_full_name_entry = tk.Entry(root, font=("arial", 20),)
donator_full_name_entry.grid(row=3, column=1, sticky="ew")

donator_email = tk.Label(root, text="          Email Address          :", font = ("TIMES NEW
ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_email.grid(row=4, column=0, padx=0, pady=10, sticky="ew")
donator_email_entry =tk.Entry(root, font=("arial", 20))
donator_email_entry.grid(row=4, column=1, sticky="ew")

donator_age = tk.Label(root, text="          Age          :", font
= ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_age.grid(row=5, column=0, padx=0, pady=10, sticky="ew")
donator_age_combobox = ttk.Combobox(root, font=("arial", 20), values=["18",
"19", "20", "21", "22", "23", "24", "25", "26", "27", "28", "29", "30", "31",
"32", "33", "34", "35", "36", "37", "38", "39", "40"])
donator_age_combobox.grid(row=5, column=1, sticky="ew")

donator_gender = tk.Label(root, text="          Gender          :", font
= ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_gender.grid(row=6, column=0, padx=0, pady=10, sticky="ew")
donator_gender_combobox = ttk.Combobox(root, font=("arial", 20), values=["",
"MALE", "FEMALE"])
donator_gender_combobox.grid(row=6, column=1, sticky="ew")

donator_contact_number =tk.Label(root, text="          Contact number          :", font
= ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_contact_number.grid(row=7, column=0, padx=0, pady=10, sticky="ew")
donator_contact_number_entry = tk.Entry(root, font=("arial", 20))
donator_contact_number_entry.grid(row=7, column=1, sticky="ew")

donator_address = tk.Label(root, text="          Address          :",font
= ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_address.grid(row=8, column=0, padx=0, pady=10, sticky="ew" )
donator_address_entry = tk.Entry(root, font=("arial", 20))
donator_address_entry.grid(row=8, column=1, sticky="ew")

donator_donation_date = tk.Label(root, text="          Donation date          :",font
= ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F" )
donator_donation_date.grid(row=10, column=0, padx=0, pady=10, sticky="ew" )
donator_donation_date_combobox = ttk.Combobox(root, font=("ARIAL", 20),
values=["20 January 2024", "27 January 2024"])
donator_donation_date_combobox.grid(row=10, column=1, padx=0, pady=10,
sticky="ew" )
```

```

#for donation_date in range (1,31):
    #print(donation_date)

#MEDICAL INFORMATION
donator_blood_type = tk.Label(root, text="          Blood Type          :", font
= ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_blood_type.grid(row=3, column=2, sticky="ew")
donator_blood_type_combobox = ttk.Combobox(root, font=("ARIAL", 20),
values=["", "A", "B", "AB", "O"])
donator_blood_type_combobox.grid(row=3, column=3, sticky="ew")

donator_chronic_disease= tk.Label(root, text="          Cronic disease          :",
font = ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_chronic_disease.grid(row=4, column=2, sticky="ew")
donator_chronic_disease_combobox = ttk.Combobox(root, font=("arial", 20),
values=["None", "DIABETES", "HIGH BLOOD PRESURE", "ASTHMA", "CANSER", "HIV",
"AIDS"])
donator_chronic_disease_combobox.grid(row=4, column=3, sticky="ew")

donator_previous_travelled =tk.Label(root, text="          Previous Travelled          :",
font = ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_previous_travelled.grid(row=5, column=2, sticky="ew")
donator_previous_travelled_combobox = ttk.Combobox(root, font=("arial", 20),
values=["None", "ASIA", "AFRICA", "EUROPE", "ANTARTICA", "NORTH AMERICA",
"SOUTH AMERICA", "AUSTRALIA" ])
donator_previous_travelled_combobox.grid(row=5, column=3, sticky="ew")

donator_physical_factor = tk.Label(root, text="          Physical Factor          :",
font = ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_physical_factor.grid(row=6, column=2, sticky="ew")
donator_physical_factor_combobox=ttk.Combobox(root, font=("arial", 20),
values=["None", "pregnant", "obesity", "Blind",])
donator_physical_factor_combobox.grid(row=6, column=3, sticky="ew")

donator_medical_center = tk.Label(root, text="          Medical center          :", font
= ("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_medical_center.grid(row=7, column=2)
donator_medical_center_combobox=ttk.Combobox (root, font=("arial", 20),
values=["Hospital Sultan Ismail Johor Bahru (JOHOR)","Hospital Mersing
(JOHOR)","Hospital Sultan Abdul Halim (KEDAH)","Hospital Sultanah Bahiyah
(KEDAH)","Hospital Sultan Ismail Petra (KELANTAN)","Hospital Pasir Mas
(KELANTAN)","Hospital Alor Gajah (MELAKA)","Hospital Port Dickson (NEGERI
SEMBILAN)","Hospital Tampin (NEGERI SEMBILAN)","Hospital Pekan (PAHANG)",
"Hospital Sultan Hj Ahmad Shah(PAHANG)","Hospital Balik Pulau (PULAU
PINANG)","Hospital Sungai Bakap(PULAU PINANG)","Hospital Bahagia Ulu Kinta
(PERAK)", "Hospital Teluk Intan(PERAK)","Hospital Tuanku Fauziah
(PERLIS)","Hospital Beaufort (SABAH)","Hospital Queen Elizabeth
(SABAH)","Hospital Kudat (SABAH)","Hospital Sarikei (SARAWAK)","Hospital Kapit

```

```

(SARAWAK)","Hospital Sri Aman (SARAWAK)","Hospital Sultanah Nur Zahirah
(TERENGGANU)","Hospital Hulu Terengganu (TERENGGANU)","Hospital Shah Alam
(SELANGOR)","Hospital Cyberjaya (SELANGOR)","Hospital Kuala Lumpur (WP KUALA
LUMPUR)","Hospital Labuan (WP LABUAN)","Hospital Putrajaya (WP PUTRAJAYA)"]
donator_medical_center_combobox.grid(row=7, column=3, sticky="ew")

donator_height= tk.Label(root, text="                Height                :", font
=("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_height.grid(row=8, column=2, sticky="ew")
donator_height_entry = tk.Entry(root, font=("arial", 20))
donator_height_entry.grid(row=8, column=3, sticky="ew")

donator_weight = tk.Label(root, text="                Weight                :", font
=("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_weight.grid(row=9, column=2, sticky="ew")
donator_weight_entry = tk.Entry(root, font=("arial", 20))
donator_weight_entry.grid(row=9, column=3, sticky="ew")

donator_BMI = tk.Label(root, text="                BMI                :", font
=("TIMES NEW ROMAN", 20), bg="#030303", fg="#F1C40F")
donator_BMI.grid(row=10, column=2, padx=20, pady=20 )
donator_BMI_entry = tk.Entry(root, font=("arial", 20))
donator_BMI_entry.configure(state='disabled')
#donator_BMI_entry.grid(row=10, column=3)
output_label = tk.Label(root, font=("arial", 20), bg="#030303", fg="#F1C40F")
output_label.grid(row=10, column=3, sticky="ew")

accept_var = tk.StringVar(value="Not Accepted")
terms_check = tk.Checkbutton(root, text= "I accept the terms and conditions.",
variable=accept_var, onvalue="Accepted", offvalue="Not Accepted", font=("TIMES
NEW ROMAN", 20 ), bg="#030303", fg="#F1C40F")
terms_check.grid(row=12, column=0, sticky="ew")

#check button
button = tk.Button(root, text="                REGISTER                ", command=
REGISTER, font=("TIMES NEW ROMAN", 20 ), bg="#F1C40F", fg="#030303")
button.grid(row=11, column=3, padx=20, pady=10, sticky="ew")

button2 = tk.Button(root, text="RESET", command= RESET_WINDOW, font=("TIMES
NEW ROMAN", 20 ), bg="#F1C40F", fg="#030303")
button2.grid(row=11, column=2, padx=20, pady=10, sticky="ew")

root.mainloop()

```

SCREEN SHORT GUI

BLOOD DONATION REGISTRATION

Registration number: 20232

USER INFORMATION	MEDICAL INFORMATION
Full Name :	Blood Type :
Email Address :	Cronic disease :
Age :	Previous Travelled :
Gender :	Physical Factor :
Contact number :	Medical center :
Address :	Height :
	Weight :
Donation date :	BMI :

☐ I accept the terms and conditions.

RESET REGISTER

This is the graphic user interface (GUI)

BLOOD DONATION REGISTRATION

Registration number: 20232

USER INFORMATION	MEDICAL INFORMATION
Full Name : Thalahuddin bin Nasrodin	Blood Type : B
Email Address : ddin_nasron@gmail.com	Cronic disease : None
Age : 37	Previous Travelled : None
Gender : MALE	Physical Factor : obesity
Contact number : 019-552 4069	Medical center : Hospital Pekan (PAHANG)
Address : , 25000, Kuantan, Pahang	Height : 1.96
Donation date : 20 January 2024	Weight : 87
	BMI :

☐ I accept the terms and conditions.

RESET REGISTER

User need to fill all the information need

☐ I accept the terms and conditions.

Click the “I Accept the terms and conditions” because it’s about privacy security.



After click the “register button” it will appear the messagebox that a show the user

Height	:	<input type="text" value="1.96"/>
Weight	:	<input type="text" value="87"/>
BMI	:	<input type="text" value="22.646813827571847"/>

The user BMI will appear when the user click the button “ok” on the messagebox

BLOOD DONATION ONLINE REGISTRATION

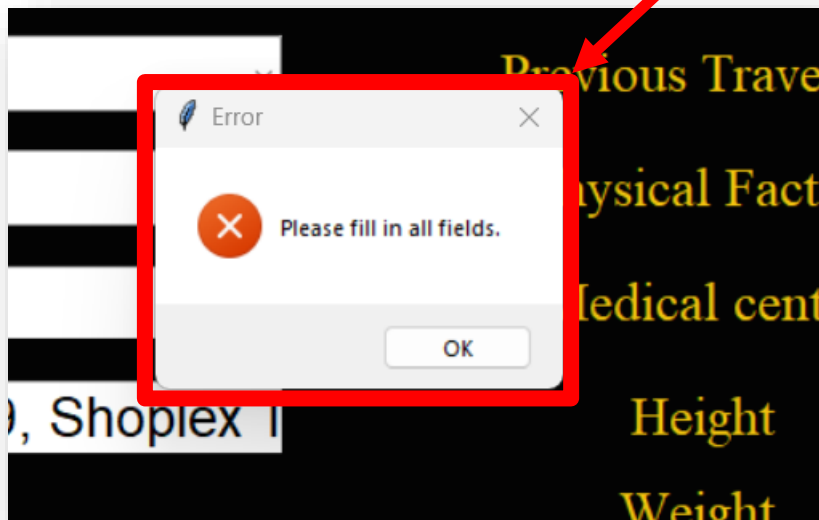
Registration number 20232

USER INFORMATION		MEDICAL INFORMATION	
Full Name :	Poon Gam Tia	Blood Type :	
Email Address :	n_xenos1625@gmail.com	Cronic disease :	None
Age :	24	Previous Travelled :	None
Gender :	FEMALE	Physical Factor :	None
Contact number :		Medical center :	Hospital Sarikei (SARAWA)
Address :	Kuantan No. 69, Shoplex T	Height :	
Donation date :	27 January 2024	Weight :	
		BMI :	

☐ I accept the terms and conditions.

RESET REGISTER

If the user doesn't fill up the field it will be appear the error



BLOOD DONATION ONLINE REGISTRATION

BLOOD DONATION REGISTRATION

Registration number 20232

USER INFORMATION	MEDICAL INFORMATION
Full Name : Poon Gam Tia	Blood Type : <input type="text"/>
Email Address : n_xenos1625@gmail.com	Cronic disease : None
Age : 24	Previous Travelled : None
Gender : FEMALE	Physical Factor : None
Contact number : <input type="text"/>	Medical center : Hospital Sarikei (SARAWA)
Address : Kuantan No. 69, Shoplex T	Height : <input type="text"/>
Donation date : 27 January 2024	Weight : <input type="text"/>
	BMI : <input type="text"/>
<input type="button" value="RESET"/> <input type="button" value="REGISTER"/>	

☐ I accept the terms and conditions.

After click the reset button it will clear the information that was fill up before.

BLOOD DONATION ONLINE REGISTRATION

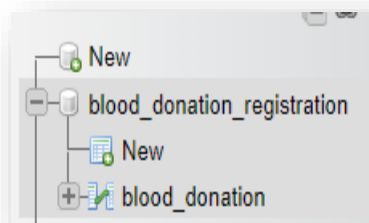
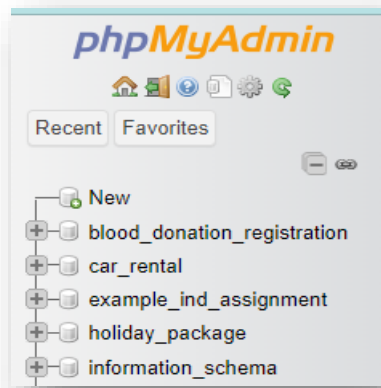
BLOOD DONATION REGISTRATION

Registration number 20232

USER INFORMATION	MEDICAL INFORMATION
Full Name : <input type="text"/>	Blood Type : <input type="text"/>
Email Address : <input type="text"/>	Cronic disease : <input type="text"/>
Age : <input type="text"/>	Previous Travelled : <input type="text"/>
Gender : <input type="text"/>	Physical Factor : <input type="text"/>
Contact number : <input type="text"/>	Medical center : <input type="text"/>
Address : <input type="text"/>	Height : <input type="text"/>
Donation date : <input type="text"/>	Weight : <input type="text"/>
	BMI : <input type="text"/>
<input type="button" value="RESET"/> <input type="button" value="REGISTER"/>	

☐ I accept the terms and conditions.

SHOW DATABASE



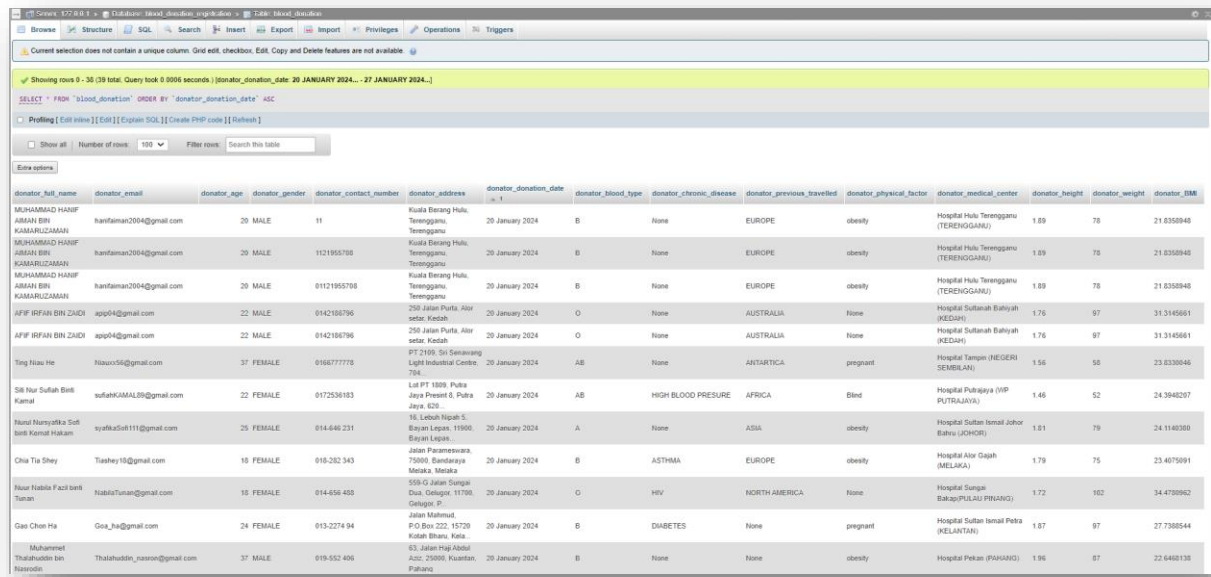
This is the database “blood_donation_registration” and the table is “blood_donation”

STRUCTURE

Table structure										
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action	
<input type="checkbox"/>	1 donator_full_name	text	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	2 donator_email	varchar(40)	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	3 donator_age	int(2)			No	None				Change Drop More
<input type="checkbox"/>	4 donator_gender	text	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	5 donator_contact_number	varchar(11)	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	6 donator_address	varchar(100)	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	7 donator_donation_date	varchar(20)	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	8 donator_blood_type	text	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	9 donator_chronic_disease	text	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	10 donator_previous_travelled	text	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	11 donator_physical_factor	text	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	12 donator_medical_center	text	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	13 donator_height	varchar(10)	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	14 donator_weight	varchar(10)	utf8mb4_general_ci		No	None				Change Drop More
<input type="checkbox"/>	15 donator_BMI	varchar(10)	utf8mb4_general_ci		No	None				Change Drop More

☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

BROWSER



Showing rows 9 - 36 (39 total. Query took 0.0006 seconds) [donor_donation_date: 20 JANUARY 2024... - 27 JANUARY 2024...]

```
SELECT * FROM 'blood_donation' ORDER BY 'donor_donation_date' ASC
```

Extra options

donor_full_name	donor_email	donor_age	donor_gender	donor_contact_number	donor_address	donor_donation_date	donor_blood_type	donor_chronic_disease	donor_previous_travelled	donor_physical_factor	donor_medical_center	donor_height	donor_weight	donor_BMI
MUHAMMAD HANIF AMAN BIN KAMARUZAMAN	hanifaman2004@gmail.com	20	MALE	11	Kuala Berang Hulu, Terengganu, Terengganu	20 January 2024	B	None	EUROPE	obesity	Hospital Hulu Terengganu (TERENGGANU)	1.69	78	21.6358948
MUHAMMAD HANIF AMAN BIN KAMARUZAMAN	hanifaman2004@gmail.com	20	MALE	1121855788	Kuala Berang Hulu, Terengganu, Terengganu	20 January 2024	B	None	EUROPE	obesity	Hospital Hulu Terengganu (TERENGGANU)	1.69	78	21.6358948
MUHAMMAD HANIF AMAN BIN KAMARUZAMAN	hanifaman2004@gmail.com	20	MALE	01121855788	Kuala Berang Hulu, Terengganu, Terengganu	20 January 2024	B	None	EUROPE	obesity	Hospital Hulu Terengganu (TERENGGANU)	1.69	78	21.6358948
AFIF RIFAN BIN ZAKI	app04@gmail.com	22	MALE	0142188796	251 Jalan Puffa, Alor Setar, Kedah	20 January 2024	O	None	AUSTRALIA	None	Hospital Sultanah Bahiyah (KEDAH)	1.76	97	31.3145661
AFIF RIFAN BIN ZAKI	app04@gmail.com	22	MALE	0142188796	251 Jalan Puffa, Alor Setar, Kedah	20 January 2024	O	None	AUSTRALIA	None	Hospital Sultanah Bahiyah (KEDAH)	1.76	97	31.3145661
Ting Hui He	tiangui56@gmail.com	37	FEMALE	0166777778	PT 2169, Sri Swarnang Light Industrial Centre, 794	20 January 2024	AB	None	ANTARCTICA	pregnant	Hospital Tampin (NEGERI SEMBILAN)	1.56	58	23.8338946
Siti Nur Sulah Binti Kamal	sulahiKAMAL28@gmail.com	22	FEMALE	0172536183	Lot PT 1889, Putra Jaya, Presint 6, Putrajaya, 629	20 January 2024	AB	HIGH BLOOD PRESURE	AFRICA	Blind	Hospital Putrajaya (WP PUTRAJAYA)	1.46	52	24.384207
Nurul Nuryatika Sidi Binti Kamal Hatan	nyulikaSidi111@gmail.com	25	FEMALE	014-646-231	16, Lebuh Nipah S, Bayan Lepas, 11900, Bayan Lepas	20 January 2024	A	None	ASIA	obesity	Hospital Sultan Ismail Johor Bahru (JOHOR)	1.81	79	24.1140380
Chia Tia Shy	Tiashey18@gmail.com	19	FEMALE	016-382-343	Jalan Parameswara, 75000, Bandaraya Melaka, Melaka	20 January 2024	B	ASTHMA	EUROPE	obesity	Hospital Alor Gajah (MELAKA)	1.79	75	23.4075991
Nuur Nabila Fadzil binti Tunan	nabilaTunan@gmail.com	19	FEMALE	014-656-400	559-G Jalan Sungai Dua, Gelang, 11700, Gelang, P.	20 January 2024	O	HIV	NORTH AMERICA	None	Hospital Sungai Bakap (PULAU PINANG)	1.72	102	34.4738962
Gee Chee He	Gee_hu@gmail.com	24	FEMALE	015-2274-94	Jalan Mahmut, P/O Box 222, 15729 Kuala Bharu, Kelantan	20 January 2024	B	DIABETES	None	pregnant	Hospital Sultan Ismail Petra (KELANTAN)	1.67	97	27.7588544
Muhammed Thathuddin bin Nasroddin	Thathuddin_nasroddin@gmail.com	37	MALE	018-582-406	63, Jalan Hap Abdul Aziz, 25000, Kuantan, Pahang	20 January 2024	B	None	None	obesity	Hospital Pekan (PAHANG)	1.96	87	22.6401138

CONCLUSION

In conclusion, Project IML208 represents a revolutionary advancement in the field of blood donation systems by utilizing Python programming to optimize and improve the effectiveness of this essential procedure. This project has shown a deep awareness of the technology world as well as the humanitarian side of blood donation through careful design and coding. The Python application created as part of this project is an example of how technology can be used to further social responsibility. It provides an easy-to-use interface that makes managing donors, making appointments, and keeping track of inventories in blood banks and donation facilities simpler.

The application ensures smoother operations and facilitates seamless communication between donors, beneficiaries, and healthcare practitioners by utilizing the adaptability and resilience of Python. Administrators are also given access to insights regarding donation patterns through the system's data analysis capabilities, which facilitate proactive approaches to emergency response plans and blood inventory management. Therefore, by guaranteeing a sufficient and timely supply of blood to people in need, this fusion of technology and healthcare not only simplifies logistical operations but also has the potential to save lives.