



UNIVERSITI TEKNOLOGI MARA
SCHOOL OF INFORMATION SCIENCE
COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATICS

(CDIM144)

PROGRAMMING FOR LIBRARIES

(IML208)

INDIVIDUAL ASSIGNMENT:

“KATARSIS CLUB MEMBERSHIP REGISTRATION SYSTEM - OUTLINE”

NAME	MATRIX NUMBER
MUHAMMAD ZIYADATULLAH BIN KAMALIS	2022627328

GROUP: CDIM1443 (D)

PREPARED FOR:

SIR MOHD FIRDAUS BIN MOHD HELMI

SUBMISSION DATE: 12/12/2023

DIPLOMA IN LIBRARY INFORMATICS

(CDIM144)

PROGRAMMING FOR LIBRARIES

(IML208)

INDIVIDUAL ASSIGNMENT:

“KATARSIS CLUB MEMBERSHIP REGISTRATION SYSTEM - OUTLINE”

MUHAMMAD ZIYADATULLAH BIN KAMALIS

2022627328

12/12/2023

TABLE OF CONTENTS

ACKNOWLEDGEMENT.....	i
1.0 DESCRIPTION OF REGISTRATION SYSTEM.....	1
1.1 PROJECT NAME.....	1
1.2 FILE NAME.....	1
1.3 PROMPT DATA.....	1
1.4 FUNCTION.....	2
1.5 CONDITIONAL STATEMENT.....	2
2.0 EVIDENCE AND SCREENSHOTS OF REGISTRATION SYSTEM.....	3
2.1 GRAPHICAL USER INTERFACE (GUI).....	3
2.2 ADDING AND UPDATING RECORD.....	6
2.3 DELETING AND CLEARING ALL RECORDS.....	9
3.0 IMPROVEMENT FOR THE REGISTRATION SYSTEM.....	11
3.1 STRENGHT.....	11
3.2 KAIZEN (ROOM FOR IMPROVEMENT).....	11

ACKNOWLEDGEMENT

As expected, this individual assignment wouldn't have been possible without several individuals who took time out of their busy schedules to lend me a hand in order to help me produce this insightful report in time.

First and foremost, the person who comes to mind is Sir Mohd Firdaus bin Mohd Helmi. He is the person who provides a detailed scheme of work that allows me to create a comprehensive report based on the given guidelines. The consultations that he provided for his students are one of the reasons why I am motivated to keep working on producing a quality report.

Aside from that, I must extend my gratitude towards my fellow coursemates. Despite everyone's struggles in writing this report, they still proved valuable members and friends in guiding me on the correct path of completing it. Also, my coursemate's expertise informed my decision to avoid unnecessary mistakes in order to work on the best version of the assignment.

In addition, I recognize my two best friends -- Akmal and Joel -- efforts in keeping me in a good state of mind throughout the writing of this report. The two of them also act as the perfect human equivalent of a soundboard because of how many ideas I could throw around and provide me with inspiring ideas. And for that, I must give a special shoutout to both of them for sticking with me through the thick and thin time of my life.

Lastly, I would be remiss if I forgot to mention the special contribution that my parents provided me in times of hardship. Despite their incredible wisdom and insightful advice, hearing their voice was the only thing that kept me afloat and inspired me to keep moving ahead even when the odds were stacked against me. And that is the reason why I love the two of them.

1.0 DESCRIPTION OF REGISTRATION SYSTEM

1.1 Project Name:

The official name of the project is “Katarsis Club Membership Registration System”. One of the main purposes of this system is to grant students registration to a new club. Aside from that, the system provides a perfect platform for the club staff to store important and personal information about newly registered students. Moreover, the system allows the personal information of the students to be kept in an organized manner for easy retrieval and modification by the club staff.

1.2 File Name:

After countless hours and many versions of the existing system, the file name for the final current version of the system is appropriately named ziyad.208indass.py.

1.3 Prompt Data:

PROMPT DATA OF THE CLUB REGISTRATION SYSTEM:	
i.	ID
ii.	Name
iii.	Gender
iv.	Age
v.	Email
vi.	Faculty
vii.	Semester
viii.	Phone Number

1.4 Function:

FUNCTION OF THE CLUB REGISTRATION SYSTEM:	
i.	Creation of new data
ii.	Reading the existing data
iii.	Recording the existing and newly updated data
iv.	Updating the existing data
v.	Deleting existing data

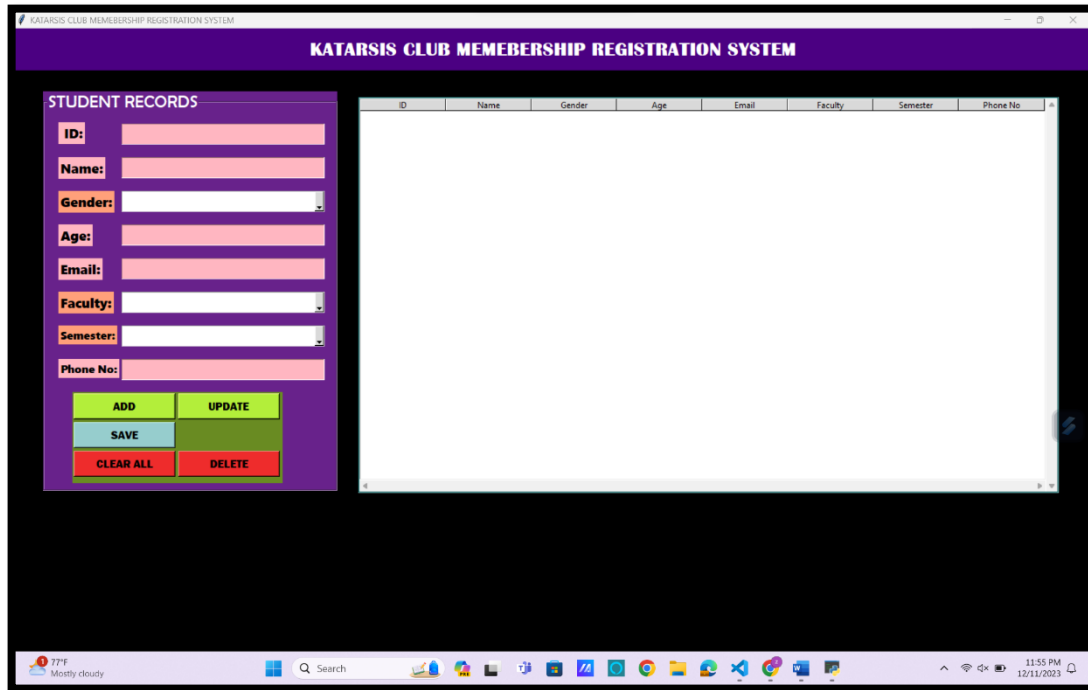
1.5 Conditional Statement: Yes

CONDITIONAL STATEMENT OF THE CLUB REGISTRATION SYSTEM:	
i.	If
ii.	Else
iii.	Try
iv.	Except
v.	For

2.0 EVIDENCE AND SCREENSHOTS OF THE REGISTRATION SYSTEM

2.1 GRAPHICAL USER INTERFACE (GUI)

- The image below displays the registration system's graphical user interface.



2.1.1 AN IMAGE OF THE SYSTEM'S GUI

- The header displays the name of the registration program in bold and capital letters.



2.1.2 AN IMAGE OF THE SYSTEM'S HEADER

- The left side of the program displays the student records table. Below the header, fully complete with a set of questions that are necessary for new students to register to become a member of a new club. In this case, the club is referred to as the Katarsis Club.

2.1.3 AN IMAGE OF THE STUDENT RECORDS TABLE

- The image below displays a set of buttons that are integral to the overall function of the registration program. Every button has a specific purpose that serves the work and success of the program.



2.1.4 AN IMAGE OF A SET OF BUTTONS OF THE REGISTRATION PROGRAM

- Several of the buttons have a small button-down arrow at the edge of the answer column
When the students click the arrow, it will display a set of prepared answers for them to choose.

Faculty:

- AC110
- AC220
- AM110
- AM228
- IM110
- IM144
- AD111
- AD114
- AD244
- CS110
- BA111
- BA118
- BA119
- BA240
- BA242
- BA243
- BA244
- BA246
- BA249
- BA250

2.1.5 AN IMAGE OF THE FACULTY COLUMN AND THE SET OF ANSWERS

Gender:

- Male
- Female
- others

2.1.6 AN IMAGE OF THE GENDER COLUMN AND THE SET OF ANSWERS

Semester:

- First Semester
- Second Semester
- Third Semester
- Fourth Semester
- Fifth Semester

2.1.7 AN IMAGE OF THE SEMESTER COLUMN AND THE SET OF ANSWERS

2.2 ADDING AND UPDATING RECORD

- The table below showcased empty blank answer columns. And the next table showcased an example of a user filling in their details. After that, click to the “Add” button to store the details in the table.

STUDENT RECORDS

ID:

Name:

Gender:

Age:

Email:

Faculty:

Semester:

Phone No:

STUDENT RECORDS

ID:

Name:

Gender:

Age:

Email:

Faculty:

Semester:

Phone No:

2.2.1 AN IMAGE OF AN EMPTY BLANK COLUMN 2.2.2 AN IMAGE OF THE USER PERSONAL

KATARSIS CLUB MEMBERSHIP REGISTRATION SYSTEM

STUDENT RECORDS

ID:

Name:

Gender:

Age:

Email:

Faculty:

Semester:

Phone No:

ID	Name	Gender	Age	Email	Faculty	Semester	Phone No
2022021975	Pedro	Male	28	pascal@gmail.com	CS110	Fifth Semester	014-5435433

2.2.3 DATA AFTER CLICKING THE “ADD” BUTTON

- The registration program also allows the staff to update the data. First, click the data that needs to be updated from the record table.

ID	Name	Gender	Age	Email	Faculty	Semester	Phone No
2022021975	Pedro	Male	28	pascal@gmail.com	CS110	Fifth Semester	014-5435433

2.2.4 AN IMAGE OF THE DATABASE TABLE

- Then the details of a record that has been previously filled in by the students will pop up at the student record table again. Then the staff is free to modify any of the data. For example, the images below show the modification of a student's name.

Name:

Name:

2.2.5 IMAGES OF AN OLD STUDENT'S NAME AND THE UPDATED VERSION

- Once finished with the modification of the selected data, click the "Update" button. Then the updated result will show up in the database table.



2.2.6 AN IMAGE OF THE UPDATE BUTTON

ID	Name	Gender	Age	Email	Faculty	Semester	Phone No
2022021975	Lando Norris	Male	28	pascal@gmail.com	CS110	Fifth Semester	014-5435433

2.2.6 AN IMAGE OF THE NEWLY UPDATED DATABASE TABLE

- Once a user fills in their personal information in the student record table. Click the “Save” button before the data will be displayed on the database table.

The image shows a web form titled "STUDENT RECORDS" with a purple background. It contains several input fields with labels in orange boxes: ID (2022021975), Name (Pedro), Gender (Male), Age (28), Email (pascal@gmail.com), Faculty (CS110), Semester (Fifth Semester), and Phone No (014-5435433). Below the fields are six buttons arranged in a 3x2 grid: ADD (yellow), UPDATE (yellow), SAVE (light blue), a large empty olive-green box, CLEAR ALL (red), and DELETE (red).

STUDENT RECORDS	
ID:	2022021975
Name:	Pedro
Gender:	Male
Age:	28
Email:	pascal@gmail.com
Faculty:	CS110
Semester:	Fifth Semester
Phone No:	014-5435433
ADD	UPDATE
SAVE	
CLEAR ALL	DELETE

2.2.6 AN IMAGE OF A FILL OUT STUDENT'S RECORD



2.2.7 AN IMAGE OF A “SAVE” BUTTON

2.3 DELETING AND CLEARING ALL RECORD

- The registration program also allows the staff to delete and clear any student's data. First, click any student's data from the database table to be deleted. And then click the "Delete" button.

ID	Name	Gender	Age	Email	Faculty	Semester	Phone No
2022131999	Lando	Male	24	norris@gmail.com	IM144	Third Semester	012-4543223
2022021975	Pedro	Male	28	pascal@gmail.com	CS110	Fifth Semester	014-5435433
2022876758	Ayu	Female	20	bestie@gmail.com	AC110	Second Semester	019-4533922
2022411538	Iman	Male	22	udang@gmail.com	BA242	Third Semester	016-4543222
2022627328	Zee	Male	24	boy@gmail.com	AD114	Third Semester	014-9975004
2022827148	Kamillah	Female	25	gurl@gmail.com	AC220	Fourth Semester	012-9584944
2022895228	Anis	Female	26	bebeh@gmail.com	IM110	Fifth Semester	018-8485894
2022617084	Nini	Female	25	babe@gmail.com	AM228	Fourth Semester	012-1145643

2.3.1. AN IMAGE OF THE DATABASE TABLE



2.3.2 AN IMAGE OF THE "DELETE" BUTTON

- Then the result will be shown in the images below.

ID	Name	Gender	Age	Email	Faculty	Semester	Phone No
2022131999	Lando	Male	24	norris@gmail.com	IM144	Third Semester	012-4543223
2022021975	Pedro	Male	28	pascal@gmail.com	CS110	Fifth Semester	014-5435433
2022876758	Ayu	Female	20	bestie@gmail.com	AC110	Second Semester	019-4533922
2022411538	Iman	Male	22	udang@gmail.com	BA242	Third Semester	016-4543222
2022827148	Kamillah	Female	25	gurl@gmail.com	AC220	Fourth Semester	012-9584944
2022895228	Anis	Female	26	bebeh@gmail.com	IM110	Fifth Semester	018-8485894
2022617084	Nini	Female	25	babe@gmail.com	AM228	Fourth Semester	012-1145643

2.3.3 AN IMAGE OF A DELETED STUDENT RECORD

- In addition, the last button of the registration program is “Clear All”. Below is a full database table of full student records.

ID	Name	Gender	Age	Email	Faculty	Semester	Phone No
2022131999	Lando	Male	24	norris@gmail.com	IM144	Third Semester	012-4543223
2022021975	Pedro	Male	28	pascal@gmail.com	CS110	Fifth Semester	014-5435433
2022876758	Ayu	Female	20	bestie@gmail.com	AC110	Second Semester	019-4533922
2022411538	Iman	Male	22	udang@gmail.com	BA242	Third Semester	016-4543222
2022627328	Zee	Male	24	boy@gmail.com	AD114	Third Semester	014-9975004
2022827148	Kamillah	Female	25	gurl@gmail.com	AC220	Fourth Semester	012-9584944
2022895228	Anis	Female	26	bebeh@gmail.com	IM110	Fifth Semester	018-8485894
2022617084	Nini	Female	25	babe@gmail.com	AM228	Fourth Semester	012-1145643

2.3.4 AN IMAGE OF A FULL DATABASE TABLE

- Click the “Clear All” button.



2.3.5 AN IMAGE OF THE “CLEAR ALL” BUTTON

- The result of the deleted table is shown in the image below,

ID	Name	Gender	Age	Email	Faculty	Semester	Phone No

2.3.6 AN IMAGE OF EMPTY DATABASE TABLE

3.0 IMPROVEMENT OF THE REGISTRATION SYSTEM

3.1 STRENGTH

STRENGTH OF THE REGISTRATION PROGRAM
i. This system is easy to create and apply for any program
ii. This system is suitable for both amateur and expert level of users
iii. This system is organised and easy to navigate without referring to any manual
iv. The widgets are perfectly placed and are easy to use

3.2 KAIZEN (ROOM FOR IMPROVEMENT)

IMPROVEMENT FOR THE REGISTRATION PROGRAM
i. The system could include a few images to make the system look more interesting
ii. The system lacks any other command that a person needs in a simple program
iii. The system is too simple to its own detrimental and several functions could be added into the program
iv. The system will benefit with a moving image or video to showcase the club logo