UNIVERSITI TUNKU ABDUL RAHMAN

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(FICT)

GROUP NAME: YB_YX_WQ

STUDENT DETAILS

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MARKING SCHEME

ASPECT	MARKS ALLOCATED	MARKS OBTAINED
Customized Reports with Proper Messages	15	
Coding (Given Table)	20	
Extra work (Add more banking transactions, reports, etc)	7	
Application of Advanced Level of Concepts	8	
TOTAL	**50**	
Converted	**15**	

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Zerwan Clinic Online System

'Greeting' will be pop out in the user interface when users run the system program. The Figure 1 below show the main transaction menu interface of Zerwan Clinic Online System ,there are 7 transaction type of function (001-007) for user to operate . Users can only type from 001 to 007 number format ,other number format will not be acceptable in this processing system in order to call out the function transaction type. If the users enters wrongly the operator or number by accident, user will received an error message of 'Please enter the appropriate transaction type.' from the system (Figure 2) and will back to the main interface of the processing system to let users try again to key in the correct command.
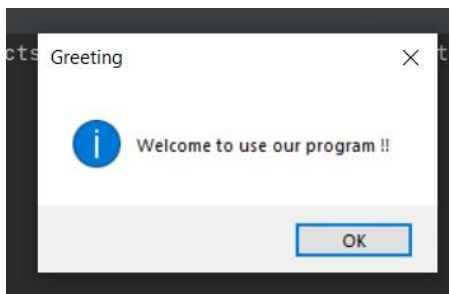

Figure 1

Figure 2

Figure 3

1. Create a new patient account

When the users picks option 001 transaction type, they can create a new patient account by key in a new patient ID, follow by the patient's name, gender , age, address, city, state, zip code, phone number, emergency contact name, emergency contact number ,patient's allergic and their sickness history. Then, if the patient ID already existed ,the system will prompt out 'This patient ID has been occupied by others. Try again...' , the user should re-enter a new patient ID that has never been used before (Figure 4). For the gender part, users should key in the right format which is 'M / m' or 'F / f' ,the system will return 'Please enter the correct gender format Male-->M Female-->F' if the user key is in the wrong format and they have to retype it. The age and zip code parts are also same as the gender part as well, users have to type in proper format or else it will return an error message and users have to re-type the correct format (Figure 5). Lastly, when users finish key in every information correctly all details will be saved into a program list and a message 'The account has been created.' will pop out to let them know that a new patient account is successfully created and a copy of the patient's details that users key in will also be prompted to let them confirm all patient's details are correct (Figure 6) . The user now can choose either continue to another transaction type or exit the system by choosing 007 transaction type.

```
006 -----> Edit appointment date
007 -----> Exit system

Enter transaction type: 001
Enter a patient ID to create account: 12345
Patient Name: James Bond
Gender (M/F): M
Enter age: 34
Address: 867,Jalan Seksyen 1/2, Arfanan
City: Kampar
State: Perak
ZipCode: 31900
Phone Number: 012-5469098
*----------------For Emergency use-----------------*
Enter emergency contact name>> Emma Watson
Enter emergency contact phone number>> 019-2349068
What is your allergic on medicine: Peanut
Sickness history: Fever
Here is your account details. Please check it before you exit the system to store it. Thank you!!
-------------------------------------------------------
ID: 12345
Name: James Bond
Gender:Male
Age: 34
Address: 867,Jalan Seksyen 1/2, Arfanan, 31900, Kampar, Perak
HP: 012-5469098
Emergency Contact Name Emma Watson
Emergency Contact Name: 019-2349068
Allergic on medicine: Peanut
Sickness History: Fever
-------------------------------------------------------
Working Progress: 100%: |||||||||||||||||||||||||||||||||||||||||||||||
The account have been created.
```

Figure 6

These are the error input in 001 transaction type

```
Enter transaction type: 001
Enter a patient ID to create account: 12345
This ID is already occupied by others.Try again...
Enter other patient ID to create account:
```

Figure 4

```
Enter transaction type: 001
Enter a patient ID to create account: abcde
invalid literal for int() with base 10: 'abcde'
Enter a patient ID in NUMBER form only: 12345
Patient Name: Jackson Wang
Gender (M/F): e
Please enter the correct gender format
Male-->M
Female-->F
Gender (M/F): 1
Please enter the correct gender format
Male-->M
Female-->F
Gender (M/F): M
Enter age: e
invalid literal for int() with base 10: 'e'
Please enter proper age format.
*Note: age should be integer.
Enter age: 28
Address: 876,Jalan Seksyen
City: Kampar
State: Perak
ZipCode: e
Please enter a proper zipcode. For example: 12345.
ZipCode: 1234
Please enter a proper zipcode. For example: 12345.
ZipCode: 31900
```

Figure 5

2. Edit patient account

The function of 002 transaction type is for users to edit the patients' accounts created in 001 transaction type. It enables users to corrected the patients' details that accidentally key in wrongly. Users must input an existing patient ID that has been created using function 001 transaction type before otherwise the system will prompt out 'This ID does not exist in our record. Try again...' (Figure 7) and return to the main transaction menu interface for users to start over at the main interface, so users have to type in an existing patient ID in order to edit it. After users key in the existing patient ID , just key in the same details like in 001 function for the new patients' details and if users type the following gender, age, zip code in wrong format, a message will be prompt out which requires the user to enter a valid format. After everything is done, all the new details of the patient will be display by the processing system on the program for users to check whether all the details are entered correctly (Figure 8) and the main transaction menu interface will be display as well for the user to take the next action them wanted (transaction type 001-007).

```
************************************************
|      Welcome to Zerwan Clinic Online System    |
************************************************


--------------------------------------------------
Number          Transaction Type
--------------------------------------------------
001 -----> Create a new patient account
002 -----> Edit patient account
003 -----> Delete patient account
004 -----> Add appointment date and treatment detail. List of medicine have been prescribed
005 -----> Print Report
006 -----> Edit appointment date
007 -----> Exit system


Enter transaction type: 002
Enter Patient ID: 12346
This ID does not exist in our record.Try again...
```

Figure 7

*This Figure below show that 003 transaction type function successfully created

```
Enter transaction type: 002
Enter Patient ID: 12345
Enter name: Lebron James
Gender (M/F): m
Enter your current age: : 34
Address: 200,Jalan Seksyen 1/5
City: Kampar
State: Perak
ZipCode: 32900
ZipCode: 32900
Phone Number: 012-2229003
*--------For Emergency use---------*
Enter emergency contact name>> Chia Wei Xin
Enter emergency contact phone number>> 019-2239022
What is your allergic on medicine: Peanut
Sickness history: Fever
Updating your particular...Please wait for a while
Working Progress: 100%:  ||||||||||||||||||||||||||||||||||||||||||||Patient's information have been successfully updated.
Please check whether correct. If not, try to edit one more time.
#################################################
ID: 12345
Name: Lebron James
Gender:M
Age: 34
Address: 200,Jalan Seksyen 1/5, 32900, Kampar , Perak
City: Kampar
State: Perak
ZipCode: 32900
HP: 012-2229003
#################################################
```

Figure 8

3. Delete patient account

For function 003 transaction type is to delete unnecessary patients' accounts , users have to key in the existing patient ID in order to delete it, a message 'Do you really want to delete your account? (yes/no)> ' will be prompt out in order to let users double confirm that they really wanted to delete the patients' accounts as this command action cannot be undo. The message will be keep repeating if the users keep on enter incorrect format of the command until the users key in the correct format command (Figure 9). The correct format of command should be 'yes' or 'no' ,if the users enter 'yes' , the patient account and all of the information will be removed from the list successfully by showing a message 'Your account have been deleted successfully' (Figure 10) ,and for entering 'no' , the system will return to the main transaction menu interface for users to selected again their transaction type from 001-007 function .If the patient ID does not exist , system will prompt out a message 'We could not found your account record...' (Figure 11) and automatically return to the main transaction menu interface for users to re-select a transaction type (001-007). After deleted the patient account using function 003, users now use can use the new patient ID same as the recently deleted patient ID to create a new patient account in function 001 and the system would not display an error message (Figure 12).

```
************************************************
|     Welcome to Zerwan Clinic Online System    |
************************************************


---------------------------------------------------
Number          Transaction Type
---------------------------------------------------
001 -----> Create a new patient account
002 -----> Edit patient account
003 -----> Delete patient account
004 -----> Add appointment date and treatment detail. List of medicine have been prescribed
005 -----> Print Report
006 -----> Edit appointment date
007 -----> Exit system


Enter transaction type: 003
Enter the Patient ID that you want to delete: 12345
Do you really want to delete your account? (yes/no)> yes
Working Progress: 100%:  |||||||||||||||||||||||||||||||||||||||||||||||||
Your account have been removed from our record...
```

Figure 9

```
************************************************
|     Welcome to Zerwan Clinic Online System    |
************************************************


------------------------------------------------
Number          Transaction Type
------------------------------------------------
001 -----> Create a new patient account
002 -----> Edit patient account
003 -----> Delete patient account
004 -----> Add appointment date and treatment detail. List of medicine have been prescribed
005 -----> Print Report
006 -----> Edit appointment date
007 -----> Exit system


Enter transaction type: 003
Enter the Patient ID that you want to delete: 1236
We could not found your account record...
```

Figure 11

```
Enter transaction type: 003
Enter the Patient ID that you want to delete: 12346
Do you really want to delete your account?(yes/no): dvs
Do you really want to delete your account?(yes/no): 1223r
Do you really want to delete your account?(yes/no): rnrtg
Do you really want to delete your account?(yes/no): Jackie
Do you really want to delete your account?(yes/no): Ali
Do you really want to delete your account?(yes/no): 1314
Do you really want to delete your account?(yes/no): 1354
Do you really want to delete your account?(yes/no): yes
Deleting your account.....
Working Progress: 100%:  |||||||||||||||||||||||||||||||||||||||||||||||||
Your account have been deleted successfully
```

Figure 10

```
Enter the Patient ID that you want to delete: 12346
Do you really want to delete your account?(yes/no): dvs
Do you really want to delete your account?(yes/no): 1223r
Do you really want to delete your account?(yes/no): rnrtg
Do you really want to delete your account?(yes/no): Jackie
Do you really want to delete your account?(yes/no): Ali
Do you really want to delete your account?(yes/no): 1314
Do you really want to delete your account?(yes/no): 1354
Do you really want to delete your account?(yes/no): yes
Deleting your account.....
Working Progress: 100%:  |||||||||||||||||||||||||||||||||||||||||||||||||
Your account have been deleted successfully
************************************************
|     Welcome to Zerwan Clinic Online System    |
************************************************


------------------------------------------------
Number          Transaction Type
------------------------------------------------
001 -----> Create a new patient account
002 -----> Edit patient account
003 -----> Delete patient account
004 -----> Add appointment date and treatment detail. List of medicine have been prescribed
005 -----> Print Report
006 -----> Edit appointment date
007 -----> Exit system


Enter transaction type: 001
Enter a patient ID to create account: 12346
Patient Name:
```

Figure 12

4. Add appointment date and treatment detail

The figure below shows the add appointment and treatment detail function which user need to key in the 004-transaction type, after that they need to key in the patient ID along with the details about the patient such as patient name, patient sickness, medicine and total amount pay.

After key in, user need to choose whether they want to add appointment date or not. If yes, it will display a message asking user to key in the appointment date in a specific format with the remarks. If no, user only need to type "no" and direct skip the remarks and the system will save all the information user key in.

At the last, when user finish keying in all required information, a message will show working in progress and then it will pop out showing the patient detail is successfully saved, then user can direct exit using function 007.

```
*************************************************
|      Welcome to Zerwan Clinic Online System    |
*************************************************


-------------------------------------------------
Number          Transaction Type
-------------------------------------------------
001 -----> Create a new patient account
002 -----> Edit patient account
003 -----> Delete patient account
004 -----> Add appointment date and treatment detail. List of medicine have been prescribed
005 -----> Print Report
006 -----> Edit appointment date
007 -----> Exit system

Enter transaction type: 004
Enter your ID: 12345
Patient Name: Rachel Tan
Enter your sickness: allergy
Medicine: antibiotic
Total amount: RM65
Do you want to make next appointment? (yes/no)>> yes
Enter the appointment date(in <dd/mm/yyyy>format): 03/04/2023
Remarks: come on morning
Saving your treatment detail......Please wait patiently
Working Progress: 100%: |||||||||||||||||||||||||||||||||||||||||||Your treatment detail is saved successfully!!!
```

-Key in patient id

- patient name

-Enter patient sickness

-Enter medicine needed

-Enter total amount payment

- Choose whether want to make next appointment date (yes/no)

- Remarks

- Exit

```
Enter transaction type: 004
Enter your ID: 123
This patient ID has been occupied by others.Try again...
Enter other Patient ID: 1234
Patient Name: Liew
Enter your sickness: Fever
Medicine: antibiotic
Total amount: RM90
Do you want to make next appointment? (yes/no)>> no
Remarks:
Saving your treatment detail......Please wait patiently
Working Progress: 100%: ||||||||||||||||||||||||||||||||||||||||||||Your treatment detail is saved successfully!!!
.............................................
```

5. Print Report

In this function, user is required to select function 005 to print the patient information. User are required to key in the patient id they want to print. After that, a message will pop out asking which report user would like to print out, if user want to print out the patient particular detail, they need to type number 1.

Other than that, if patient like to print out the treatment detail of patient, they need to type number 2 to run the printing report function. After processing, the selected patient report will be print out successfully.

- Enter patient id
- Choose which report to print (Patient Particular Detail / Treatment detail of the patient)
- System prints out
- exit

```
-----------------------------------------------------------
***********************************************
|     Welcome to Zerwan Clinic Online System    |
***********************************************


--------------------------------------------------
Number          Transaction Type
--------------------------------------------------
001 -----> Create a new patient account
002 -----> Edit patient account
003 -----> Delete patient account
004 -----> Add appointment date and treatment detail. List of medicine have been prescribed
005 -----> Print Report
006 -----> Edit appointment date
007 -----> Exit system

Enter transaction type: 005
Enter Patient ID: 123
Which report do you want to print out?

1 --> Patient Particular Detail.
2 --> Treatment Detail of the patient.


>>>> 1
Getting your information......
Working Progress: 100%: ||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
>>>> 1
Getting your information......
Working Progress: 100%: ||||||||||||||||||||||||||||||||||||||||||||||

####################################################################################
Patient ID                                                          123
Patient Name                                                      Oscar
Gender                                                            Male
Age                                                                 30
Address, city, state, and ZIP code    No5, Jalan Bunga 18, Taman Bunga 2, 31900, Kam...
Phone number                                                012-3456789
Name  of emergency contact                                      Vivian
Phone number of emergency contact                           013-5693504
Allergic on medicine                                           Panadol
History of sickness                                       Stomach ache
Name: 0, dtype: object
####################################################################################
```

*In Excel

	A	B	C	D	E	F	G	H	I
	Patient Detail								
	Patient ID	Patient Name	Gender	Age	Address, city, state, and ZIP code	Phone number	Name of emergency contact	Phone number of emer	Allergic on medicine
	123	Oscar	Male	30	No5, Jalan Bunga 18, Taman Bunga 2, 31900, Kampar, Perak	012-3456789	Vivian	013-5693504	Panadol
	124	Elson	Male	12	No56, Jalan Mutiara 4, Taman Mutiara 3, 31900, Kampar, Perak	014-6830593	Shawn	034-2845924	Antibiotic
	125	Charlie	Female	19	Jalan Universiti, Bandar Barat, 31900 Kampar, Perak	017-7504386	Shevon	017-7748818	Metformin
	126	Taylor	Female	23	Jalan Universiti, Bandar Barat, 31900 Kampar, Perak	015-6436294	Darren	013-5935924	Albuterol
	127	Tan	Male	20	45, Jalan Bugah 3, 31900 Kampar, Perak	013-2333145	Mengyi	016-5332667	Gabapentin

For example, the patient who have id 123 have been type into the system to print out his report. All the information of patient 123 in excel have been successfully print out in the system after fully processed and read。

*When user select number 2

```
Enter transaction type: 005
Enter Patient ID: 124
Which report do you want to print out?

1 --> Patient Particular Detail.
2 --> Treatment Detail of the patient.

>>>> 2
Getting your information...Please wait patiently...
Working Progress: 100%:  ||||||||||||||||||||||||||||||||||||||||||||||||||||||

#################################################################################
Date                    06/06/2022
Time                     9.00 a.m
Patient ID                    124
Patient Name                Elson
Sickness                 Diabetes
Medicine                 Asuchori
Total                         108
Next Appointment (Yes/No)      No
Appointment Date       09/08/2022
Remarks                       NaN
Name: 1, dtype: object
#################################################################################
```

*Information of patient ID 124 have been read from excel and print out

	A	B	C	D	E	F	G	H
	Patient ID	Patient Name	Gender	Age	Address, city, state, and ZIP code	Phone number	Name of emergency contact	Phone number of en
	123	Oscar	Male	30	No5, Jalan Bunga 18, Taman Bunga 2, 31900, Kampar, Perak	012-3456789	Vivian	013-5693504
	124	Elson	Male	12	No56, Jalan Mutiara 4, Taman Mutiara 3, 31900, Kampar, Perak	014-6830593	Shawn	034-2845924
	125	Charlie	Female	19	Jalan Universiti, Bandar Barat, 31900 Kampar, Perak	017-7504386	Shevon	017-7748818
	126	Taylor	Female	23	Jalan Universiti, Bandar Barat, 31900 Kampar, Perak	015-6436294	Darren	013-5935924
	127	Tan	Male	20	45, Jalan Bugah 3, 31900 Kanpar, Perak	013-2333145	Mengyi	016-5332667
	128	Lina	Female	19	606, Jalan seksyen 5/5, 31900 Kanpar, Perak	014-3264737	Jessy	010-33994737

6. Edit appointment date

In this transaction 006, user is required to enter the patient id they want to edit appointment date. Next, they are required to type in yes or no whether they want to add next appointment. After saving the record and showing all the patient information have been successfully updated, system will pop up again all the information filled by user to edit appointment date to make sure that all the information is correct. If not, user need to edit one more time to edit the appointment date by choosing again the 006 function.

Furthermore, system will also show the latest edited date and the latest edited time.

-Key in patient id

-Choose yes / no to add appointment date

-Enter appointment date

-exit

```
**********************************************
|      Welcome to Zerwan Clinic Online System     |
**********************************************


------------------------------------------------
Number          Transaction Type
------------------------------------------------
001 -----> Create a new patient account
002 -----> Edit patient account
003 -----> Delete patient account
004 -----> Add appointment date and treatment detail. List of medicine have been prescribed
005 -----> Print Report
006 -----> Edit appointment date
007 -----> Exit system

Enter transaction type: 006
Enter the patient id you want to add appointment date: 12345
Do you want to add next appointment? (yes/no): yes
Enter appointment date: 04/06/2023
Working Progress: 100%: ||||||||||||||||||||||||||||||||||||||||||||||||Patient's information have been successfully updated.


Please check whether correct. If not, try to edit one more time.
Latest edited Date: 2022-09-11
Latest Edited Time: 2022-09-11 23:08:58.668559
Patient ID:12345
Name: Rachel Tan
Sickness: allergy
Medicine Prescribed: antibiotic
Total: 65.0
.................................................
```

```
Enter transaction type: 006
Enter the patient id you want to add appointment date: 123
Do you want to add next appointment? (yes/no): no
Working Progress: 100%: ||||||||||||||||||||||||||||||||||||||||||Patient's information have been successfully updated.
------------------------------------------------------
Please check whether correct. If not, try to edit one more time.
Latest edited Date: 2022-09-12
Latest Edited Time: 2022-09-12 11:04:01.192903
Patient ID:123
Name: Oscar
Sickness: Stomach ache
Medicine Prescribed: Panadol
Total: 67
```

- If user select "yes" to add next appointment date, user need to key in the actual appointment date, after key in, system will read the latest information of the patient and print it out for the checking.

- If user select "no", the system will automatically save all information and show the latest information for user the check.

7. Exit system

To successfully save all the information of patient, user need to select function 007 which is exit. When user exit, at the same time all the record will be saved. After saved, system will show a message "Thank you for using Zerwan Clinic's online system. See You!"

```
--------------------------------------------------
Number          Transaction Type
--------------------------------------------------
001 -----> Create a new patient account
002 -----> Edit patient account
003 -----> Delete patient account
004 -----> Add appointment date and treatment detail. List of medicine have been prescribed
005 -----> Print Report
006 -----> Edit appointment date
007 -----> Exit system

Enter transaction type: 007
Thank you for using the Zerwan Clinic's online system. See You!
```