Contents

CHAPTER ONE

INTRODUCTION

Introduction

Hospital management systems are systems that control, store and manage databases of information in the hospital.

Python is a dynamic, interpreted (byte code-compiled) language. There are no type declarations of variables, parameters, functions, or methods in source code.

Brief history

So many years ago, data storage and management was on old fashioned archives.

Old-fashioned archives take a lot of time and paper work.

Using the Python language will make finding the hospital information easier.

Objectives

The objective of this project is to design a system that saves time on drug discovery and details such as drug name, type of medicine used, and so on.

Description

This Language used is python & Notepad++ to create a database of hospital management system.

CHAPTER TWO

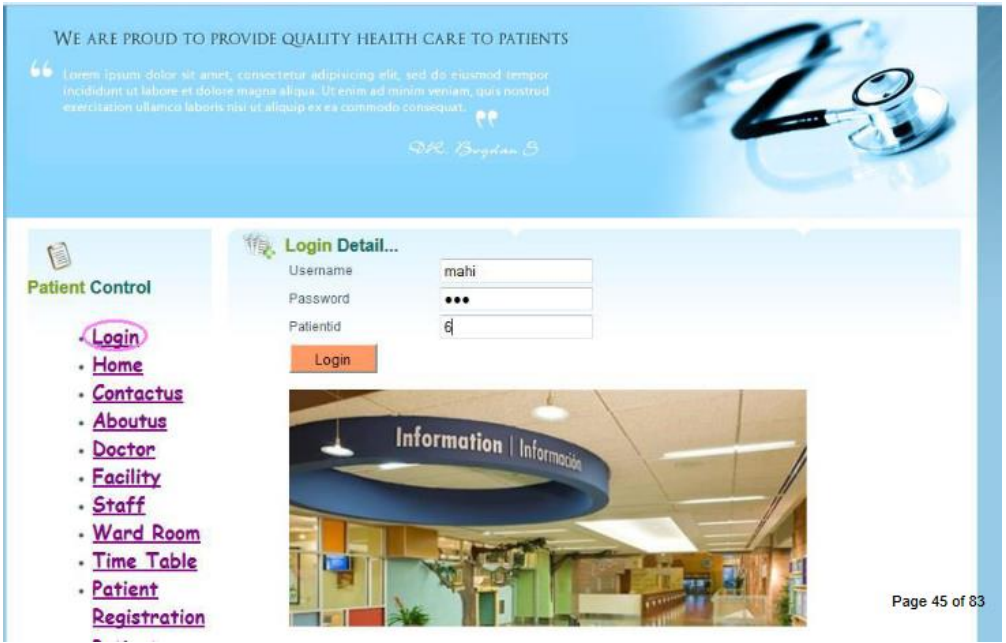
REVIEW OF RELATED LITERATURE

REVIEW OF RELATED LITERATURE

In this chapter, I will talk about the literature review of hospital management system. I will also provide quotations on some related literatures including the authors and other details. In this chapter I will also explain previous written theories about this project.

2.1 Website for hospital information system.

Patel Mona S., Patel Sweety R. Created a hospital information system project that



uses Microsoft Visual studio and MySQL server to manage databases of a hospital, 27-07-2015

Figure 2.1: Website for hospital information system

2.2 Design and Implementation of Hospital Management System

Adebisi O.A, Oladosu D.A The system solved the problems associated with the existing manual system. Security is also enhanced since access to the system

requires authentication. 1, July 2015

Figure 2.2: Design and Implementation of Hospital Management System

2.3 A PROPOSAL ON HOSPITAL MANAGEMENT SYSTEM

Paras Kumar Bishwakarma , Manish Upreti, Raju Kumar Yadav, Shreedhar Acharya This application contains login form, patient registration, doctor registration. Hospital Management application allow patients to edit their information like patient

name, contact number, address, disease from which he is suffering from etc. 17th June 2014

Figure 2.3: A PROPOSAL ON HOSPITAL MANAGEMENT SYSTEM

2.4 AUTOMATED HOSPITAL MANAGEMENT SYSTEM

OGBOBE NKECHI AGNES It is a software-based application to deliver operational speed and service efficiency in any target hospital. The project Automated Hospital Management System is very accurate in its approach and suits all environments including large, medium or small scale hospitals. MAY 2011

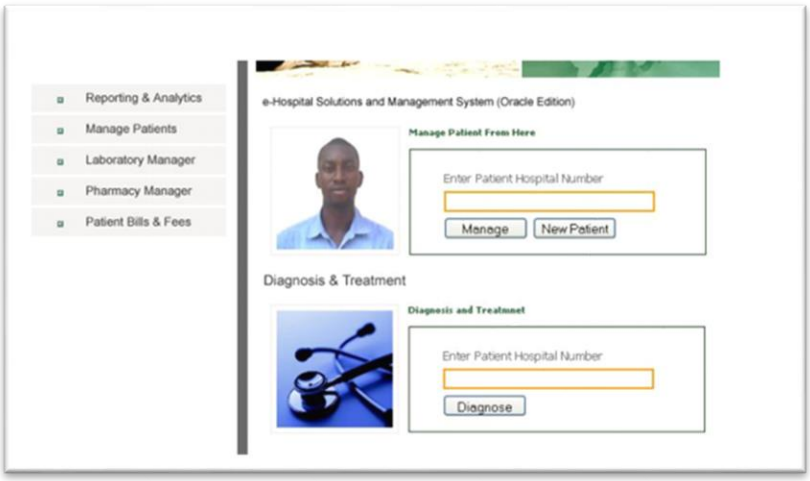


Figure 2.4: AUTOMATED HOSPITAL MANAGEMENT SYSTEM

REVIEW OF RELATED LITERATURE SUMMARY

Record quality medical records. Can be used as a complete medical proof. And can communicate the care information to the healthcare team for patient care planning. Therefore, the quality of medical records. It is therefore part of the medical records quality control system. It is a system for monitoring and analyzing qualitative medical records**.**

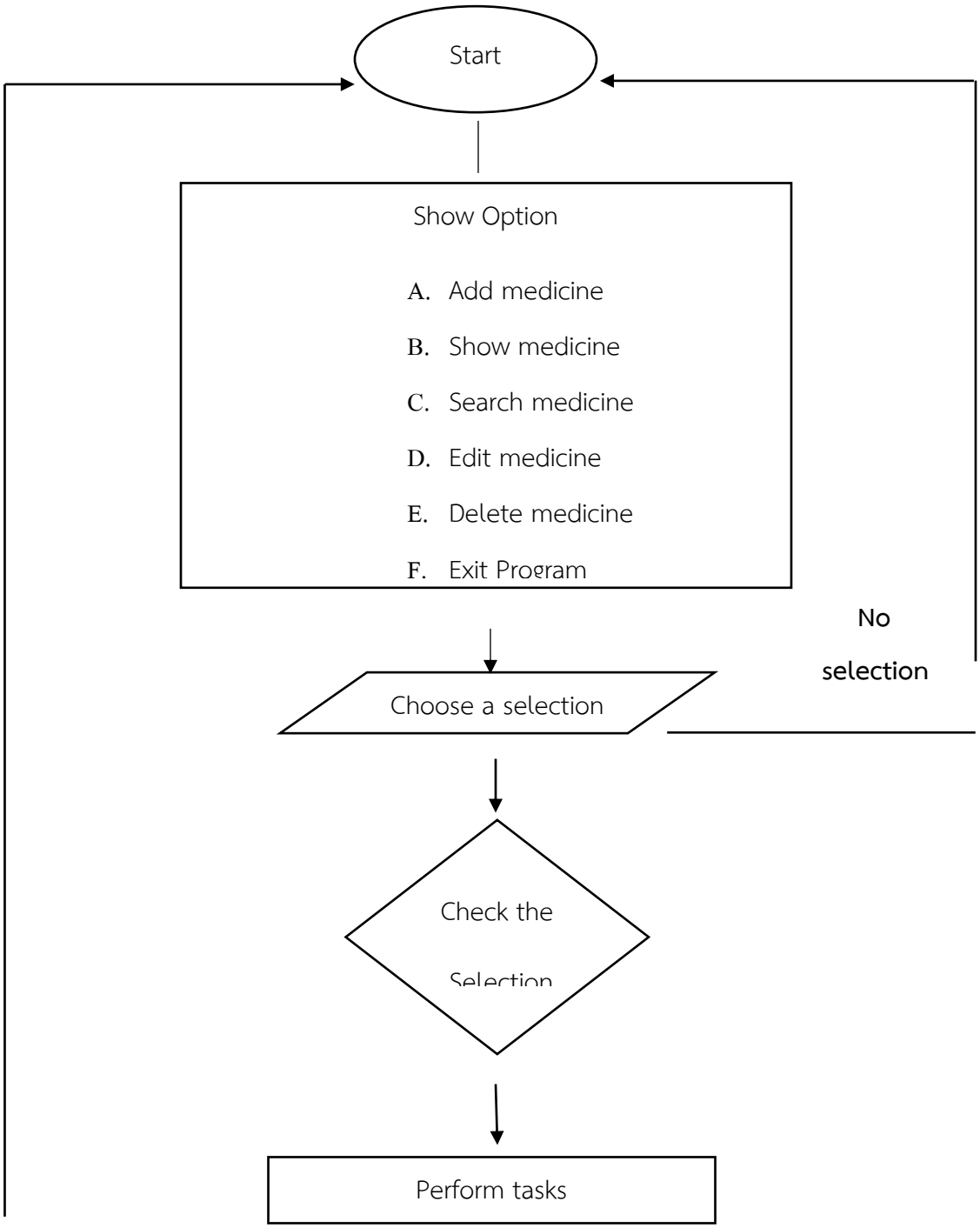
CHAPTER THREE

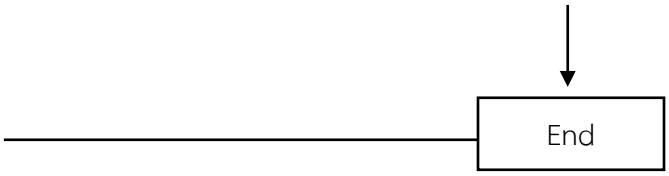
METHODOLOGY

3.1 Flowchart Bank Database Management System

A flowchart is a type of diagram that represents an algorithm, workflow or process. The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. This diagrammatic representation illustrates a solution model to a given problem. Flowcharts are used in analyzing, designing, documenting or managing a process or program in various fields.

This is flow chart showing the flow of our Hospital management system it includes all the steps which the program goes through while interacting with a user. The program created will allow the user to input data about medicine, view the input medicine data, be able to add more medicine data as well as edit, delete and search through medicine. The whole program will be created with python programming language code Witten in Notepad ++ and displayed through CMD (command prompt)


Start
Show Option
A. Add medicine
B. Show medicine
C. Search medicine
D. Edit medicine
E. Delete medicine
F. Exit Program
No selection
Choose a selection
Check the Selection
Perform tasks



These are the steps.

Step 1: Start Program

Open the program on the homepage will come out “Welcome to simple database program with python language” and choose an options.

Step 2: Choose an option

Choose an option you can choose different options from A-G

Step 3: Perform task

a. Add: Function add you can Add id, name, type, size, usage, cure and choose m or t continue.

b. Show: Show information added to the add function.

c. Search: Finds the information we generate in the add function.

d. Edit: Edit data created in Add.

e. Delete: Delete data from created if not needed.

f. Exit: Back to menu

Step 4: End program

Close program.

3.2 SOFTWARE USED TO CREATE THE PROJECT

In this project the following software were used to create the project.

3.2.1 Notepad++

Notepad++ software was used as a platform to write python code, the python environment was activated on the Notepad++ using (-I "$(FULL_CURRENT_PATH)") code

3.2.2 CMD command prompt

Cmd is a command that launches the Windows Command interpreter. It can run programs through text mode.

Usually, when we use Windows, it is usually used in graphical mode (GUI) mode. This GUI system allows us to do everything. To run a program Copy files or delete files. Via windows mode But the operating system has a mode called? Command Prompt? Or maybe it's called? Dos Prompt? This is a working mode in the text environment, which means that when to use any command. You have to type the command itself. This will be seen in many programs. And even some big programs. Can be run or configured when in Command Prompt mode.

3.3 PROGRAMMING LANGUAGES USED TO CRATE THE HOSPITAL MANAGEMENT SYSTEM PROJECT

In the project the following programming languages were used.

3.3.1 Python

Python is the language used to write a programming language. It was developed without being attached to the platform. The Python language is OpenSource like PHP, so everyone can use Python to develop our program. It's free and free of charge and is an open source, allowing people to help develop Python more advanced. And use it with all the job.

3.4 Description of the Python code.

```
1  import os                                                    Import os library
2  import sqlite3                                               Import sqlite3 library
3  from prettytable import PrettyTable                          Import pretty table
4  from sys import exit                                         Import exit
5
6  def all():  /// all function
7      os.system('cls')
8      def main():
9          print("\n ========================================== Welcome to Simple database program with python Language========
10         print("\t\t\t\t\t\t\t  HOSPITAL MANAGEMENT SYSTEM ")
11         print("\t\t\t\t\t\t\tThis project was developed by ")
12         print("\t\t\t\t\t\t\t1.Miss Gaewarin Thiantham (Bee) ")
13         print("\t\t\t\t\t\t\t2.Miss Soraya   Yongthuam (Jane) ")
14         print("\t\t\t\t\t\t\tSubject : Computer Programming ")
15         print("\t\t\t\t\t\t\t\t Adviser : Aj.Tengmo ")
16         print(" \n=========================================================================================================
17     main()
18
19     def hospitals():
20         os.system('cls')
21         hospital()
22
23     def hospital():
24         print("\n Choose an option \n\t\t\t\t\t\t\t\t\t\t\t\t    A.Add \n\t\t\t\t\t\t\t\t    B.Show medicine \n\t\t\t\t\t\t\t\t    C.Search
25         print(" \n========== ========================================================================================
26
27     hospital()
28
29
30     def Add ():
31         os.system('cls')
32         connection=sqlite3.connect("C:/Hospital/Bee.db")
33
34         c=connection.cursor()
```

/// function hospital

/// Clear screen

/// function hospital for show data.

/// Show choose an option in project

/// function for adding data

/// Clear screen

/// Create

/// Open or create database

Show project title ”Industries in Thailand project” , members of the group , the subject and adviser

/// show “Add data” Using the print() statement

/// Input data “id, name, type, size, usage, cure”

/// show data “id, name, type, size, usage, cure” Using the print() statement

/// Insert into data the table ““id, name, type, size, usage, cure””

/// save database

/// close database

```
63
64          os.system('cls')                    /// Clear screen
65          continues=input("choose M or N \n M. Continue adding \n N. Back to menu \n")
66                                                                  /// input the choose M or N
67          if continues=="M" or continues=="m":
68              print("you selected to continue adding\n")
69              Addmore()                       /// The choose M  is adding data.
70
71          if continues=="N" or continues=="n":
72              print("you selected to go back to the main menu\n")   /// The choose N  is back to the menu.
73              all()
74
75
76      def Show_medicin():                     /// Function for show data
77          os.system('cls')                    /// Clear screen
78          print("this is also show data")     /// Show “This is also show data” Using the ()statemant
79
80          connection=sqlite3.connect("C:/Hospital/Bee.db",timeout=10)
                                                                    /// Open program file.
81
82          c=connection.cursor()
83          c.execute("select*from Hospitals")  /// Open or create database.
84          rows = c.fetchall()                 /// Open from industries.
85
86          row_count=len(rows)
87          m = PrettyTable(['idmedicine','namemedicine','typemedicine','size','usage','cure'])
88          i=0
89          while i<row_count:                                      /// Show table.
90              m.add_row([rows[i][0],rows[i][1],rows[i][2],rows[i][3],rows[i][4],rows[i][5]])
91              i=i+1
92          print(m)
93
94          row_count=len(rows)
95
96
97          continues=input("choose T or S \n T.Exit program \n S.Back to menu \n")
                                                                    /// input the choose T or S
98
99          if continues=="T" or continues=="t":
100             print("you selected to exit program\n")   /// The choose T  is exit program.
101             Exit_medicin()
102
103         if continues=="S" or continues=="s":
104             print("you selected to go back to the main menu\n")
105             all()                           /// The choose S  is back to the menu.
106
107     def Search_medicin():                   /// Function for search data
108         os.system('cls')                    /// Clear screen
109         print("this is also search data")
110
111         connection=sqlite3.connect("C:/Hospital/Bee.db",timeout=10)
112         c=connection.cursor()               /// Open program file.
113                                             /// Open or create database.
114
115         searchidmedicine = str(input('Please enter name to be searched: '))
116                                                                 /// Input  name for search.
117         c.execute('select*from Hospitals where idmedicine=?',(searchidmedicine,))
118         rows = c.fetchall()                 /// Open from industries .
119
120         row_count=len(rows)
121         print(row_count)
122
123         if row_count<1:
124             print("Search doesnt exist\n")
```

```
125
126         else:
127             m = PrettyTable(['idmedicine','namemedicine','typemedicine','size','usage','cure'])
128             m.add_row([rows[0][0],rows[0][1],rows[0][2] ,rows[0][3] ,rows[0][4] ,rows[0][5]])
129             print(m)
130                                                                                    /// Show table database .
131             for row in rows:
132                 print(row)
133
134         continues=input("choose T or S \n T.Exit program \n S.Back to menu \n")
135
136         if continues=="T" or continues=="t":                          /// input the choose T or S
137             print("you selected to exit program\n")
138             Exit_medicin()                                  /// The choose T  is exit program.
139
140         if continues=="S" or continues=="s":
141             print("you selected to go back to the main menu\n")
142             all()                                                /// The choose S  is back to the menu
143
144     def Edit_medicin():
145         os.system('cls')
146         print("this is also edit data")          /// Function for edit data
147                                                  /// Clear screen
148         connection=sqlite3.connect("C:/Hospital/Bee.db",timeout=10)
149         c=connection.cursor()                                /// Open program file.
150         Editnamemedicine = str(input('Please enter name to be Edited: '))
151                                                  /// Open or create database.
152         print("Enter new name\n")                                /// Input  name for edit.
153
154         nameDataE = str(input('Please enter the name: '))  /// Show "Enter new name" using the print() statement.
155
156                                                          /// Input  name for update.
157         c.execute('UPDATE Hospitals  SET namemedicine=? where namemedicine=?',(nameDataE,Editnamemedicine,))
158
159         connection.commit()                                                    /// Show name update.
160         connection.close()
161                                 /// Save database.
162                                 /// Close database.
163         continues=input("choose T or S \n T.Exit program \n S.Back to menu \n")
164
165         if continues=="T" or continues=="t":                          /// input the choose T or S
166             print("you selected to exit program\n")
167             Exit_medicin()
168                                                          /// The choose T  is exit program.
169         if continues=="S" or continues=="s":
170             print("you selected to go back to the main menu\n")
171             all()                                            /// The choose S  is back to the menu
172     def Delete_medicin():
173         os.system('cls')
174         print("this is also delete data")          /// Function for delete data
175                                                    /// Clear screen
176         connection=sqlite3.connect("C:/Hospital/Bee.db",timeout=10)
177
178         c=connection.cursor()                                /// Open or create database.
179         delidmedicine = str(input('Please enter name to delete: '))
180         Hospitals = c.execute('DELETE FROM Hospitals WHERE idmedicine=?', (delidmedicine,))
181                                                  /// Open or create database.  /// Input  name for delete.
182         connection.commit()                                                    /// Delete  data from industries.
183         connection.close()
184                                 /// Save database.
                                    /// Close database.
```

```
185         continues=input("choose T or S \n T.Exit program \n S.Back to menu \n")      /// input the choose T or S
186
187         if continues=="T" or continues=="t":          /// The choose T  is exit program.
188             print("you selected to exit program\n")
189             Exit_medicin()
190
191         if continues=="S" or continues=="s":
192             print("you selected to go back to the main menu\n")      /// The choose S  is back to the menu
193             all()
194
195     def Exit_medicin():  /// Function for exit program
196         os.system('cls') /// Clear screen
197         print("this is also exit")    /// show “this is also exit data” using the print(() statement
198     def Addmore ():  /// Function for addmore data
199         os.system('cls')  /// Clear screen
200         print("this is also add more data") /// Show “This is also add more data” Using the print() statemant
201
202         connection=sqlite3.connect("C:/Hospital/Bee.db",timeout=10)     /// Open program file.
203
204         c=connection.cursor()    /// Open or create database
205
206         idmedicine = str(input('Please enter the idmedicine: '))
207         namemedicine = str(input('Please enter the namemedicine: '))
208         typemedicine = str(input('Please enter the typemedicine: '))          /// Input data “id, name, type, size, usage, cure”
209         size = str(input('Please enter the size: '))
210         usage = str(input('Please enter the usage: '))
211         cure = str(input('Please enter the cure: '))
212                                                                  /// show data “id, name, type, size, usage, cure” Using the print() statement
213         print("Id:"+idmedicine,"| Name:"+namemedicine,"| Type:"+typemedicine,"|Sizs:"+size,"|Usage:"+usage,"|Cure:"+cure)
214
215         c.execute(''' INSERT INTO Hospitals(idmedicine,namemedicine,typemedicine,size,usage,cure)
216                       VALUES(?,?,?,?,?,?) ''',                                  /// Insert into data the table ““id, name, type, size, usage, cure””
217                       (idmedicine,namemedicine,typemedicine,size,usage,cure))
218
219         connection.commit()     /// Save database.
220         connection.close()      /// Close database.
221
222         continues=input("choose T or S \n T.Exit program \n S.Back to menu \n")          /// input the choose T or S
223
224         if continues=="T" or continues=="t":
225             print("you selected to exit program\n")          /// The choose T  is exit program.
226             Exit_medicin()
227
228         if continues=="S" or continues=="s":
229             print("you selected to go back to the main menu\n")
230             all()                                                          /// The choose S  is back to the menu
231
232     def choices():
233         choice=input("Please make a selection\n")  /// Function for choices data
234
235         if choice == "A" or choice== "a":                  /// input choices
236             print ("you selection Add medicine\n")
237             Add()                                    /// input “A” or “a”  and show “you selected Add” using the print() statement
238
239         if choice == "B" or choice== "b":
240             print ("you selection Show medicine\n")
241             Show_medicin()
242                                                      /// input “B” or “b”  and show “you selected Show” using the print() statement
243         if choice == "C" or choice== "c":
244             print ("you selection Search medicine\n")
245             Search_medicin()
246
247         if choice == "D" or choice== "d":              /// input “C” or “c”  and show “you selected Search” using the print() statement
248             print ("you selection Edit medicine\n")
249             Edit_medicin()
```

/// input “D” or “d” and show “you selected Edit” using the print() statement

```
250
251         if choice == "E" or choice== "e":                    /// input “E” or “e”  and show “you selected Delete” using the print() statement
252             print ("you selection Delete medicine\n")
253             Delete_medicin()
254
255         if choice == "F" or choice== "f":                    /// input “F” or “f”  and show “you selected Exit” using the print() statement
256             print ("you selection Exit medicine\n")
257             Exit_medicin()
258
259         if choice == "G" or choice== "g":                      /// input “G” or “g”  and show “you selected Addmore” using the print() statement
260             print ("you selection Addmore\n")
261             Addmore()
262                                                  /// show “choose again” using the print() statement
263
264         if choice != "A" and choice!= "a" and choice != "B" and choice!= "b" and choice != "C" and choice!= "c" and choice != "D" and
265             print ("choice again\n")
266             choices()                            /// close function choices
267
268     choices()                                /// close function all
269 all()
270
```

CHAPTER FOUR

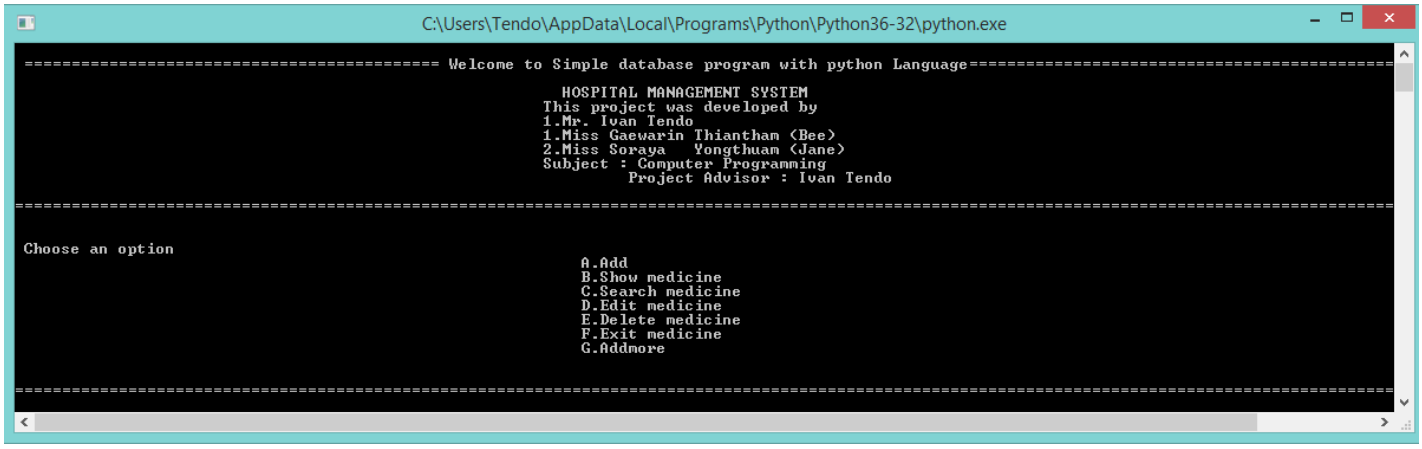
RESULTS AND DISCUSSION

4.1 Project performance.

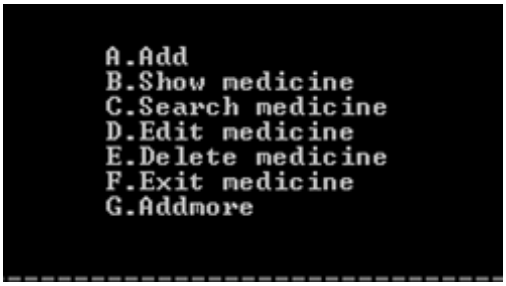
Hospital Record System Project The purpose is to design and build programs. Hospital record system for project developers to use for their own learning more. The results are as follows.

4.2 Results

Main Menu: This page shows information form authors and consultants. There are seven



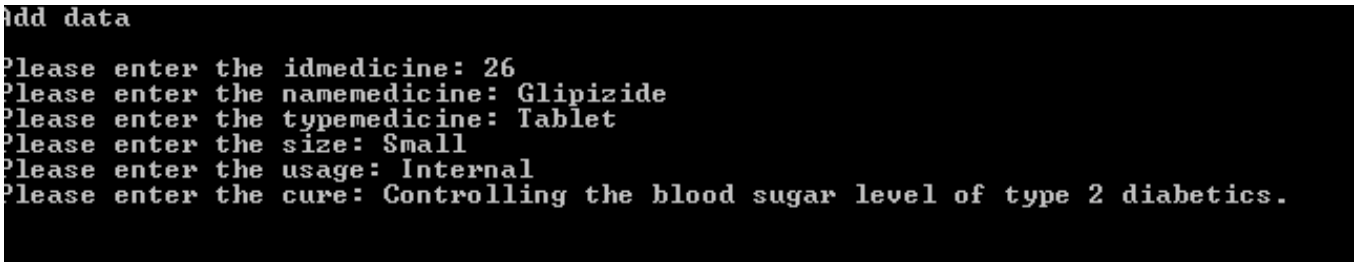
Options on this page: Add data, Shoe data, Search data, Edit data, Delete data and Exit data.



4.2.1 Main menu

Points that link important data. Compiled in the form of a menu button. Or messages that new content throughout.

4.2.2 Add



Add medication information to the database.

this is also show data

idmedicine	namemedicine	typemedicine	size	usage	cure
1	Acetazolamide	Tablet , injection	Small	Internal	Glaucoma, epilepsy, diuretic, prevention and reduction of symptoms caus
2	Acitretinsm	Tablet	Small	Internal	Skin disease
3	Adenosine	Injection	Small	Internal	Treatment of certain cardiac disorders.
4	Atenolol	Tablet , injection	Small	Internal	Cardiovascular system treatment
5	Benzodiazepines	Capsule , Tablet , injection	Small	Internal	A sleeping pill
6	Betahistine	Tablet	Small	Internal	Treatment and prevention of dizziness from water in the ear is r
7	Budesonide	Tablet , Capsule	Small	External , Internal	Asthma treatment
8	Carbocysteine	Water drug , Capsule	Small	Internal	Relieve cough with chronic sputum.
9	Cefixime	Tablet	Small	Internal	Treatment of diseases caused by bacteria.
10	Carvedilol	Tablet	Small	Internal	Treating heart failure and lowering blood pressure.
11	Captopril	Tablet	Small	Internal	Treatment of high blood pressure and heart failure.
12	Chlorhexidine	Mouthwash	Small	External	Treatment of oral and throat infections.
13	Clotrimazole	Lozenge	Small	External , Internal	Treatment of fungal infections.
14	Dexamethasone	Capsule	Small	Internal	Anti-inflammatory
15	Diclofenac	Cream	Small	Internal , External	Relieve pain and swelling.
16	Digoxin	Water drug	Small	Internal	Treat heart failure
17	Diphenhydramine	Water drug	Small	Internal	Relieve allergies.
18	Donepezil	Capsule	Small	Internal	Treatment of mild to moderate dementia in Alzheimer's patie
19	Relieve allergies.	Injection	Small	Internal	Toxic heavy metal poisoning Treatment of brain disorders from lea
20	Efavirenz	Tablet , Capsule	Small	Internal	Treatment of HIV infection
21	Enalapril	Water drug	Small	Internal	Treatment of high blood pressure and heart failure.
22	Ethambutol	Tablet	Small	Internal	Tuberculosis treatment for pulmonary tuberculosis
23	Ezetimibe	Tablet	Small	Internal	Treatment of high blood lipids.
24	Famotidine	Tablet , injection	Small	Internal	Treat stomach ulcers
25	Flunarizine	Capsule	Small	Internal	Treatment and prevention of migraine headaches.

choose T or S
T.Exit program
S.Back to menu

4.2.3 Show

Show all data in table format.

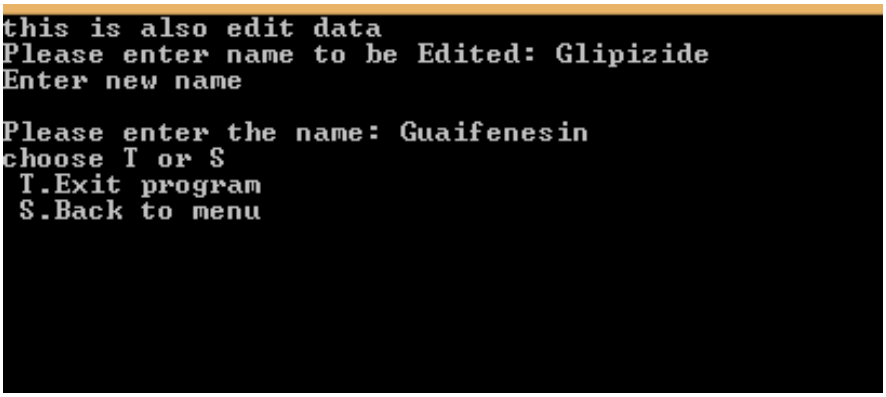
4.2.4 Search

this is also search data
Please enter name to be searched: 20
1

idmedicine	namemedicine	typemedicine	size	usage	cure
20	Efavirenz	Tablet , Capsule	Small	Internal	Treatment of HIV infection

(20, 'Efavirenz', 'Tablet , Capsule', 'Small', 'Internal', 'Treatment of HIV infection')
choose T or S
T.Exit program
S.Back to menu

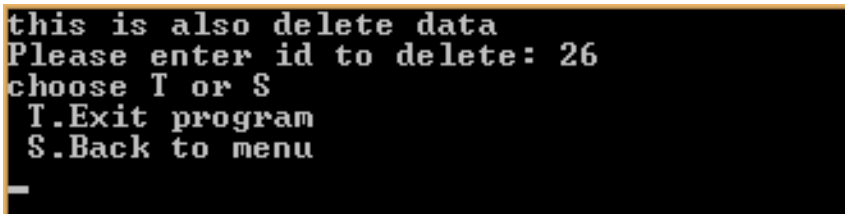
Find the information you want to see.



4.2.5 Edit

Used to modify the data in the database.

4.2.6 Delete



Used to delete unwanted data in the database.

4.2.7 Exit

Work is finished.

CHAPTER FIVE

SUMMARY

Record quality medical records. Can be used as a complete medical proof. And can communicate the care information to the healthcare team for patient care planning. Therefore, the quality of medical records. It is therefore part of the medical records quality control system. It is a system for monitoring and analyzing qualitative medical records.

Python languages can store large amounts of data. It is also easy to find information. And can be used to develop simple, not complicated.