

About project and Software used

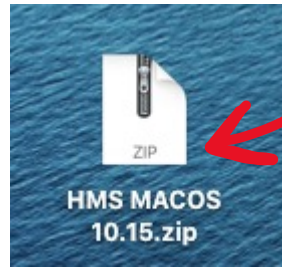
1. This is a basic level hospital management program. It is developed using GUI short for Graphical User Interface. In our program we have used standard Python interface i.e. Tkinter. All the data is stored in MySql DBMS in database named hospital.
2. It can be accessed by either management workers or receptionist or doctors (each doctor have different access i.e. they have unique username and password)
3. The following program involve three individuals in related steps:
 - (i) Installation of the database hospital and creates tables.
 - (ii) Using the program to store or extract information to / from the database created above.
 - (iii) Uninstalling program; this will erase all the data from your DBMS.

4. Our program do maintain few loopholes and there are scope of improvements but we as a team have tried our best to avoid and fix any possible error.

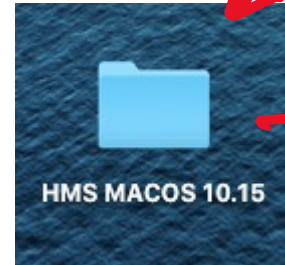
5. This program can be very effective at basic level:

- (i) **Safe:** person who does not have access to MySql or the username or password cannot login.
- (ii) **Easy to understand:** Python and MySql is used which are easy to read and interpret.
- (iii) **Minimizing user's work:** you don't have to create database every time and it will show information boxes(i.e. messagebox) whenever there is an error done by the user.

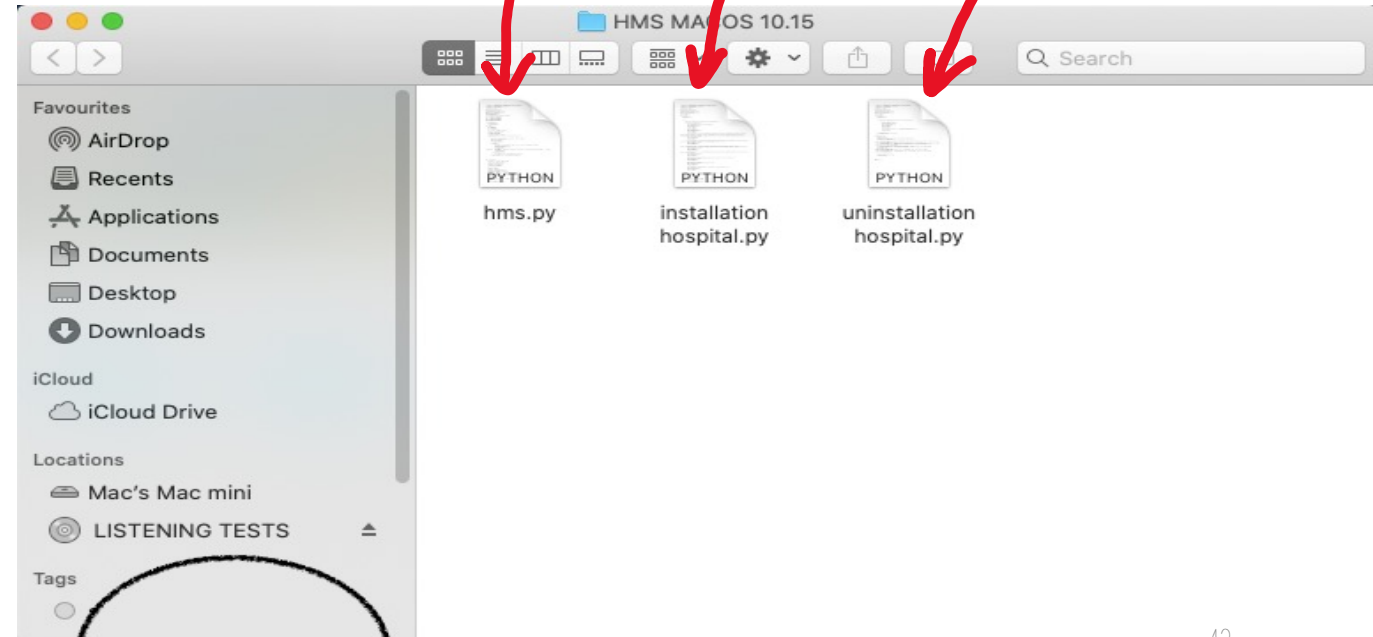
Installation Process



Click on the zip file to extract the 'HMS' folder.



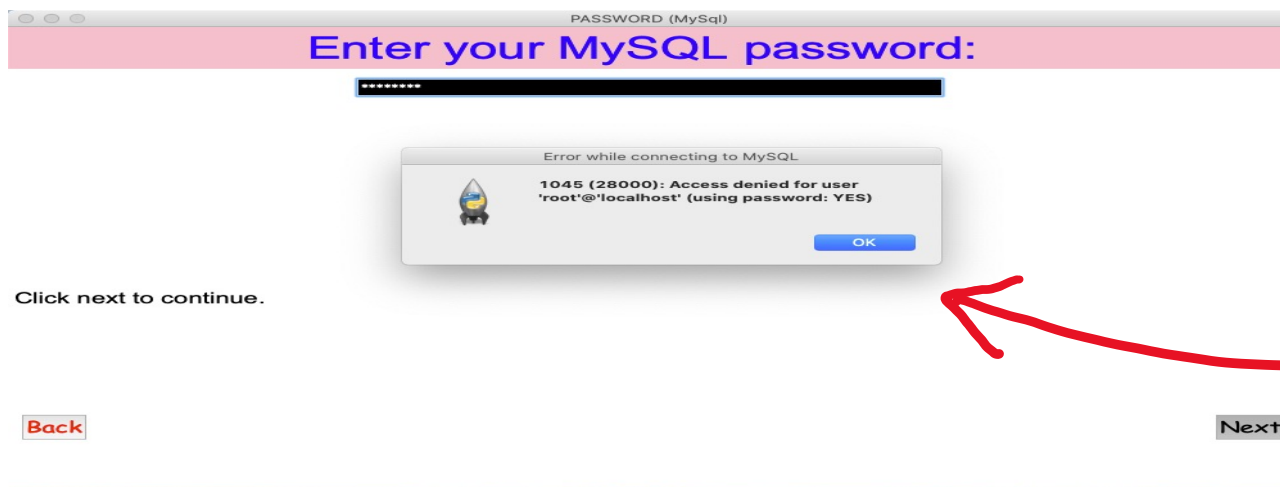
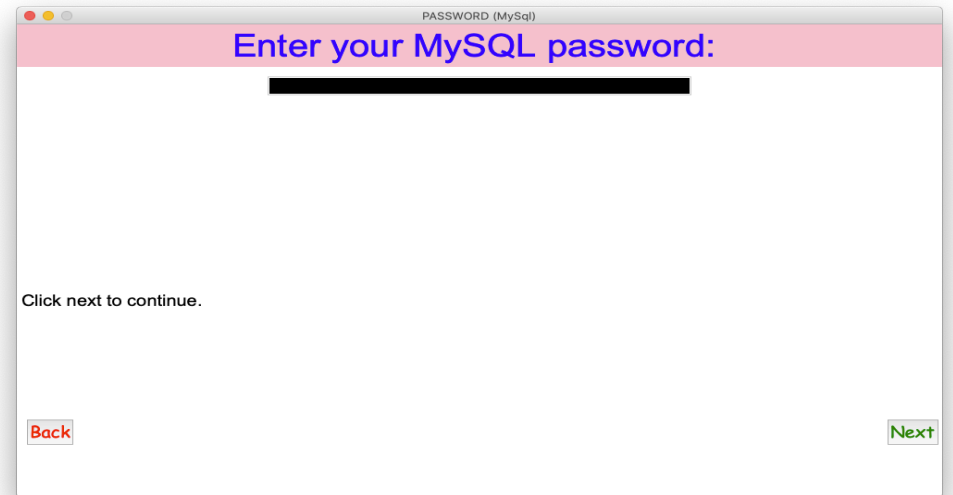
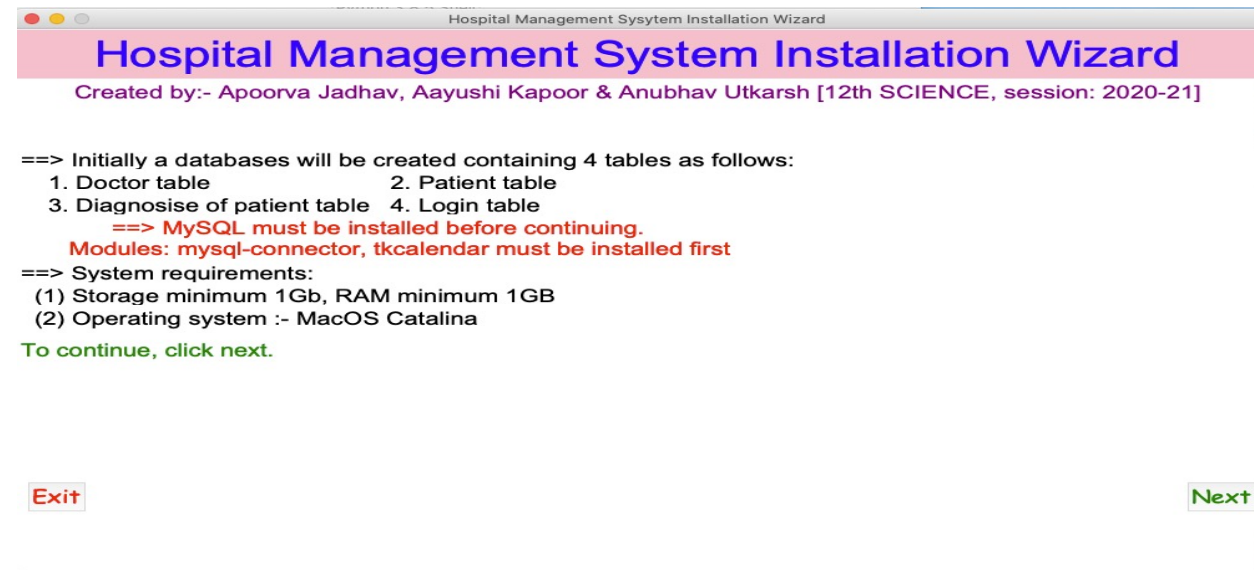
This folder contains the main program files(i.e. installation, uninstallation & HMS)



Installation Process

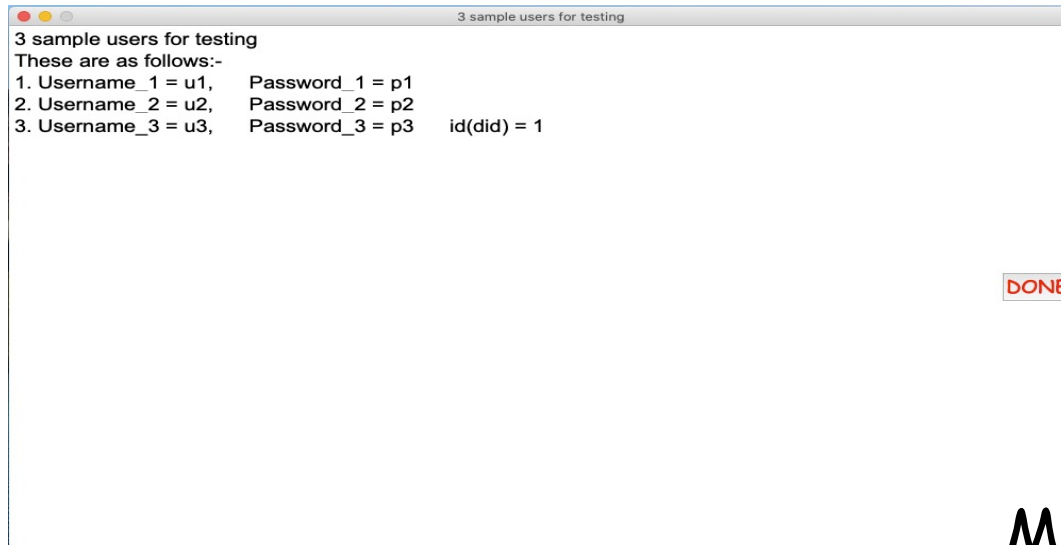
On clicking the installation file the installation program will run and a window will open specifying the information about the tables databases which will be created.

Clicking 'Next' will open another window Asking the user to enter his/her password.



If the user enters the wrong password a message box will appear showing 'Access Denied'.

After entering the correct password the user will be send to a new window displaying the content created by installing the program.



On clicking 'DONE' the window will close and the program will finally be installed.

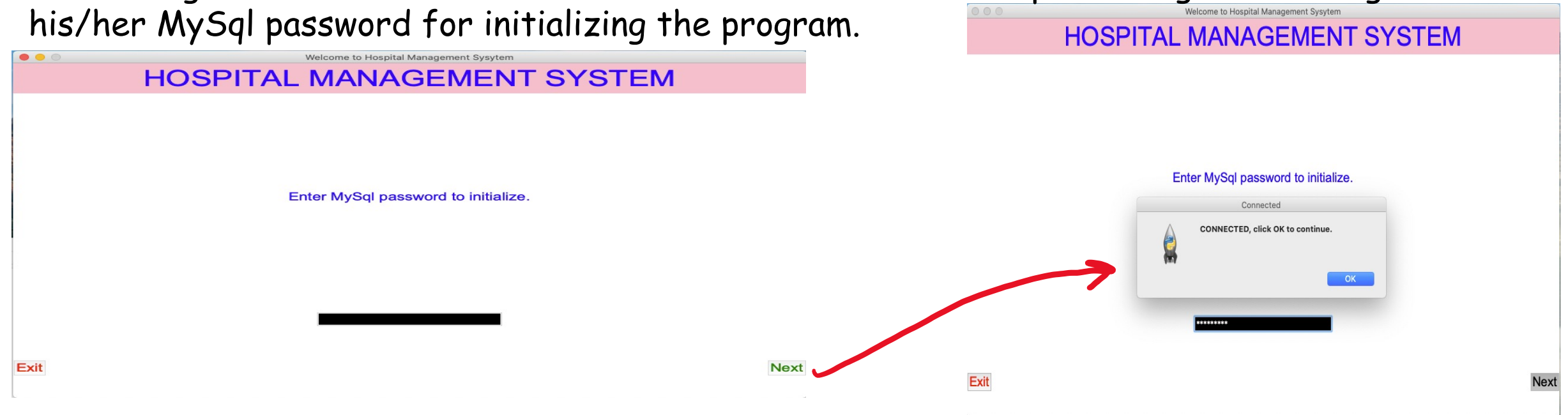
MySql Results

```
mysql> show tables;
+-----+
| Tables_in_hospital |
+-----+
| d_patient          |
| doctor             |
| login              |
| patient             |
+-----+
4 rows in set (0.00 sec)
```

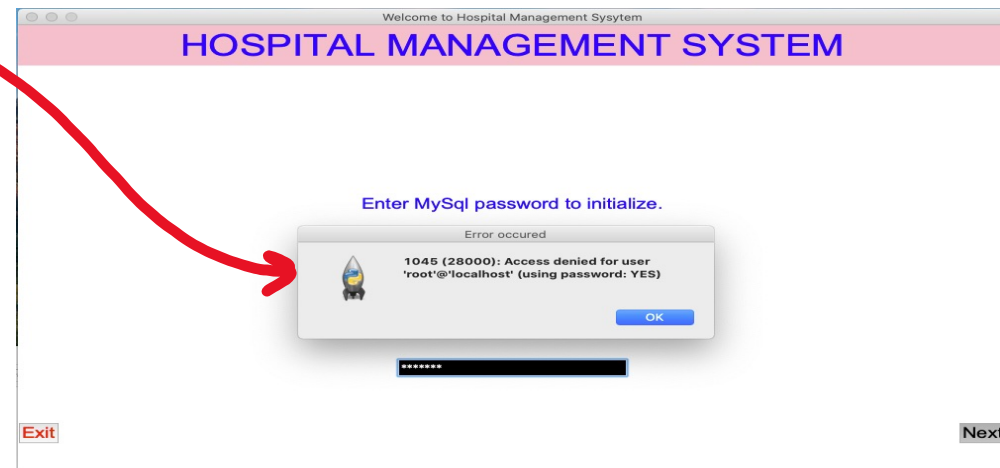
```
mysql> select * from login;
+-----+-----+-----+-----+
| username | password | role | id |
+-----+-----+-----+-----+
| u1       | p1       | 1    | NULL |
| u2       | p2       | 2    | NULL |
| u3       | p3       | 3    | 1    |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Hospital Management System (Main Program)

On clicking the 'HMS' file from the main folder a window will open asking the user again for his/her MySql password for initializing the program.



If user enters the wrong password.

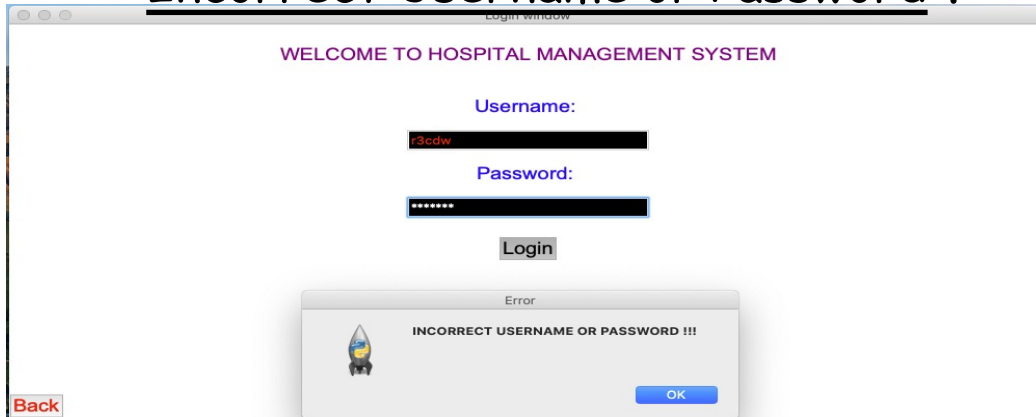


After correctly entering MySql password the user will be taken to a window displaying 'WELCOME TO HOSPITAL MANAGEMENT SYSTEM', where the user has to enter the username and password as per his chosen work among the 3 users (u1: login management, u2: Receptionist, u3: Doctor).



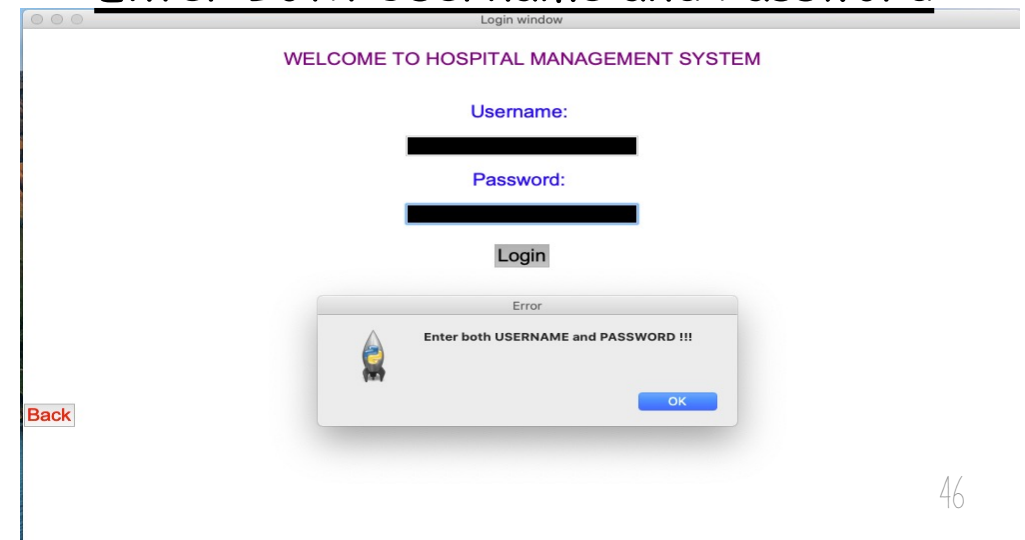
If wrong password entered, the message box will display:

'Incorrect Username or Password'.

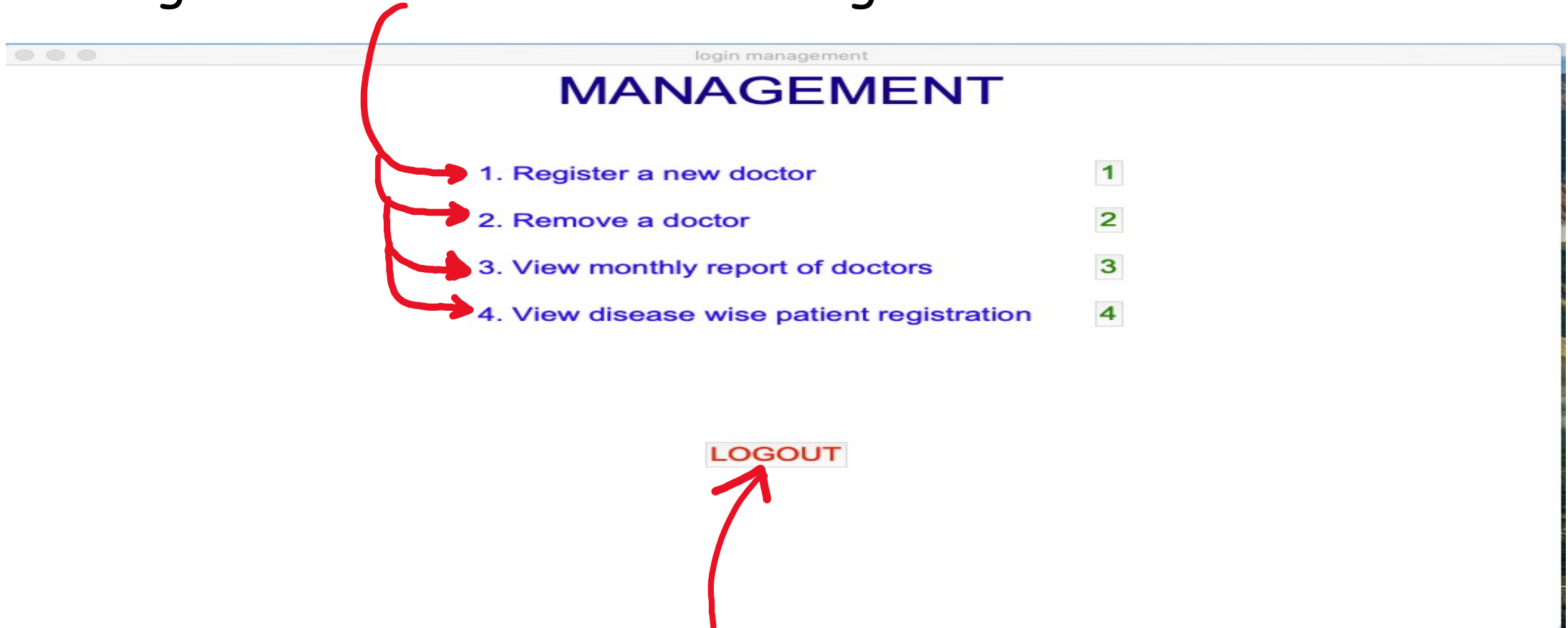


If no password or username has been entered by the user then message box will display:

'Enter Both Username and Password'



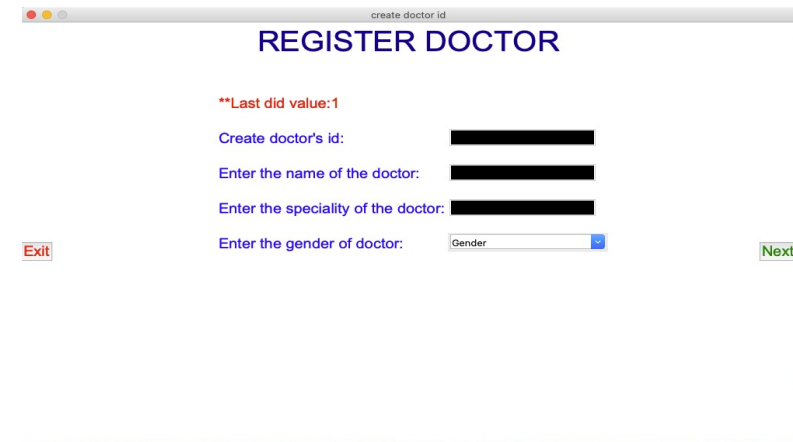
If the user logs in as u1(i.e. login management), a window will open showing the **functions** of the management



On clicking '**LOGOUT**' the program will take the user to the login page again.

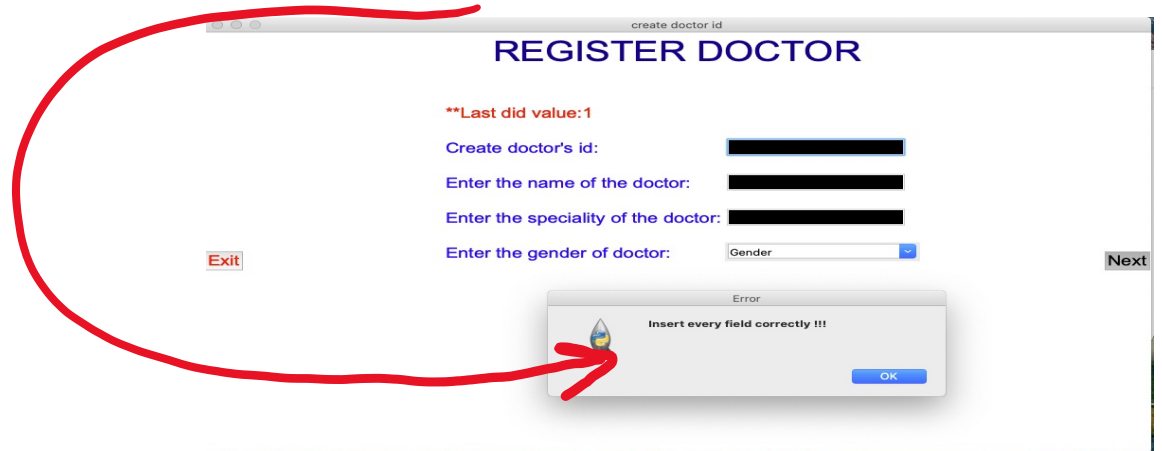
Management Work 1(Registration of a new doctor) -

For registering a new doctor the user will click '1' on the management window which will take the user to a window taking the information of the doctor as entries

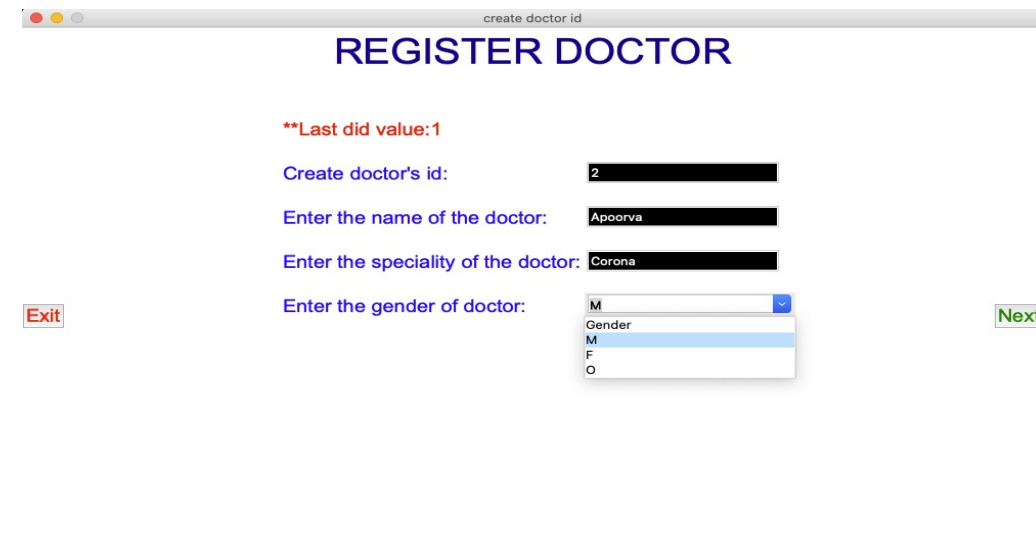


The screenshot shows a window titled 'create doctor id' with the subtitle 'REGISTER DOCTOR'. It contains four input fields: 'Create doctor's id:', 'Enter the name of the doctor:', 'Enter the specialty of the doctor:', and 'Enter the gender of doctor:'. The 'Gender' field is a dropdown menu with 'Gender' selected. There are 'Exit' and 'Next' buttons at the bottom.

If the leave all the entries and tries going further a message box will pop and show '**Enter every field correctly**'.



This screenshot shows the 'REGISTER DOCTOR' window with an error message box overlaid. The error box is titled 'Error' and contains the text 'Insert every field correctly !!!' with an 'OK' button. A red arrow points from the 'Next' button in the window to the error box.



The screenshot shows the 'REGISTER DOCTOR' window with the input fields filled: 'Create doctor's id:' is '2', 'Enter the name of the doctor:' is 'Apoorva', 'Enter the specialty of the doctor:' is 'Corona', and 'Enter the gender of doctor:' is 'M'. The 'Gender' dropdown menu is open, showing options 'M', 'F', and 'O'. There are 'Exit' and 'Next' buttons at the bottom.

If all the entries are filled correctly, clicking next will lead the user to a new window to create a doctor '**username**' and '**password**'.

create doctor userpass

MANAGEMENT

**** DO NOT CLOSE THE CURRENT WINDOW ****

Create username:

Create password:

Re-enter password:

Next

If the user enter an username which already exists, then the message box will display '**Username not available**'.

create doctor userpass

MANAGEMENT

**** DO NOT CLOSE THE CURRENT WINDOW ****

Create username:

Create password:

Re-enter password:

Next

error

Username not available !!!

OK

create doctor userpass

MANAGEMENT

**** DO NOT CLOSE THE CURRENT WINDOW ****

Create username:

Create password:

Re-enter password:

Next

error

Password doesn't match !!!

OK

If the user writes different password in the password confirmation entry then the box will show '**Password doesn't match**'.

create doctor userpass

MANAGEMENT

**** DO NOT CLOSE THE CURRENT WINDOW ****

Create username:

u1

Create password:

Re-enter password:

Next

error

Enter every field correctly !!!

OK

If the user leaves all/some entries then the message box will show 'Enter every field correctly'.

MySql Results

```
mysql> select * from doctor;
```

did	dname	speciality	gender
1	Test doctor	Test Speciality	0
2	Apoorva	Corona	M
3	Aayushi	Food poison	F
4	Anubhav	Cancer	M

4 rows in set (0.00 sec)

did	dname	speciality	gender
1	Test doctor	Test Speciality	0
2	Apoorva	Corona	M

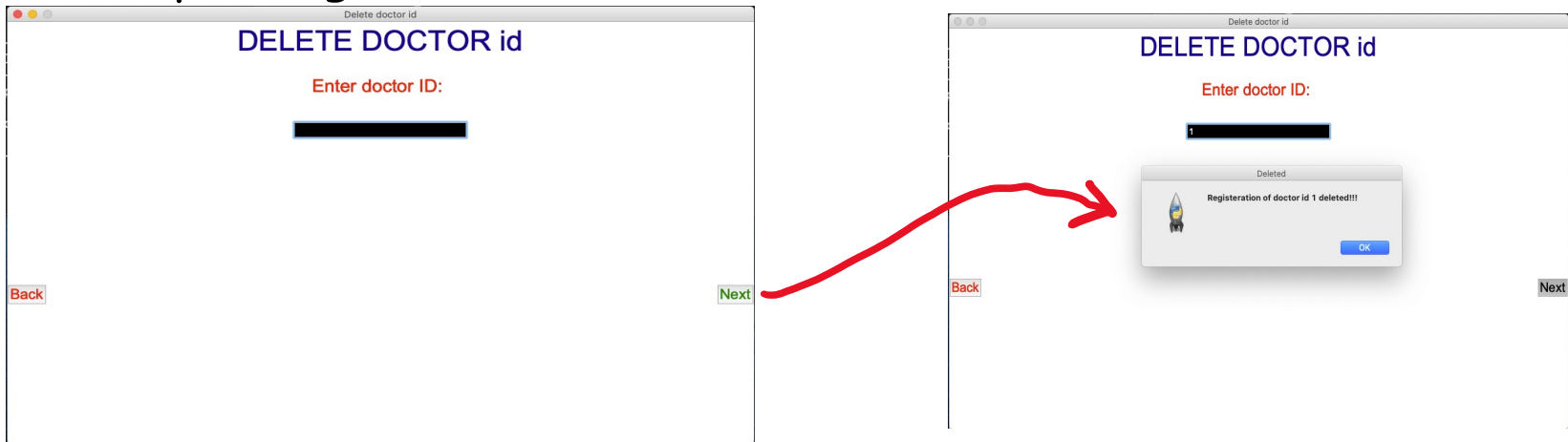
```
mysql> select * from login;
```

username	password	role	id
A J	asdf	3	2
A K	1234	3	3
A U	4321	3	4
u1	p1	1	NULL
u2	p2	2	NULL
u3	p3	3	1

6 rows in set (0.00 sec)

Management Work 2(Removal of a doctor) -

For removal of a new doctor the user will click '2' on the management window which will take the user to a window where the user has to enter the doctor id to delete the doctor name corresponding to the id from the table.



If the management enters the wrong id that do not exists then a message will appear showing 'ID does not exist'.

MySql Results

Before removal:

```
mysql> select * from login;
```

username	password	role	id
A J	asdf	3	2
A K	1234	3	3
A U	4321	3	4
u1	p1	1	NULL
u2	p2	2	NULL
u3	p3	3	1

6 rows in set (0.00 sec)

After removal:

```
mysql> select * from login;
```

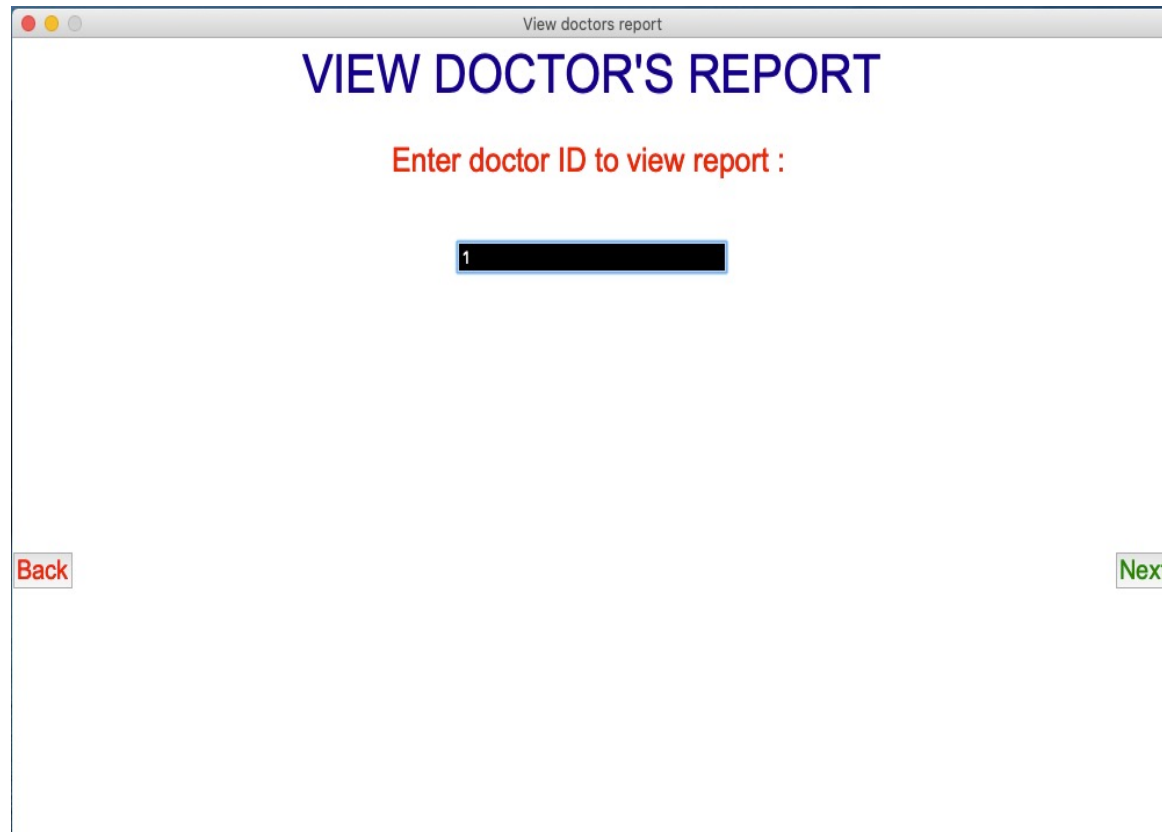
username	password	role	id
A J	asdf	3	2
A K	1234	3	3
A U	4321	3	4
u1	p1	1	NULL
u2	p2	2	NULL

5 rows in set (0.00 sec)



Management Work 3(Monthly report of doctor) -

For viewing the monthly report the user will click '3' on the management window which will take the user to a window where the user will enter the valid doctor ID to check the monthly report of the doctor.

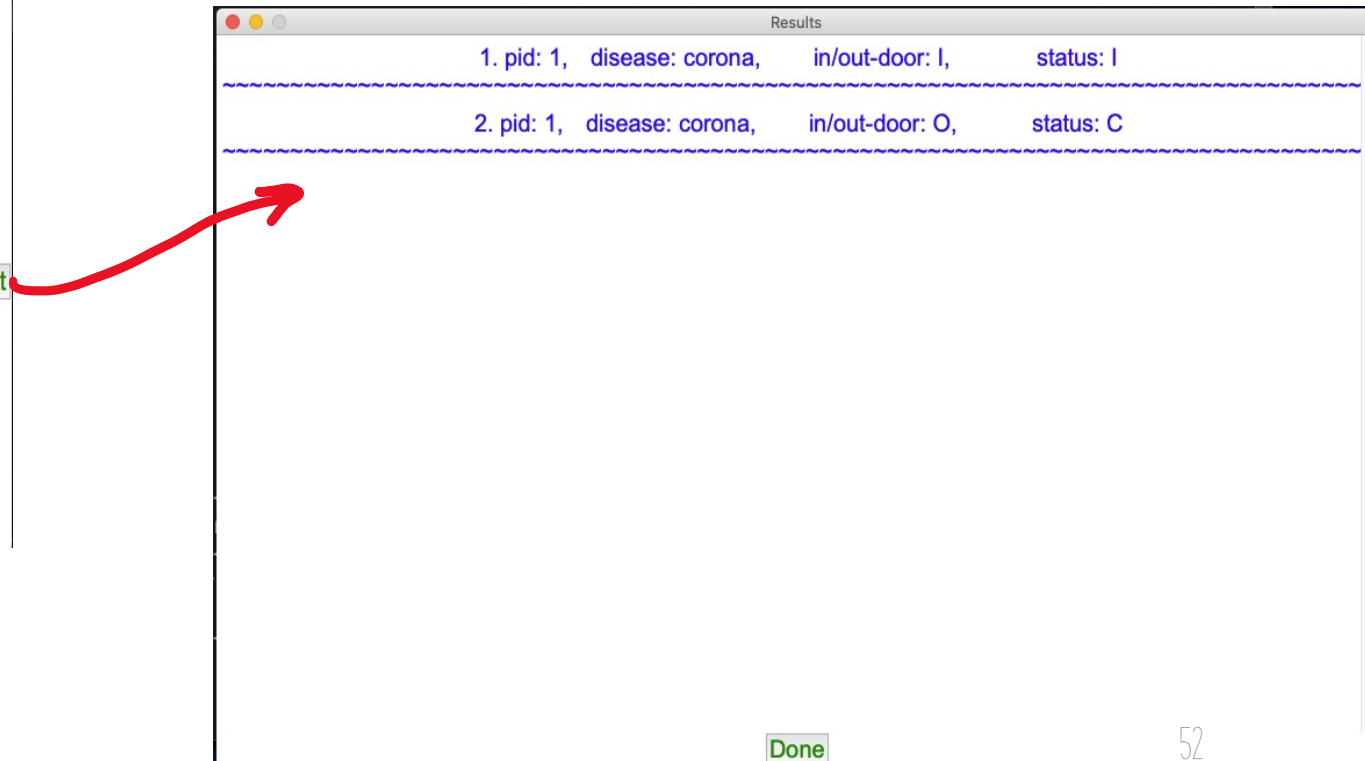


View doctors report

VIEW DOCTOR'S REPORT

Enter doctor ID to view report :

Back Next



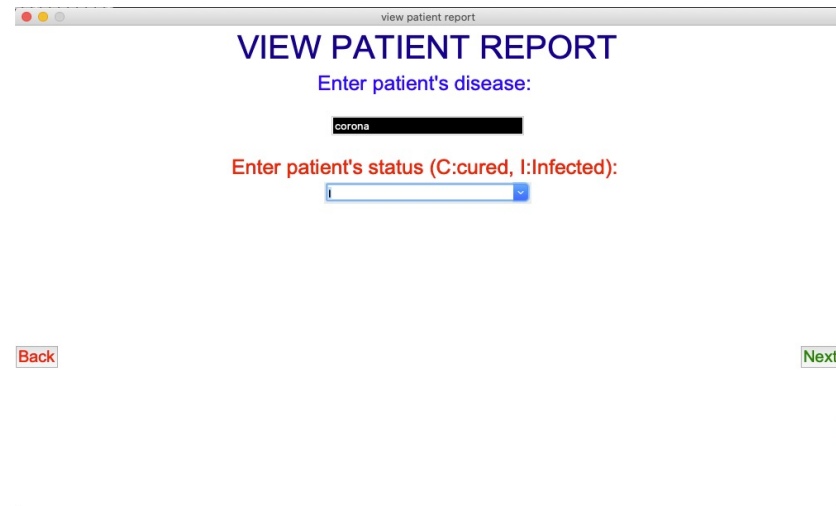
Results

1. pid: 1, disease: corona, in/out-door: I, status: I
2. pid: 1, disease: corona, in/out-door: O, status: C

Done

Management Work 4 (View disease wise patient registration) -

For viewing disease wise patient report, the user will clicks on '4' on Management window which takes the users to window where he/she will have to enter disease and its status.



view patient report

VIEW PATIENT REPORT

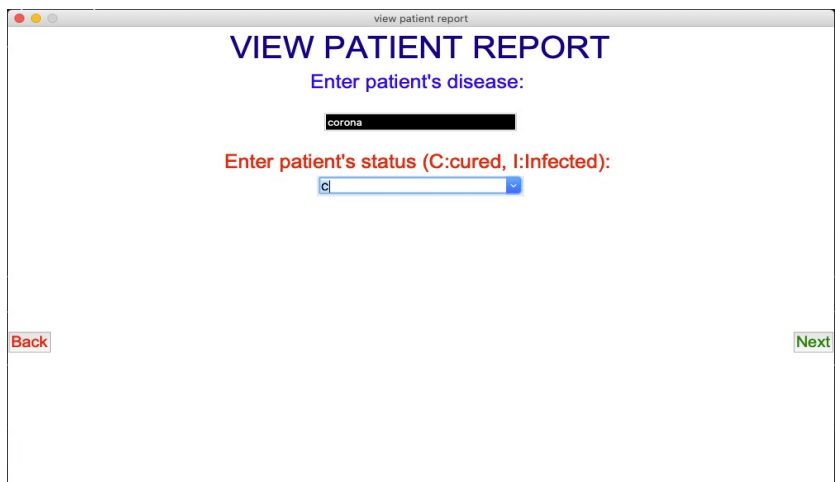
Enter patient's disease:

corona

Enter patient's status (C:cured, I:Infected):

I

Back Next



view patient report

VIEW PATIENT REPORT

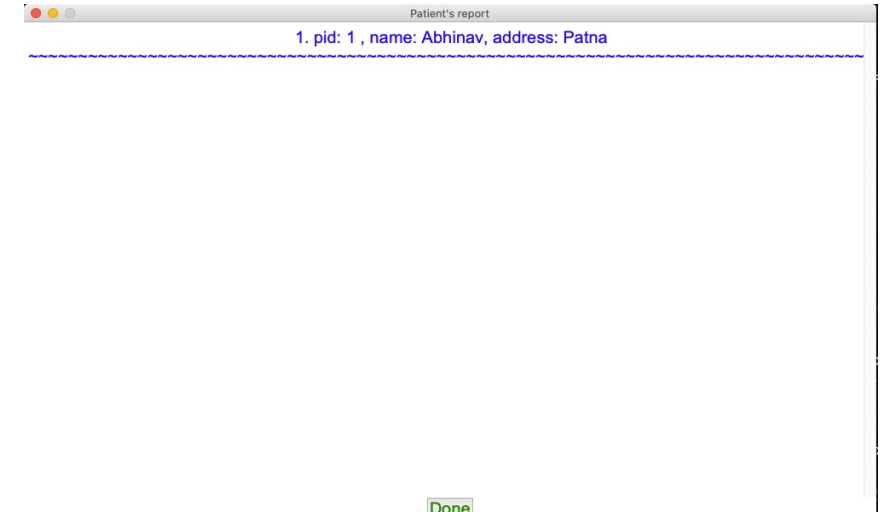
Enter patient's disease:

corona

Enter patient's status (C:cured, I:Infected):

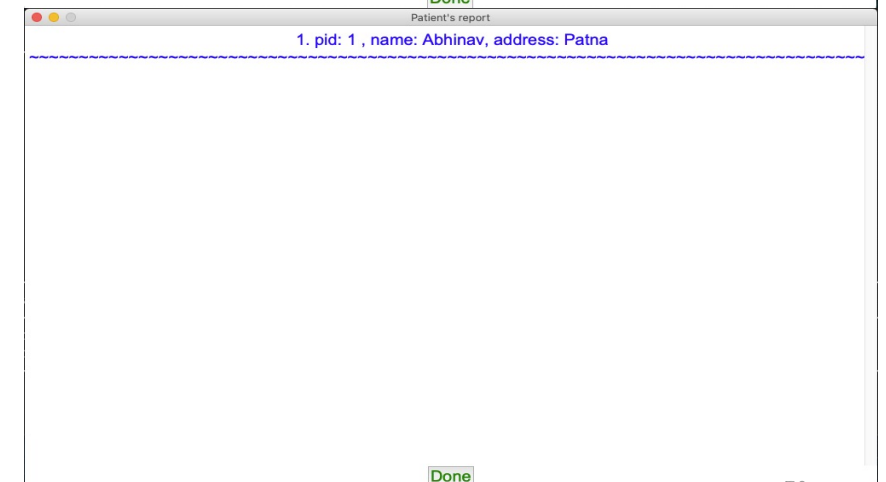
ci

Back Next



Patient's report

1. pid: 1 , name: Abhinav, address: Patna



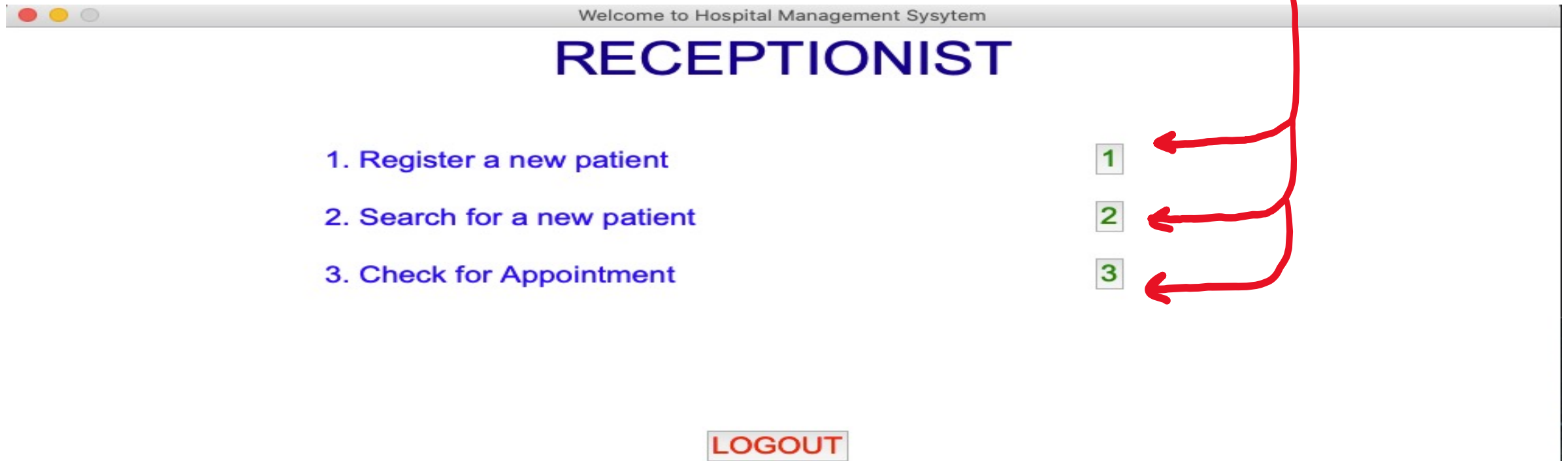
Patient's report

1. pid: 1 , name: Abhinav, address: Patna

Done

Receptionist

If the user logs in as u2(i.e. Receptionist), a window will open showing the **functions** of the Receptionist



Receptionist Work 1(Registration of patient):-

For registering a new patient the user will click '1' on the receptionist window which will take the user to a window taking the information of patient as entries.



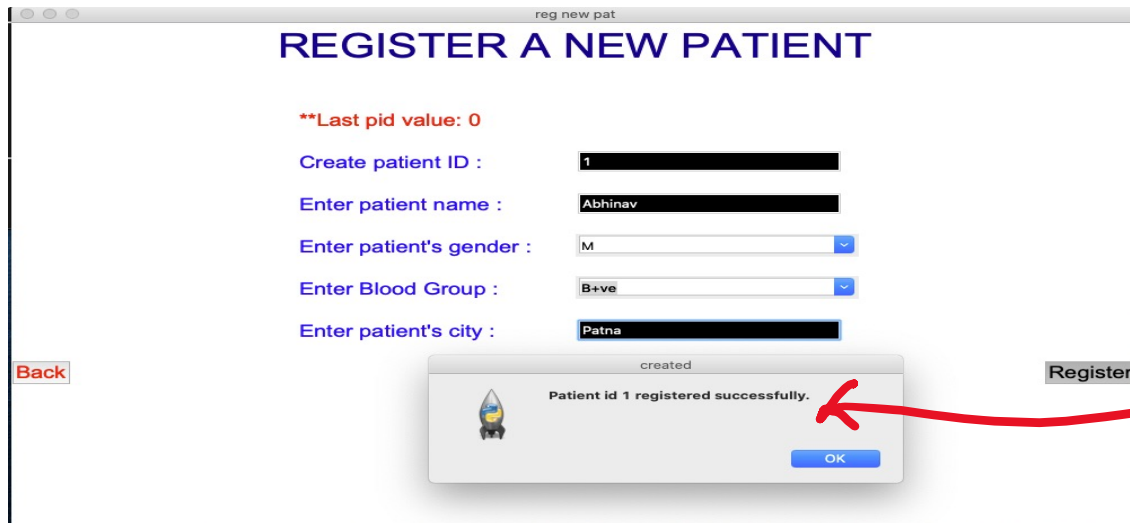
The screenshot shows a window titled "reg new pat" with the heading "REGISTER A NEW PATIENT". Below the heading, it says "**Last pid value:4". The form has the following fields: "Create patient ID :" (empty text box), "Enter patient name :" (empty text box), "Enter patient's gender :" (dropdown menu with "Choose Gender" selected), "Enter Blood Group :" (dropdown menu with "Choose Blood Group" selected), "Enter patient's city :" (empty text box), and "Enter patient's age :" (dropdown menu with "Choose age" selected). There are "Back" and "Register" buttons at the bottom.

If the user registers the patient with an ID that already exists for another patient then the message box will show:

'Patient ID already exists'



The screenshot shows the same "REGISTER A NEW PATIENT" form, but with an error message box displayed. The error message box is titled "Error" and contains the text "Patient ID already exists!!! Change patient id to continue." with an "OK" button. A red arrow points from the text "'Patient ID already exists'" to the error message box. The form fields are filled with: "Create patient ID :" (1), "Enter patient name :" (KK), "Enter patient's gender :" (O), "Enter Blood Group :" (O+ve), and "Enter patient's city :" (Delhi). There are "Back" and "Register" buttons at the bottom.



The screenshot shows the "REGISTER A NEW PATIENT" form with a success message box displayed. The success message box is titled "created" and contains the text "Patient id 1 registered successfully." with an "OK" button. A red arrow points from the text "If the user registers every field correctly." to the success message box. The form fields are filled with: "Create patient ID :" (1), "Enter patient name :" (Abhinav), "Enter patient's gender :" (M), "Enter Blood Group :" (B+ve), and "Enter patient's city :" (Patna). There are "Back" and "Register" buttons at the bottom.

If the user registers every field correctly.

MySql Results:-

```
mysql> show tables;
```

Tables_in_hospital
d_pat_1
d_patient
doctor
login
patient

5 rows in set (0.00 sec)

```
mysql> select * from patient;
```

pid	pname	gender	address	blood_group	reg_pat_date
1	Abhinav	M	Patna	B+ve	2021-01-24 12:09:19

1 row in set (0.00 sec)

Receptionist Work 2(Searching data of a patient):-

search a patient

SEARCH A PATIENT

Enter patient's name :

keer

Enter patient's blood group:

M

Choose Gender

M

F

O

Back

Search

Result

1. Patient's id (PID): 3

Done

search a patient

SEARCH A PATIENT

Enter patient's name :

a

Enter patient's blood group:

F

Choose Gender

M

F

O

Back

Search

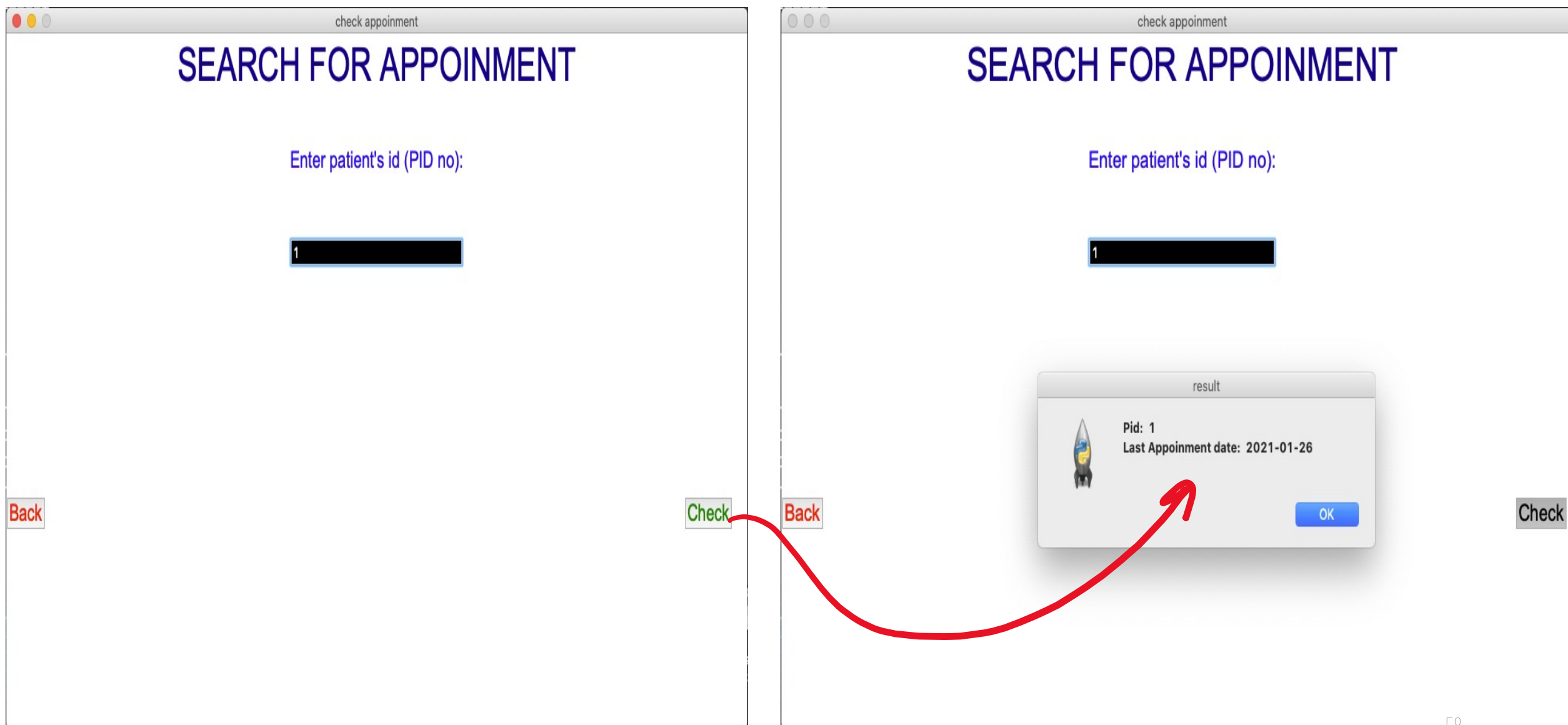
Result

1. Patient's id (PID): 2

2. Patient's id (PID): 4

Done

Receptionist Work 3(Checking for appointment):-



Doctor:-

If the user logs in as u3(i.e. Doctor), a window will open showing the user to enter the patient ID for the diagnose of that patient.

Welcome to Hospital Management Sysytem

DOCTOR

Diagnose the patient:

Enter patient's id:

LOGOUT

Next

login doctor

DOCTOR

Patient id (pid): 1
Patient's name: Abhinav
Patient's gender: M
Patient's blood group: B+ve
Patient history: 0*

Back
Continue

Making report of the patient:-

diagnosis patient

DOCTOR

1. Enter symptoms of patient:
2. Enter disease of patient:
3. Enter diagnosis done or suggested:
4. Enter medicines prescribed:
5. Enter whether patient is indoor or outdoor [I,O]:
6. Enter ADMIT date (YYYY-MM-DD):
7. Enter DISCHARGE date (YYYY-MM-DD):
8. Enter next APPOINTMENT date (YYYY-MM-DD):
9. Cured-'C'/Infected-'I':



diagnosis patient

DOCTOR

1. Enter symptoms of patient: fever
2. Enter disease of patient: corona
3. Enter diagnosis done or suggested: corona test
4. Enter medicines prescribed: pfizer
5. Enter whether patient is indoor or outdoor [I,O]:
6. Enter ADMIT date (YYYY-MM-DD): 2021-01-24
7. Enter DISCHARGE date (YYYY-MM-DD): None
8. Enter next APPOINTMENT date (YYYY-MM-DD):
9. Cured-'C'/Infected-'I':

January 2021

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
53	28	29	30	31	1	2	3
1	4	5	6	7	8	9	10
2	11	12	13	14	15	16	17
3	18	19	20	21	22	23	24
4	25	26	27	28	29	30	31
5	1	2	3	4	5	6	7

None Ok



diagnosis patient

DOCTOR

1. Enter symptoms of patient: none
2. Enter disease of patient: corona
3. Enter diagnosis done or suggested: corona test
4. Enter medicines prescribed: none
5. Enter whether patient is indoor or outdoor [I,O]:
6. Enter ADMIT date (YYYY-MM-DD): None
7. Enter DISCHARGE date (YYYY-MM-DD): 2021-01-24
8. Enter next APPOINTMENT date (YYYY-MM-DD): None
9. Cured-'C'/Infected-'I':

Done

Diagnose recorded !!!



diagnosis patient

DOCTOR

1. Enter symptoms of patient: none
2. Enter disease of patient: corona
3. Enter diagnosis done or suggested: corona test
4. Enter medicines prescribed: none
5. Enter whether patient is indoor or outdoor [I,O]:
6. Enter ADMIT date (YYYY-MM-DD): None
7. Enter DISCHARGE date (YYYY-MM-DD): 2021-01-24
8. Enter next APPOINTMENT date (YYYY-MM-DD): None
9. Cured-'C'/Infected-'I':

Viewing doctors report:-

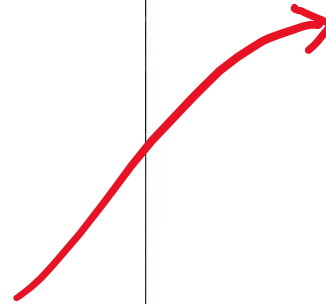
View doctors report

VIEW DOCTOR'S REPORT

Enter doctor ID to view report :

Back

Next



login doctor

DOCTOR

Patient id (pid): 1

Patient's name: Abhinav

Patient's gender: M

Patient's blood group: B+ve

Patient history: 1*

^|History: 1|^ ,
|Entry date: 2021-01-24 13:49:24| ,
|Symptoms: fever| ,
|Disease: corona| ,
|Diagnosis: corona test| ,
|Medicines given: pfizer| ,
|Patient admitted or not: I| ,
|Admit date (if admitted): 2021-01-24 00:00:00| ,
|Discharge date: None| ,
|Appointment date: 2021-01-26 00:00:00| ,
|-----|

Back

Continue

MySql Results:-

1.

```
mysql> select * from d_pat_1;
```

entry_dates	symptoms	disease	diagnosis	medicines	iop	admit_date	discharge_date	appointment_date
2021-01-24 13:49:24	fever	corona	corona test	pfizer	I	2021-01-24 00:00:00	NULL	2021-01-26 00:00:00
2021-01-24 13:51:46	none	corona	corona test	none	0	NULL	2021-01-24 00:00:00	1000-01-01 00:00:00

2 rows in set (0.00 sec)

2.

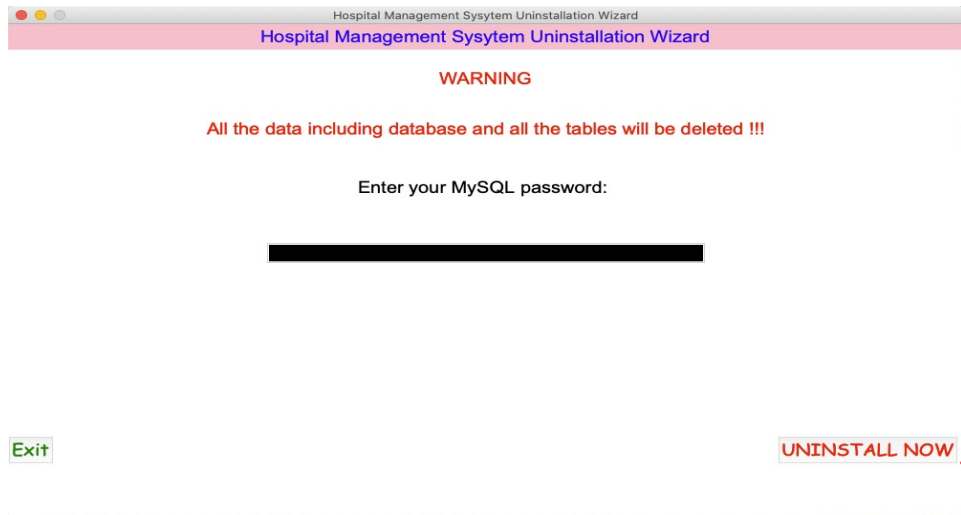
```
mysql> select * from d_patient;
```

pid	did	disease	iop	status
1	1	corona	I	I
1	1	corona	0	C

2 rows in set (0.00 sec)

Uninstallation Process

To uninstall the program click on the uninstallation file from the main folder. This will lead the user to a window which will ask the user to enter his/her MySQL password for the uninstallation process.



On clicking 'UNINSTALL' the user will uninstall the program and all the tables and the database created while installation will be deleted.

OR

If the user enters the wrong password a message box will pop-up and show 'Access Denied'.

