

# FLASK PROJECT

*Presented by: Ashour Yasser*



# OVERVIEW

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Version Control with GIT

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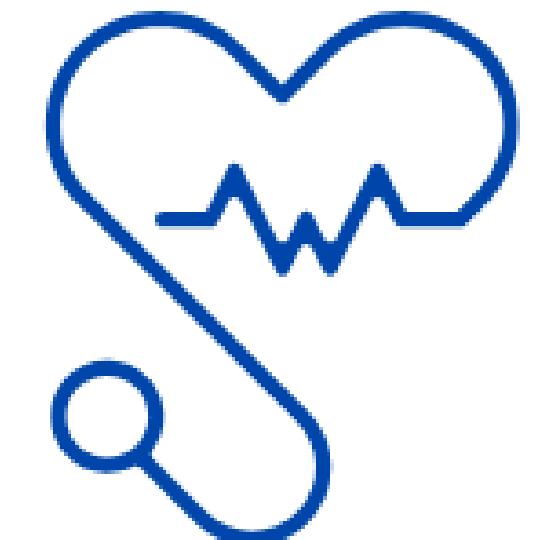
Centos VM.

06

Runing program

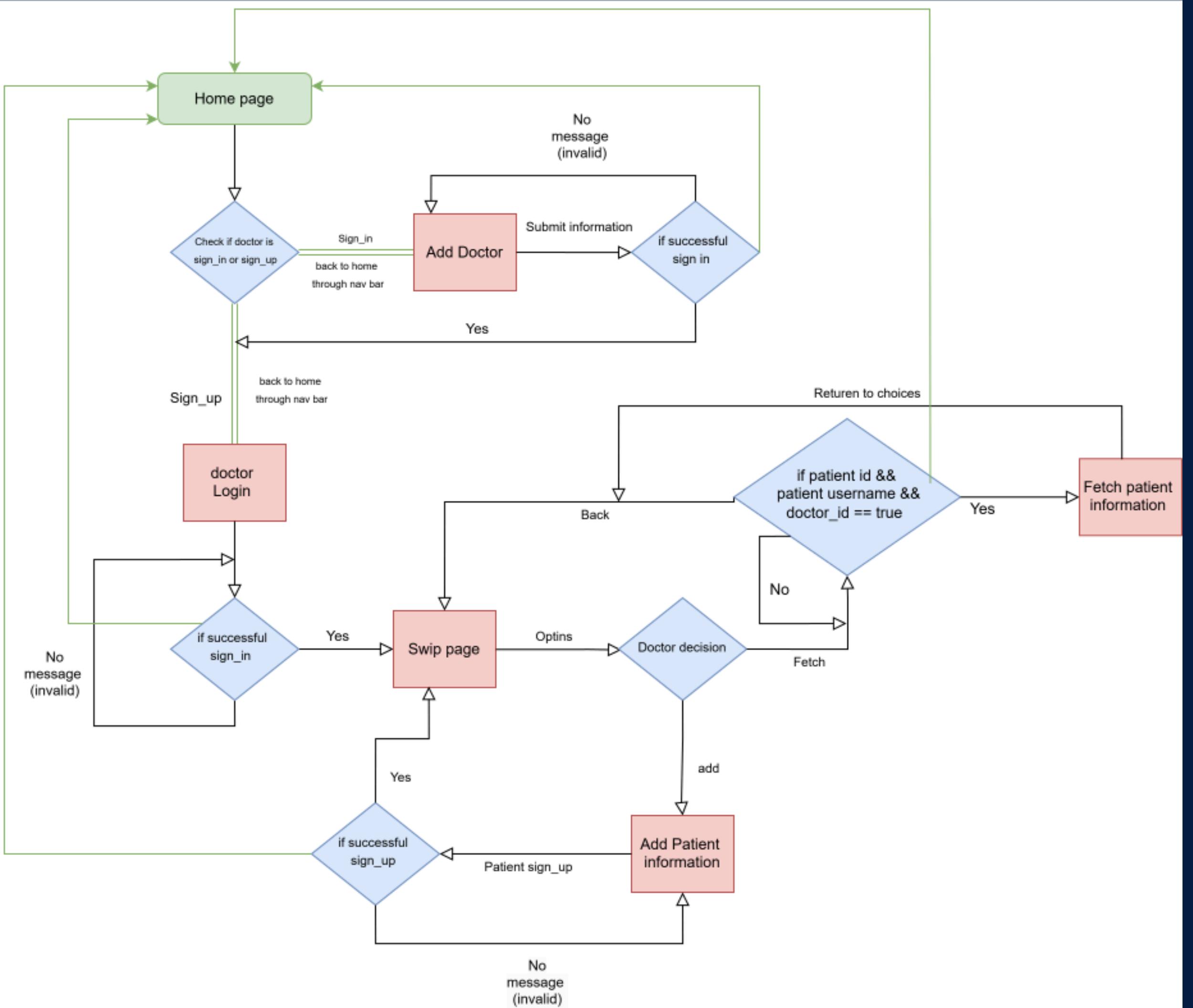
07

Upcoming Futures

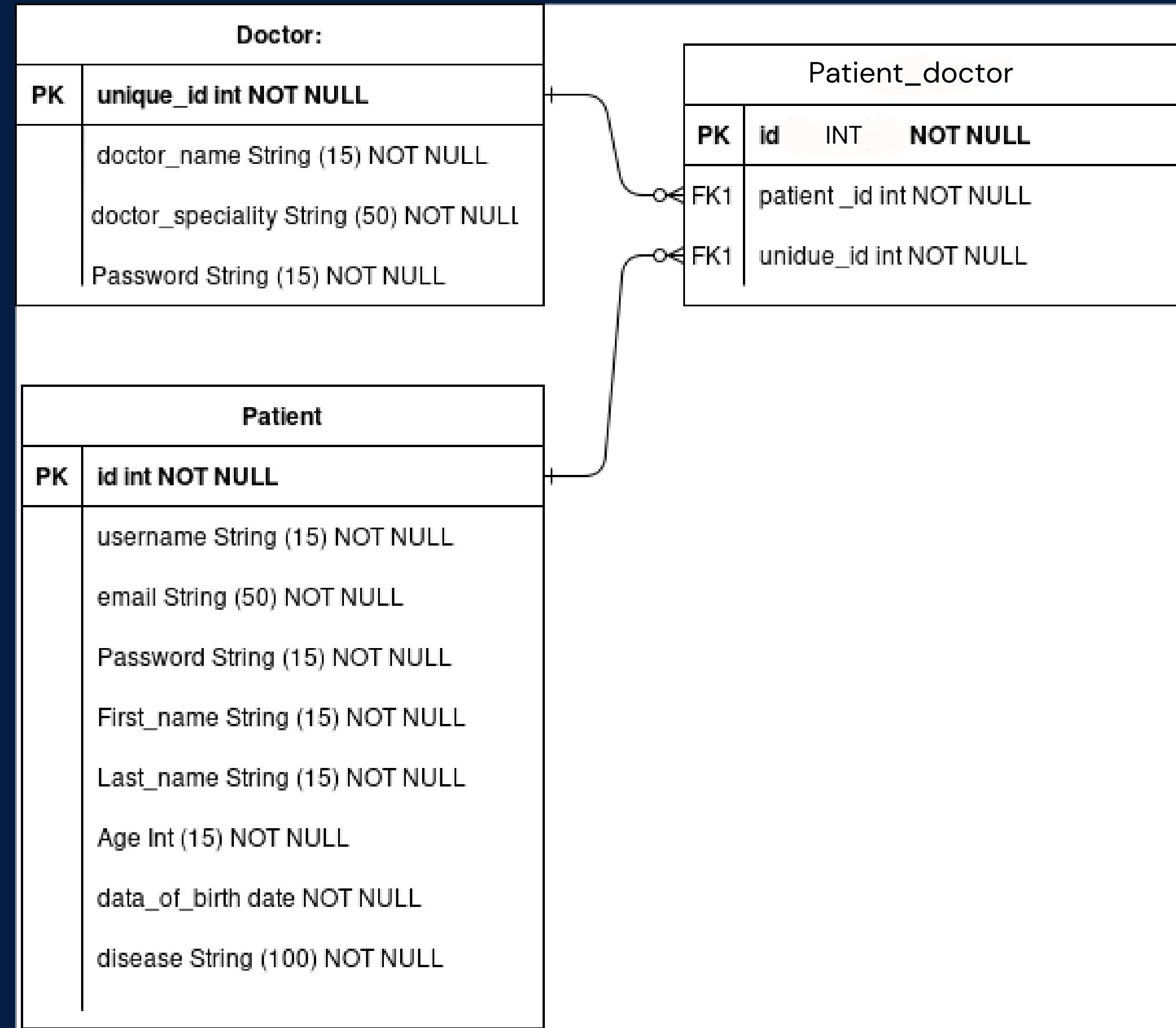


**ASH  
CLINICS**

# FLOW CHART



# ER DIAGRAM



# USE CASE

- Doctor

Sign Up as Doctor

Input: unique\_id, doctor\_name, password, doctor\_speciality

Output: Account creation and redirection to Sign In page.

- Sign In as Doctor

Input: unique\_id, password

Output: Access to the system if credentials match.

- Add New Patient

Input: Patient details including doctor\_id

Output: New patient added and assigned to the doctor.

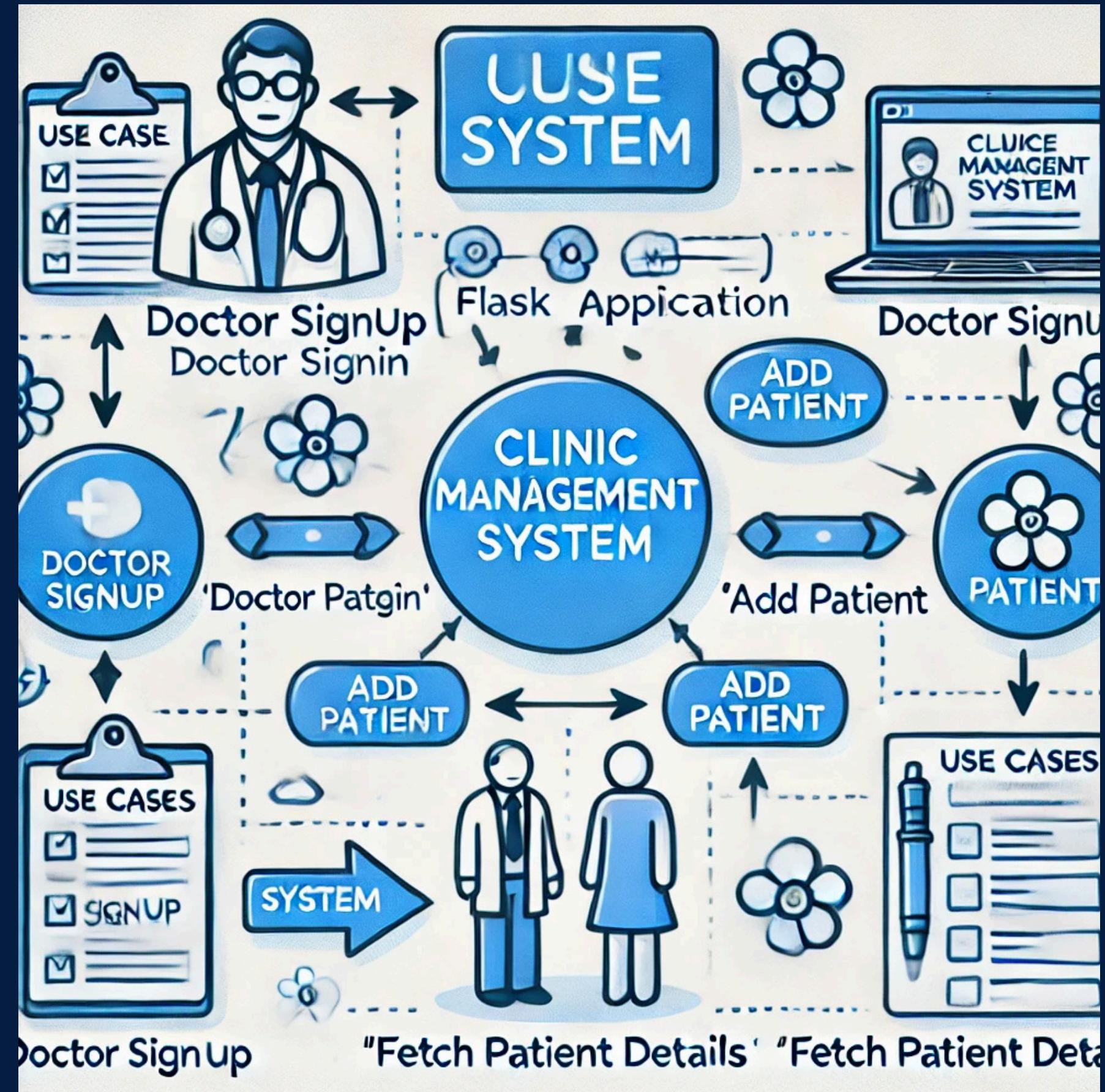
- Search for Patient

Input: patient\_id, username

Output: Patient details if assigned to the doctor.

Fetch Patient Details

Output: Detailed information about the patient.





# SET UP

VM (CENTOS) , GITHUP , VENV

- Start the VM in VMware.
- Install Git and clone your repository.
- Create a virtual environment and activate it.
- Install dependencies



The screenshot shows a GitHub repository page for 'Flask\_Clinic\_project-' owned by user 'Ashor11'. The repository is public and has 14 commits. The README file contains a brief description of the project as a Flask-based web application for clinic management. It lists features such as doctor management and patient management. The repository has 0 forks and 0 stars. There are sections for releases, packages, and languages.

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Flask\_Clinic\_project- Public

main 1 Branch 0 Tags

Go to file Add file Code

Ashor11 Update README.md e903330 · 1 hour ago 14 Commits

Flask\_project\_Final Delete Flask\_project\_Final/Decomntation directory 1 hour ago

README.md Update README.md 1 hour ago

README

# Clinic Management Application

This is a **Flask-based web application** designed to manage a clinic's operations, including doctor and patient sign-ups, patient management, and doctor-patient associations. The application uses **Flask-WTF** for form handling and **Flask-SQLAlchemy** for database management.

## Features

- **Doctor Management:**

Doctor sign-up and sign-in functionalities

Pin Unwatch 1 Fork 0 Star 0

About

Basic clinic project using flask

Readme Activity 0 stars 1 watching 0 forks

Releases

No releases published Create a new release

Packages

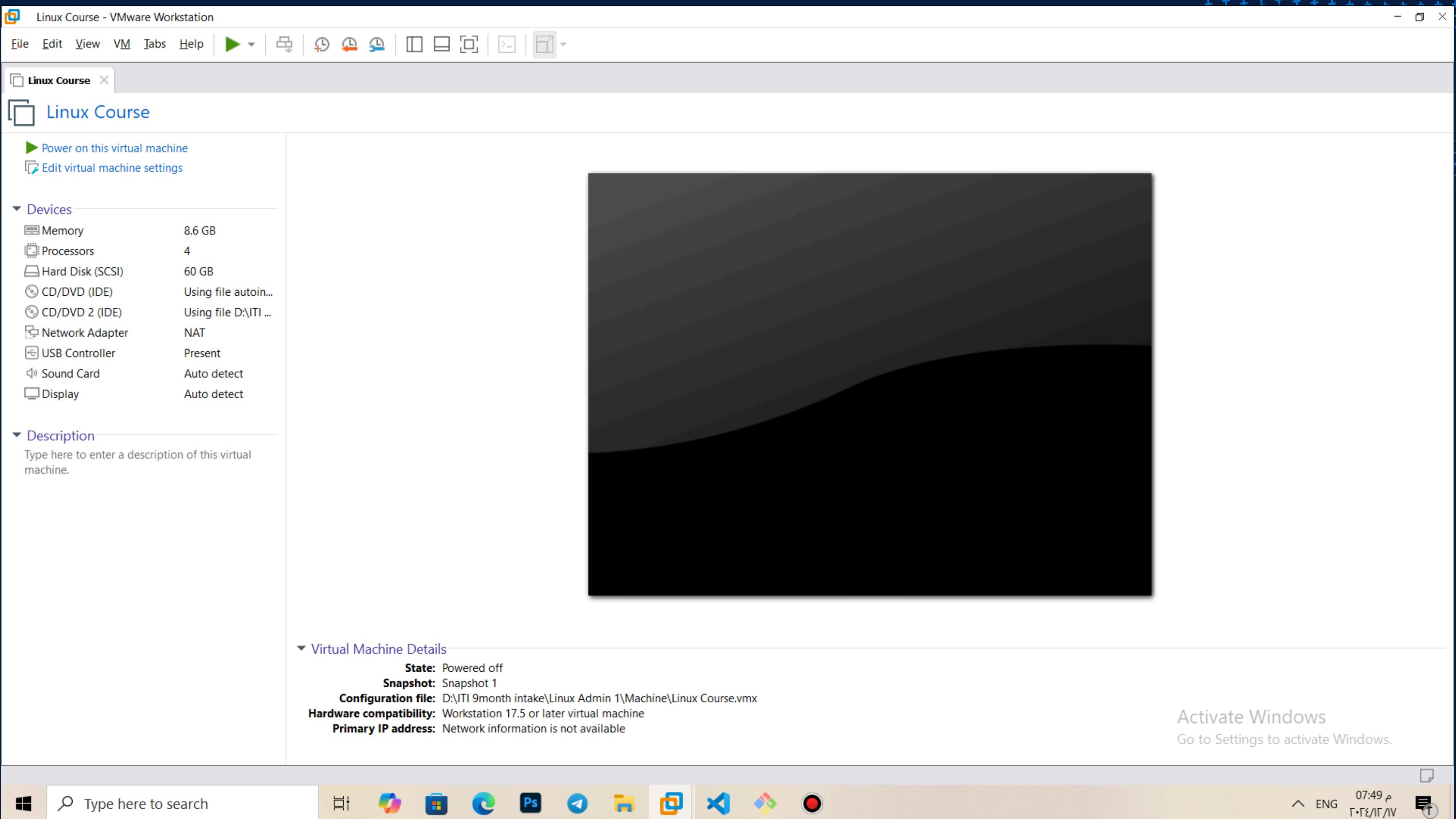
No packages published Publish your first package

Languages

Activate Windows Go to Settings to activate Windows.

HTML 58.3% Python 40.2%

# Upload my project to githup repo.



# Set Up CentOS Virtual Machine

Linux Course X

Activities Terminal Dec 17 19:06

root@localhost:~/python/Flask\_Clinc\_project-/Flask\_project\_Final/project

ashour@localhost:/home/ashour

```
[root@localhost python]# git clone https://github.com/Ashor11/Flask_Clinc_project-.git
Cloning into 'Flask_Clinc_project-'...
remote: Enumerating objects: 3138, done.
remote: Counting objects: 100% (32/32), done.
remote: Compressing objects: 100% (27/27), done.
remote: Total 3138 (delta 6), reused 0 (delta 0), pack-reused 3106 (from 1)
Receiving objects: 100% (3138/3138), 44.63 MiB | 1.81 MiB/s, done.
Resolving deltas: 100% (230/230), done.
[root@localhost python]# ls
Flask_Clinc_project-
[root@localhost python]# cd Flask_Clinc_project-
[root@localhost Flask_Clinc_project-]# pip3 install Flask
Collecting Flask
  Downloading flask-3.1.0-py3-none-any.whl (102 kB)
    |██████████| 102 kB 1.4 MB/s
Collecting Jinja2>=3.1.2
  Downloading jinja2-3.1.4-py3-none-any.whl (133 kB)
    |██████████| 133 kB 1.7 MB/s
Collecting importlib-metadata>=3.6
  Downloading importlib_metadata-8.5.0-py3-none-any.whl (26 kB)
Collecting blinker>=1.9
  Downloading blinker-1.9.0-py3-none-any.whl (8.5 kB)
Collecting click>=8.1.3
  Downloading click-8.1.7-py3-none-any.whl (97 kB)
    |██████████| 97 kB 3.2 MB/s
Collecting Werkzeug>=3.1
  Downloading werkzeug-3.1.3-py3-none-any.whl (224 kB)
    |██████████| 224 kB 3.7 MB/s
```

Activate Windows  
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Cloning the Repository from GitHub

Linux Course

Activities Terminal Dec 17 19:06

root@localhost:~/python/Flask\_Clinc\_project-/Flask\_project\_Final/project

ashour@localhost:/home/ashour

```
e a virtual environment instead: https://pip.pypa.io/warnings/venv
[root@localhost Flask_Clinc_project-]# python3 -m venv myenv
source myenv/bin/activate
(myenv) [root@localhost Flask_Clinc_project-]# pip install Flask Flask-WTF Flask-SQLAlchemy Flask-Migrate
Collecting Flask
  Using cached flask-3.1.0-py3-none-any.whl (102 kB)
Collecting Flask-WTF
  Downloading flask_wtf-1.2.2-py3-none-any.whl (12 kB)
Collecting Flask-SQLAlchemy
  Downloading flask_sqlalchemy-3.1.1-py3-none-any.whl (25 kB)
Collecting Flask-Migrate
  Downloading Flask_Migrate-4.0.7-py3-none-any.whl (21 kB)
Collecting itsdangerous>=2.2
  Using cached itsdangerous-2.2.0-py3-none-any.whl (16 kB)
Collecting Jinja2>=3.1.2
  Using cached jinja2-3.1.4-py3-none-any.whl (133 kB)
Collecting click>=8.1.3
  Using cached click-8.1.7-py3-none-any.whl (97 kB)
Collecting importlib-metadata>=3.6
  Using cached importlib_metadata-8.5.0-py3-none-any.whl (26 kB)
Collecting Werkzeug>=3.1
  Using cached werkzeug-3.1.3-py3-none-any.whl (224 kB)
Collecting blinker>=1.9
  Using cached blinker-1.9.0-py3-none-any.whl (8.5 kB)
Collecting wtforms
  Downloading wtforms-3.2.1-py3-none-any.whl (152 kB)
|██████████| 152 kB 1.4 MB/s
Collecting sqlalchemy>=2.0.16
  Downloading SQLAlchemy-2.0.36-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (3.1 MB)
```

Activate Windows  
Go to Settings to activate Windows.

Set my environment >> Installing the Required Packages

Linux Course X

Activities Terminal Dec 17 19:07

root@localhost:~/python/Flask\_Clinic\_project-/Flask\_project\_Final/project

ashour@localhost:/home/ashour

```
(myenv) [root@localhost Flask_Clinic_project-]# ls
Flask_project_Final myenv README.md
(myenv) [root@localhost Flask_Clinic_project-]# cd Flask_project_Final
(myenv) [root@localhost Flask_project_Final]# ls
instance project
(myenv) [root@localhost Flask_project_Final]# cd project
(myenv) [root@localhost project]# ls
app.py forms.py migrations __pycache__ static templates
(myenv) [root@localhost project]# python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:8080
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 666-062-191
127.0.0.1 - - [17/Dec/2024 19:04:55] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [17/Dec/2024 19:04:56] "GET /static/images/pic.png HTTP/1.1" 200 -
127.0.0.1 - - [17/Dec/2024 19:04:56] "GET /static/images/c1%20(2).jpg HTTP/1.1" 200 -
127.0.0.1 - - [17/Dec/2024 19:04:56] "GET /static/images/c1%20(3).jpg HTTP/1.1" 200 -
127.0.0.1 - - [17/Dec/2024 19:04:56] "GET /static/images/c1%20(1).jpg HTTP/1.1" 200 -
127.0.0.1 - - [17/Dec/2024 19:04:56] "GET /static/images/pngwing.com.png HTTP/1.1" 200 -
^Z
[1]+  Stopped                  python app.py
(myenv) [root@localhost project]#
(myenv) [root@localhost project]#
(myenv) [root@localhost project]#
(myenv) [root@localhost project]#
```

Activate Windows  
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To direct input to this VM, move the mouse pointer inside or press Ctrl+G.



Run the application



# RUNNING PROGRAM

SCREENSHOTS





Home Doctor Page New Doctor

## Welcome to Our Clinic

We are delighted to welcome you to our Clinic Management System.

Our goal is to provide you with a seamless and efficient platform to manage patient records, appointments, and other essential tasks.

Below are some important instructions to help you navigate and use the system effectively.

### Our Clinic in Pictures



Contact Us: [info@clinic.com](mailto:info@clinic.com) | Call us: +1 234 567 890

Staff: Dr. John Doe, Dr. Jane Smith, Nurse Emily White

Activate Windows

Go to Settings to activate Windows.

After press >> New Dotor

Home page

Home Doctor Page New Doctor

### Doctor Sign Up

Unique ID :

Doctor name :

Password :

Confirm Password :

Doctor speciality :

submit

Contact Us: [info@clinic.com](mailto:info@clinic.com) | Call us: +1 234 567 890

Staff: Dr. John Doe, Dr. Jane Smith, Nurse Emily White

Activate Windows  
Go to Settings to activate Windows.



## Doctor Sign Up

Unique ID :

1

Doctor name :

Mr.robert

Passowrd :

(Redacted)

Confirm Passowrd :

(Redacted)

Field must be equal to password.

Doctor speciality :

dentist

submit

Contact Us: [info@clinic.com](mailto:info@clinic.com) | Call us: +1 234 567 890

Staff: Dr. John Doe, Dr. Jane Smith, Nurse Emily White

Sign\_up page

Trying to sign up with different Password  
on the Password and Confirm\_password lapels

## Doctor Sign Up

Unique ID :

(Redacted)

Doctor name :

(Redacted)

Passowrd :

(Redacted)

Confirm Passowrd :

(Redacted)

Doctor speciality :

(Redacted)

submit

Contact Us: [info@clinic.com](mailto:info@clinic.com) | Call us: +1 234 567 890  
Staff: Dr. John Doe, Dr. Jane Smith, Nurse Emily White

Activate Windows  
Go to Settings to activate Windows.

Doctor Log in

Home Doctor Page New Doctor

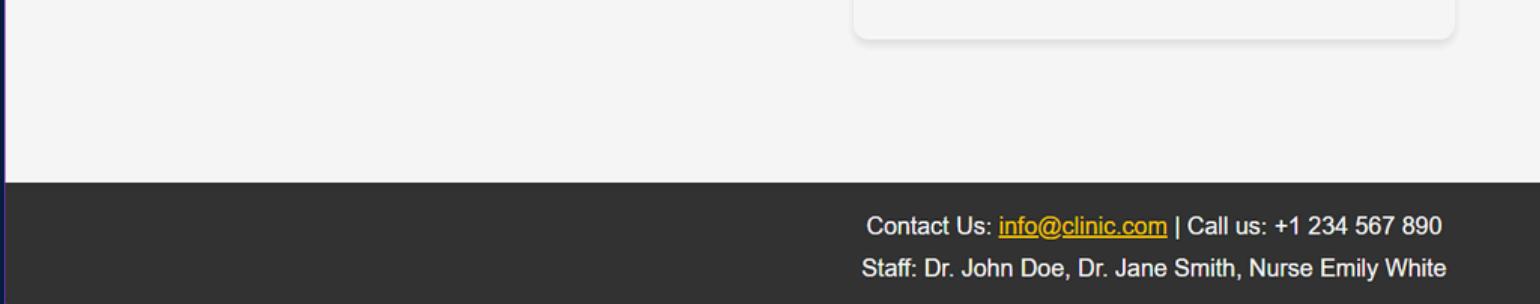
Doctor ID :  
1

Password :  ...

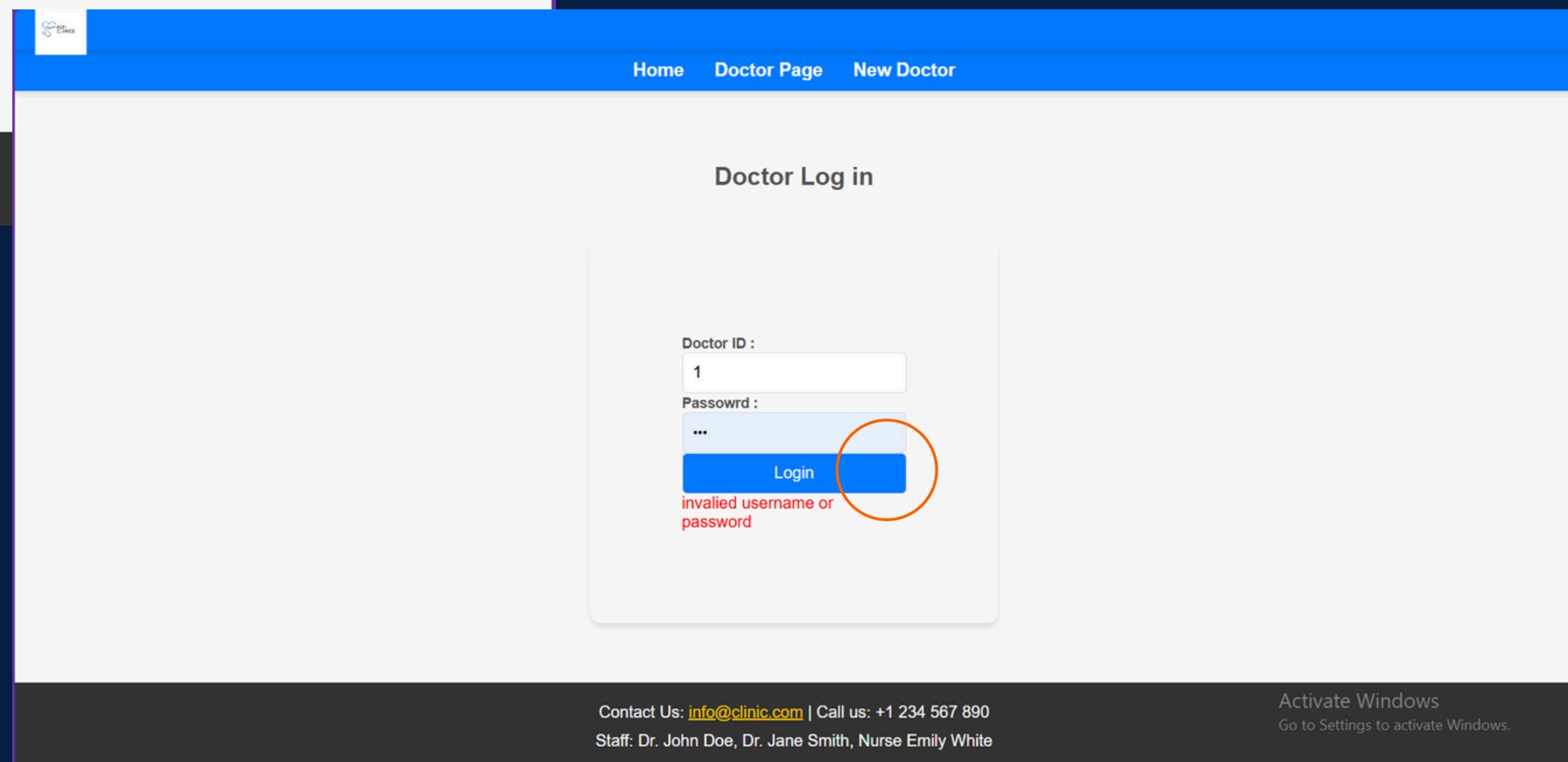
Login

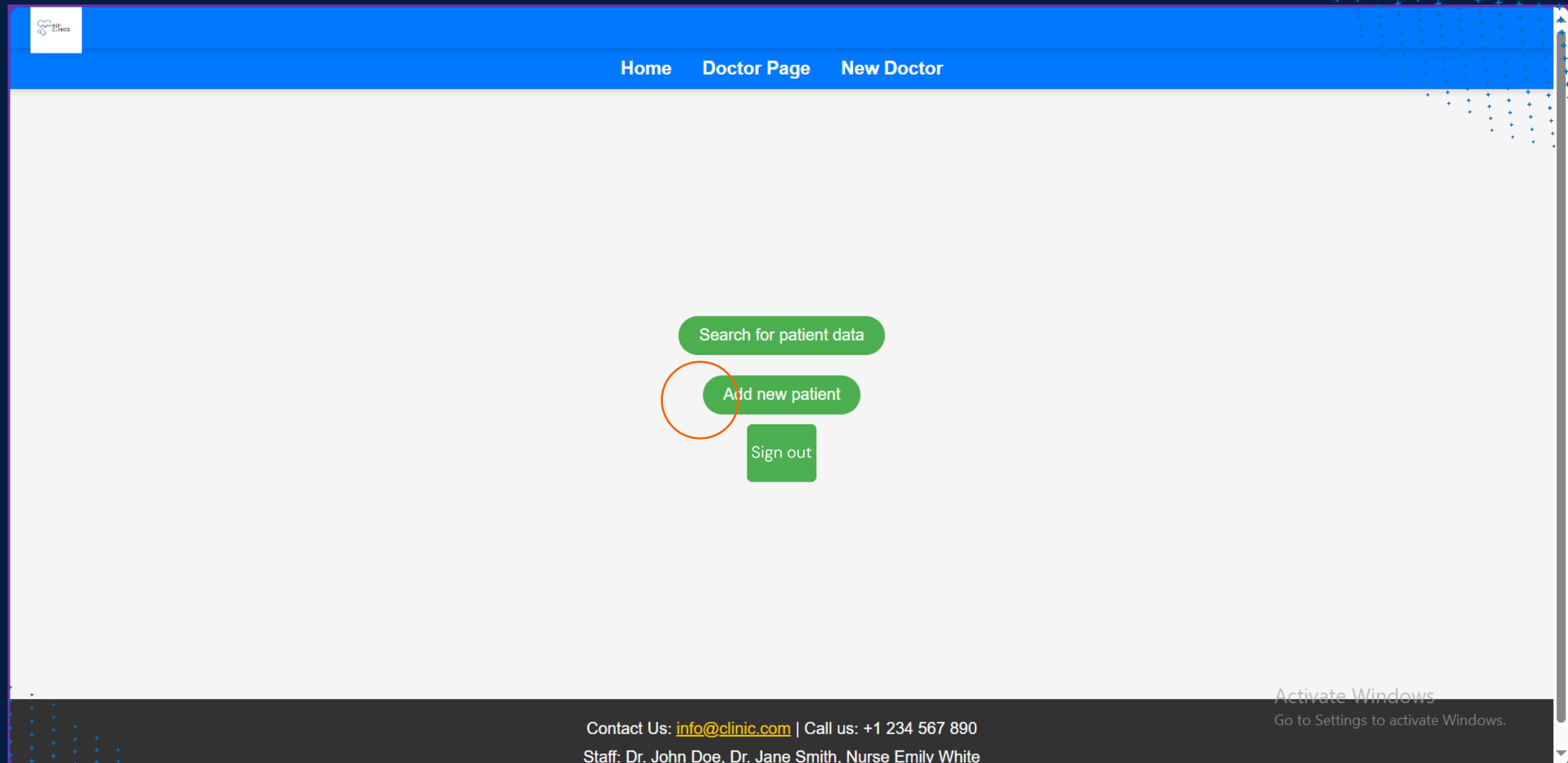
A red circle highlights the "Login" button.

After successfully sign up >> switch automatically to login page



Trying to logain with wrong password





After successfully login >> go to the doctor control page automatically



Home Doctor Page New Doctor

## Patient Information

Unique ID :

1

User name :

ismail22

First name :

Ismail

Last name :

mohamed

Email :

ismailmohamed@gmail.com

Passowrd :

Confirm Passowrd :

Field must be equal to password.

Date of Birth :

11/11/1999



Disease :

some illness

Activate Windows  
Go to Settings to activate Windows

Back

trying to add new record with wrong confirm password to the previous password label  
NOTE : we could press back in the bottom-left corner to back to the control doctor page

## Patient Information

Unique ID :  
1

User name :  
ismail22

First name :  
Ismail

Last name :  
mohamed

Email :  
ismailmohamed@gmail.com

Password :  
.....

Confirm Password :  
.....

Date of Birth :  
11/11/1999

Disease :  
some illness

Age :

submit

Activate Windows  
Go to Settings to activate Windows

Back

from doctor control page press >> add patient to add new patient record

NOTE : we could press back in the bottom-left corner to back to the control doctor page



Patient Details :

Patient ID

1

Username

yasser

search

this patient doesn't exist

From doctor control page press >> search for patient to search for records that assigned to this doctor recorded in this page i did try to access none exist patient

Contact Us: [info@clinic.com](mailto:info@clinic.com)  
Staff: Dr. John Doe, Dr. Jane Smith

in this case the doctor try to access an Available patient that not belong to him

NOTE : we could press back in the bottom-left corner to back to the control doctor page



Patient Details :

Patient ID

1

Username

ismail22

search

This patient is not assigned to you or doesn't exist

Contact Us: [info@clinic.com](mailto:info@clinic.com) | Call us: +1 234 567 890

Staff: Dr. John Doe, Dr. Jane Smith, Nurse Emily White

Activate Windows  
Go to Settings to activate Windows.

Back



### Patient Details :

#### Patient ID

1

#### Username

ismail22

search

### Patient Details

ID: 1

Username: ismail22

Email: ismailmohamed@gmail.com

Name: Ismail mohamed

Age: 25

Date of Birth: 1999-11-11

Disease: some illness

Contact Us: [info@clinic.com](mailto:info@clinic.com) | Call us: +1 234 567 890

Staff: Dr. John Doe, Dr. Jane Smith, Nurse Emily White

Activate Windows

Go to Settings to activate Windows.

Back

after the doctor press an assigend patient to him >>  
all the details appeared to te screen (FETCH)

NOTE : we could press back in the bottom-left corner to back to the control doctor page

app.py Clnic.db

instance > Clnic.db

Filter 3 tables... Rows: 2 Filter 2 rows... Upgrade to PRO

**TABLES**

- doctor
  - ROWID
  - # unique\_id
  - doctor\_name
  - password
  - doctor\_speciality
- patient
  - ROWID
  - # id
  - username
  - email
  - password
  - First\_name
  - Last\_name
  - # Age
  - data\_of\_birth
  - disease
- patient\_doctor
  - ROWID
  - # id
  - # patient\_id
  - # doctor\_id

Rows: 2

	key	username	email	password	First_name	Last_name	Age	data_of_birth	disease
1	ismail22	ismailmohamed@gmail.com	123123123123	Ismail	mohamed	25	1999-11-11	some illness	
2	hassan11	hassanabdelrhman@gmail.com	123456789	hassan	abdelrhman	22	2002-02-06	broken legs	

.SQLITE VIEWER FREE v0.9.5

PROBLEMS OUTPUT TERMINAL POSTMAN CONSOLE DEBUG CONSOLE PORTS

127.0.0.1 [02/Dec/2024 16:54:27] "GET /static/images/c1%20(2).jpg HTTP/1.1" 304 -  
 127.0.0.1 [02/Dec/2024 16:54:27] "GET /static/images/c1%20(3).jpg HTTP/1.1" 304 -

Copy as TSV Python + - X

Activate Windows Go to Settings to activate Windows

screenshot of my database >> patient table

Selection View Go Run Terminal Help ← → 🔍 Flask\_project\_Final

Clinc.db X

Clinc.db

Filter 3 tables... Rows: 2 Filter 2 rows... Upgrade

		unique_id	doctor_name	password	doctor_speciality	
doctor		1	Mr.robert	123	dentist	
ROWID		2	kamal	123	surgest	
unique_id	key	1				
doctor_name		2				
password		3				
doctor_speciality						
patient						
ROWID						
id	key					
username						
email						
password						
First_name						
Last_name						
Age						
date_of_birth						
disease						
patient_doctor						
ROWID						
id	key					
patient_id	key					
doctor_id	key					

screenshot of my database >>doctor table

Selection View Go Run Terminal Help ← → 🔍 Flask\_project\_Final

py Clinc.db X

e > Clinc.db

Filter 3 tables... Rows: 2 Filter 2 rows... Upgrade

	id	patient_id	doctor_id
	1	1	1
	2	2	2
+	3		

ROWID unique\_id doctor\_name password doctor\_speciality patient ROWID id username email password First\_name Last\_name Age data\_of\_birth disease patient\_doctor ROWID id patient\_id doctor\_id

screenshot of my database >> table that continue the M-M relationship

# NEXT FUTURE



## Scalability

by adding  
('/patient\_new\_recored') that will  
allow the docotr to add more than  
recored to the same patient  
without overwriting



## Optimization

To send pdf cotinine the patient  
case to each patient through  
email in ('/patient\_pdf') function



## Flexibility

to be able to delete an recorded  
patient without affect same  
patient records  
through ('/Delete\_recored')