

INFORMATICS PRACTICES PROJECT

**Amity International School,
Noida**



Efforts by-

Manya Kothari

12M

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PACKAGES/MODULES USED

Turtle : Turtle is a Python feature like a drawing board, which lets us command a turtle to draw all over it!

Time : There is a popular time module available in Python which provides functions for working with times, and for converting between representations.

Random : You can generate random numbers in Python by using random module. Python offers random module that can generate random numbers.

Mysql.connector : MySQL Connector/Python is a standardized database driver provided by MySQL. MySQL Connector/Python supports almost all features provided by MySQL version 5.7.

AIM

The objective of this project is to let the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good software.

1. Write programs utilizing modern software tools.
2. Apply object-oriented programming principles effectively when developing small to medium sized projects.
3. Write effective procedural code to solve small to medium sized problems.
4. Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory, and software development.
5. Students will demonstrate ability to conduct research or applied Computer Science project, requiring writing and presentation skills which exemplify scholarly style in computer science.

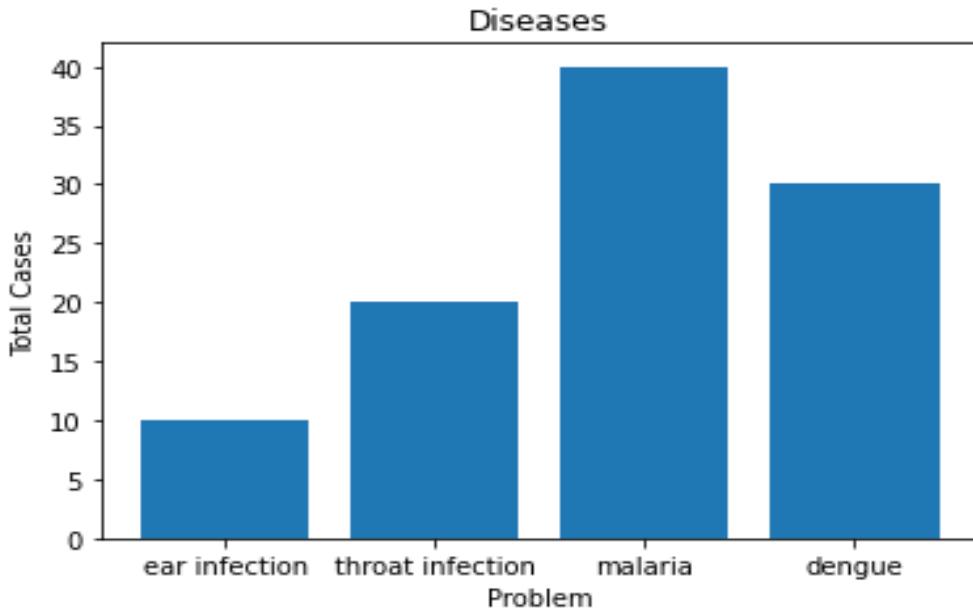


INTRODUCTION

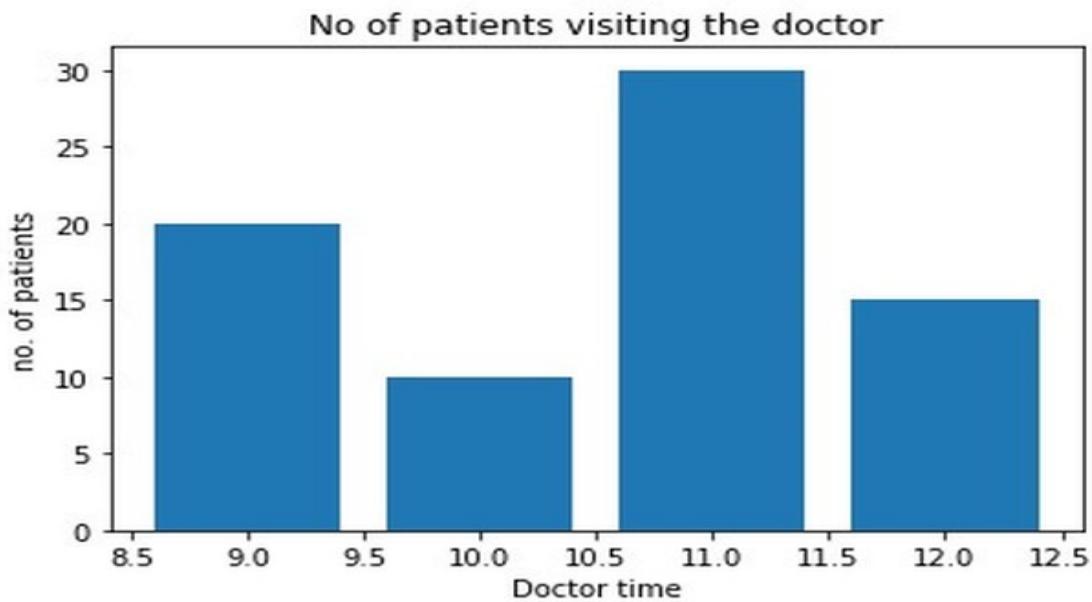
The Hospital Management System (HMS) is designed for Any Hospital to replace their existing manual, paper-based system. This System targets to provide complete solution for Hospital and Health care services. This System can be used in any Hospital, Clinic, Diagnostics or Pathology labs for maintaining patient details and their test results. It Integrates the entire Resources of a Hospital into One Integrated Software Application.

MATPLOTLIB

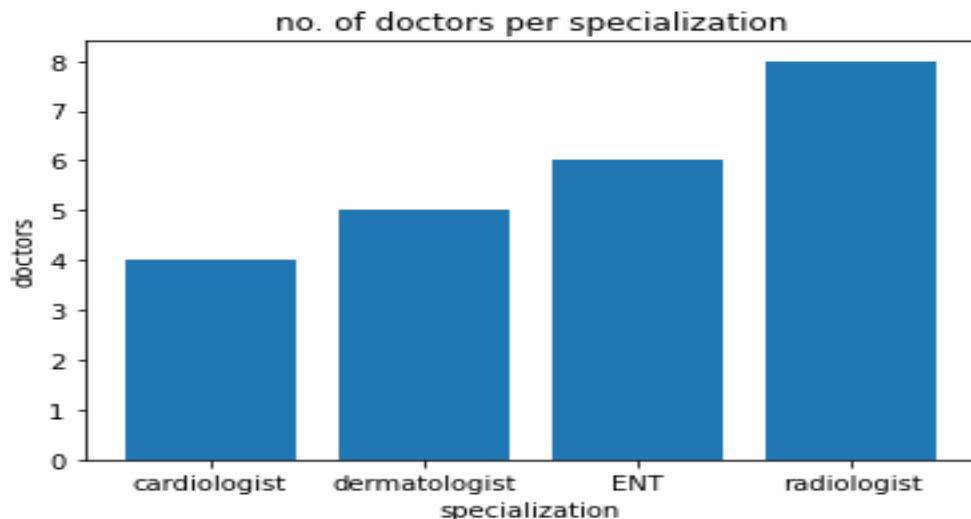
```
import matplotlib.pyplot as plt  
  
plt.symptom=('ear infection','throat infection','malaria','dengue')  
  
plt.total_cases=(10,20,40,30)  
  
plt.bar(plt.symptom,plt.total_cases)  
  
plt.title("Diseases")  
  
plt.xlabel("Problem")  
  
plt.ylabel("Total Cases")  
  
plt.xticks(df.symptom)  
  
plt.show()
```



```
import matplotlib.pyplot as plt  
  
doctime=[9.00,10.00,11.00,12.00]  
  
patients=[20,10,30,15]  
  
plt.xlabel('doctime')  
  
plt.ylabel('patients')  
  
plt.title('No. of patients visiting the doctor')  
  
plt.bar(doctime,patients)  
  
plt.show()
```



```
import matplotlib.pyplot as plt  
specialization=['cardiologist','dermatologist','ENT','radiologist']  
Numberofdoctors=[4,5,6,8]  
plt.xlabel('specialization')  
plt.ylabel('doctors')  
plt.title('no. of doctors per specialization')  
plt.bar(specialization,Numberofdoctors)  
plt.show()
```



SOURCE CODE

```
print("=====  
Welcome To CityHospital  
===== )  
break  
##creating database connectivity  
import mysql.connector  
passwd = str(input("Enter the Password Please!!:"))  
  
while (True):  
    print("1. Sign In  
        2. Registration")  
  
    r = int(input("enter your choice:"))  
    if r == 2:  
        print("=====  
        !!!!!!!Register Yourself!!!!!!  
        ===== )  
  
        u = input("Input your username!!:")  
        p = input("Input the password (Password must be strong!!!:)  
  
        print("=====  
        !!Well Done!!Registration Done Successfully!!
```

```
=====
x = input(("enter any key to continue:"))

# IF USER WANTS TO LOGIN

if r == 1:

    print(""""

=====

!!!!!! {{Sign In}} !!!!!!!!!

===== """)"

un = input("Enter Username!!:")

ps = input("Enter Password!!:")

# if user wants to enter administration option

a = int(input("ENTER YOUR CHOICE:"))

if a == 1:

    print("""1. Display the details

2. Add a new member

3. Delete a member

4. Make an exit""")"

b = int(input("Enter your Choice:"))

if b == 2:

    print("""1. Doctors Details""")"

# FOR ENTERING DETAILS OF DOCTORS

c = int(input("ENTER YOUR CHOICE:"))

if c == 3:

    # ASKING THE DETAILS

    name = input("Enter the doctor's name")

    spe = input("Enter the specialization:")
```

```

age = input("Enter the age:")
add = input("Enter the address:")
cont = input("Enter Contact Details:")
fees = input("Enter the fees:")
ms = input("Enter Monthly Salary:")
print("SUCCESSFULLY ADDED")

#if user wants to delete data

c = int(input("Enter your Choice:"))
if c == 4:
    name = input("Enter Doctor's Name:")

    print(row)
    p = input("you really want to delete this data? (y/n):")
    if p == "y":
        mysql.commit()
        print("SUCCESSFULLY DELETED!!")
    else:
        print("NOT DELETED")

```

OUTPUT

=====

Welcome To CityHospital

=====

Enter the Password Please!!:

1. Sign In
2. Registration

enter your choice:1

Input your username!!:manya

Input the password (Password must be strong!!!:manya@1805

ENTER YOUR CHOICE:3

ENTER YOUR CHOICE:3

Enter the doctor's name MANISH KOTHARI

Enter the specialization: CARDIOLOGIST

Enter the age: 36

Enter the address: DELHI

Enter Contact Details: 8765234100

Enter the fees: 500

Enter Monthly Salary: 60,000

SUCCESSFULLY ADDED

ENTER YOUR CHOICE:1

1. Display the details

2. Add a new member

3. Delete a member

4. Make an exit

Enter your Choice:2

1. Doctors Details

ENTER YOUR CHOICE:3

Enter the doctor's name manvi

Enter the specialization: ENT

Enter the age: 42

Enter the address: pune

Enter Contact Details: 1234567890

Enter the fees: 500

Enter Monthly Salary: 10,000

SUCCESSFULLY ADDED

Enter your Choice:4

Enter Doctor's Name:manvi

you really want to delete this data? (y/n):y

SUCCESSFULLY DELETED!!

BIBLIOGRAPHY

- <https://www.shanelynn.ie/select-pandas-dataframe-rows-and-columns-using-iloc-loc-and-ix/>
- <https://cfpub.epa.gov/ghgdata/inventoryexplorer/>
- <https://pbpython.com/simple-graphing-pandas.html>
- <https://www.geeksforgeeks.org/creating-a-dataframe-using-excel-files/>
- <https://stackoverflow.com/>
- <https://datatofish.com/line-chart-python-matplotlib/>