**A Report on Open ended problem titled**

“**HOSPITAL APPOINTMENT MANAGEMENT**”

*Submitted for partial fulfillment of IV semester OOPS*

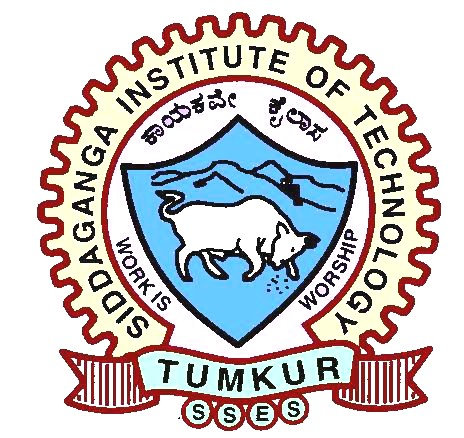
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HOSPITAL APPOINTMENT MANAGEMENT

Abstract:

C++ code is implemented to store the details of the appointment being booked and the slots available if not full. It displays the total number of slots number of them available and number of them free.

Implementation

Simple functions have been to manipulate data structure and file handling, so here I will just list the features of this project.

* Number of slots
* Available slots
* Book a slot
* Slots condition

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**INTRODUCTION**

The main objectives of this project are listed as follows:

* Number of slots
* Available slots
* Book a slot
* Slots condition

The facilities provided in the project will be checking for the available number of slots and booking them as per need .

Initially the fixed number of slots are made free to make available for the appointment. Each time the appointment is requested the appointment is approved if free or displayed occupied and displayed available slots the final available and filled slots.

**IMPLIMENTATION**

#include <iostream>

#include <string>

#include <fstream>

#include <cstring>

#include <stdlib.h>

#include <stdio.h>

using namespace std;

int bookAppointment()

{

cout<<"\n ----- Book Your Appointment ---- \n";

cout<<"\n ----- Availbale slots ---- \n";

ifstream read;

read.open("appointment.dat");

int hoursbook = 8;

int arr[13] = {0,0,0,0,0,0,0,0,0,0,0,0,0};

int recordFound =0;

if(read)

{

string line;

char key = 'A';

int i = 9;

while(getline(read, line)) {

char temp = line[0];

int index = (temp - 65);

arr[index]=1;

recordFound = 1;

}

if(recordFound == 1)

{

cout<<"\n Appointment Summary by hours:";

char key = 'A';

int hours = 9;

for(int i = 0; i<=12; i++)

{

if(i == 0){

if(arr[i] == 0)

cout<<"\n "<<key<<"-> 0"<<hours<<" - Available";

else

cout<<"\n "<<key<<"-> 0"<<hours<<" - Booked";

}

else

{

if(arr[i] == 0)

cout<<"\n "<<key<<"->"<<hours<<" - Available";

else

cout<<"\n "<<key<<"->"<<hours<<" - Booked";

}

hours++; key++;

}

}

read.close();

}

if(recordFound == 0){

cout<<"\n Appointment Available for following hours :";

char key = 'A';

for(int i = 9; i<=21; i++)

{

if(i==9)

cout<<"\n "<<key<<" -> 0"<<i<<" - Available";

else

cout<<"\n "<<key<<" -> "<<i<<" - Available";

key++;

}

}

char choice;

cout<<"\n\n Input your choice : ";

cin>>choice;

if( !(choice >= 'A' && choice <='Z'))

{

cout<<"\n Error : Invalid Selection";

cout<<"\n Please selction correct value from menu A- Z";

cout<<"\n Press any key to continue";

getchar();getchar();

bookAppointment();

}

int index = (choice-65 );

int isBooked = 1;

if(arr[index] == 0)

isBooked = 0;

if(isBooked ==1)

{

cout<<"\n Error : Appointment is already booked for this Hour";

cout<<"\n Please select different time !!";

cout<<"\n Press any key to continue!!";

getchar();getchar();

bookAppointment();

}

string name;

cout<<"\n Enter your first name:";

cin>>name;

ofstream out;

out.open("appointment.dat", ios::app);

if(out){

out<<choice<<":"<<name.c\_str()<<"\n";

out.close();

cout<<"\n Appointment booked for Hours : "<< (choice-65) + 9 <<" successfully !!";

}

else

{

cout<<"\n Error while saving booking";

}

cout<<"\n Please any key to continue..";

getchar(); getchar();

return 0;

}

int existingAppointment()

{

cout<<"\n ----- Appointments Summary ---- \n";

ifstream read;

read.open("appointment.dat");

int hoursbook = 8;

int arr[13] = {0,0,0,0,0,0,0,0,0,0,0,0,0};

int recordFound =0;

if(read)

{

string line;

char key = 'A';

int i = 9;

while(getline(read, line)) {

char temp = line[0];

int index = (temp - 65);

arr[index]=1;

recordFound = 1;

}

if(recordFound == 1)

{

cout<<"\n Appointment Summary by hours:";

char key = 'A';

int hours = 9;

for(int i = 0; i<=12; i++)

{

if(arr[i] == 0)

cout<<"\n "<<key<<"->"<<hours<<" - Available";

else

cout<<"\n "<<key<<"->"<<hours<<" - Booked";

hours++; key++;

}

}

read.close();

}

else

{

char key = 'A';

for(int i = 9; i<=21; i++)

{

if(i==9)

cout<<"\n "<<key<<" -> 0"<<i<<" - Available";

else

cout<<"\n "<<key<<" -> "<<i<<" - Available";

key++;

}

}

cout<<"\n Please any key to continue..";

getchar(); getchar();

return 0;

}

int main() {

while(1)

{

cout<<"\t\t\tDoctor Appointment System\n";

cout<<"-----------------------------------\n\n";

cout<<"1. Book Appointment\n";

cout<<"2. Check Existing Appointment\n";

cout<<"0. Exit\n";

int choice;

cout<<"\n Enter you choice: ";

cin>>choice;

switch(choice)

{

case 1: bookAppointment(); break;

case 2: existingAppointment(); break;

case 0: exit(0);

default: cout<<"\n Invalid choice. Enter again ";

getchar();

}

}

return 0;

}

**CONCLUSION**

Therefore we can conclude that the project has been successful for what it aims to perform. This program under the project can be used in a hospital reception departments for the proper management of appointment records along with the present status. Hence although the project got some of its limitations the maximum effort was targeted for the gain of its aim.

**THANK YOU**