Appointment scheduling system

A close-up of a computer

Description automatically generated

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What is Online appointment scheduling system?

* Is Its a system that allows clients to book, reschedule, or cancel appointment through a user friendly program, that is accessible 24/7

**The importance of online scheduling system?**

1. Enhancing customer convenience
2. Increased efficiency:
3. Improves accuracy
4. Data insights and reporting

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* We have made a c++ program that helps user to add , cancel , edit, or view appointment.
* We have made this program using structure , class, and various functions outside the int main.

A screen shot of a computer program

Description automatically generated

here we used structure to gather information about the user like ID , Date, Time etc…

A computer screen shot of a program

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Here we used class we used private and public classes,

The private cannot be accessed or edited outside the class.

The public class can be accessed and edit through the int main

We used void functions for the appointment because there is no need for return value.



here in the in main now we used of stream to upload the file.

A screen shot of a computer program

Description automatically generated

* Secondly, we declared a variable named choice so the user can choose what does they want to do to their appointment whether they want to add, view, edit, cancel, search, generate report, or exit program. By sending out a massage to the user through (cout). And they can choose by (cin)
* Thirdly, whatever the user choose the enters into a switch case. A switch case is a conditional operation where if the user chooses the user is presented with specific number of cases depending on the programming and every case has its own condition where I the first condition is true then first cases happens if not then the code automatically moves to the next case .
* Fourthly the do while condition is there so the user doesn’t use more then the 7 operation available.

A computer screen with text

Description automatically generated

If the user chooses to add appointment.

The program then takes them to the addAppointment function and then they have to file the required questions. Such as ID, Date, Time etc..A computer screen with text on it

Description automatically generated

If the user chooses viewAppointment

The program takes them to the viewappointment function and they have to enter the day of the appointment.

Then the input of the user enters in a for loop to check every appointment in the list “the file we have imported to the program” and inside the loop we’re also checking if the input that user entered is available or matches the data in the file. If the data matches, then the program prints the rest of the details of the appointment like ID, Time, Duration, Description, and Participants.

A computer screen shot of a program code

Description automatically generated

If the use chooses to editAppointment.

Then the program takes them to the edit appointment function, the program asks them to enter their Id to be able to edit the appointment.

We take the ID that the user entered and search through the data until the program finds the ID.

Then we ask the user what exactly they want to edit and we take their input run it through switch cases condition and depending on the user’s choice, we prompt them to enter the new details like if they choose date then the program asks them to enter new date like “dd/mm/yyyy”

Then we use (cin,ignore) to clear any left lines before the (get.line) the program doesn’t read any empty line.

The program prints the appointment after the edit that happened.

A computer screen with colorful text

Description automatically generated

If the user chooses cancelAppointment.

The program starts by asking the user to enter the id of the appointment.

Then the program takes the ID and searches through the data to find the data.

If the program finds the ID of the appointment the program uses a function name “erase” to delete the appointment

The erase function cancel the appointments effectively

Then the program prints out the result to the user through cout. If the program doesn’t find the appointment id in the data then the program prints (appointment is not found)

A black screen with many lines

Description automatically generated with medium confidence

If the user choose searchappointment.

Then the program takes them to the searchappointment function

First we ask the user how they want to search for the appointment they choose (1,2, or 3)

The program takes the user input and runs it through a switch case condition and depending on the user input we execute parts of the function to search for the appointment based on date, participants, or description.

We use for loop to find the appointment that matches the user input depending on which way they chose to identify their appointment.

If the input matches the data in file then we display the details of the appointment.

Then we use (cin,ignore) to clear any left lines before the (get.line) so the program doesn’t read any empty line.

The we prints out the output of the appointment.

A computer screen shot of text

Description automatically generated

If the user chooses generateReport.

Then the program takes the user through the generalreport function.

The generating report function is responsible for generating a report of all appointments stored in the appointment list.

The program goes through each appointment in the list ad prints various details about each appointment. For each appointment the program prints the ID, Date, Time, Duration and Participants

The program goes through a for loop to go through all the appointments and prints the information in a structured format.

And the program display the information of each appointment separately.