

Clinic Management System

Clinic Management System is programmed in C++, Oracle Database. In the project, we make the management system in which the administrator has a record of patients and staff.

Project Explanation:-

The program starts by asking the user for the admin username and password, if the entered credentials are correct, the user is given further access to the program and moves to the main menu. In the main menu, you can open the patient branch and the doctor branch or quit the program.

1. Patient Menu: Once in the patient menu you can choose to add a new patient, search details of old patients, make appointments, or go back to the main menu.

a. Add new patient: This option moves the program to the `add_patient()` function where the details of the patient are taken as input and written to the file before the end of this function.

b. Search Patient: This option moves the program to the `search_patient()` function where the addhaar number of patients is taken as input and if found in the file the details are printed.

c. Make Appointment: This option moves the program to the `appointment()` function where the addhaar number of patients is taken as input and if the patient is found in the records then his name is pushed into the queue for the appointment.

2. Doctor Menu: In the patient menu we have the option to view pending appointments, to call-in patients for check-ups, to view patient details, and to go back to the main menu.

a. Check Appointment: This prints out the appointment queue if it is not empty and if empty it prints No Appointments

b. Call-in Patient: This first checks if the appointment queue is empty or not if not it asks the user whether if it wants to call in the first patient in the queue or go back to the previous menu. If called-in the program displays all the details available of the patient and then moves to the `add_more()` function where it asks the doctor to enter more details such as disease, medicine, etc. and if admitted to the hospital the doctor name, attendant name, opd number, bed number and then writes these lines to the

file under that user. To do so the complete file content after the patient details are loaded into a vector and then the latest input lines are written to the file, following the content of the vector. And then the name of the patient is removed from the appointment queue.

c. View Patient Details: This option moves the program to the `search_patient()` function where the adhaar number of patients is taken as input and if found in the file the details are printed.