/// PRACTO

#include <stdio.h>

#include <string.h>

#define MAX\_APPOINTMENTS 10

struct Appointment {

char patientName[50];

char doctorName[50];

char date[20];

char time[10];

};

void bookAppointment(struct Appointment appointments[], int \*count) {

if (\*count >= MAX\_APPOINTMENTS) {

printf("Appointment slots are full.\n");

return;

}

printf("Enter Patient Name: ");

scanf(" %[^\n]", appointments[\*count].patientName);

printf("Enter Doctor Name: ");

scanf(" %[^\n]", appointments[\*count].doctorName);

printf("Enter Date (DD/MM/YYYY): ");

scanf("%s", appointments[\*count].date);

printf("Enter Time (HH:MM): ");

scanf("%s", appointments[\*count].time);

(\*count)++;

printf("Appointment booked successfully!\n");

}

void viewAppointments(struct Appointment appointments[], int count) {

if (count == 0) {

printf("No appointments booked.\n");

return;

}

printf("\nList of Appointments:\n");

for (int i = 0; i < count; i++) {

printf("%d. %s with Dr. %s on %s at %s\n", i + 1,

appointments[i].patientName, appointments[i].doctorName,

appointments[i].date, appointments[i].time);

}

}

void cancelAppointment(struct Appointment appointments[], int \*count) {

if (\*count == 0) {

printf("No appointments to cancel.\n");

return;

}

char name[50];

printf("Enter Patient Name to cancel appointment: ");

scanf(" %[^\n]", name);

int found = 0;

for (int i = 0; i < \*count; i++) {

if (strcmp(appointments[i].patientName, name) == 0) {

found = 1;

for (int j = i; j < \*count - 1; j++) {

appointments[j] = appointments[j + 1];

}

(\*count)--;

printf("Appointment for %s canceled successfully!\n", name);

break;

}

}

if (!found) {

printf("No appointment found for %s.\n", name);

}

}

void searchAppointment(struct Appointment appointments[], int count) {

if (count == 0) {

printf("No appointments to search.\n");

return;

}

char name[50];

printf("Enter Patient Name to search: ");

scanf(" %[^\n]", name);

int found = 0;

for (int i = 0; i < count; i++) {

if (strcmp(appointments[i].patientName, name) == 0) {

printf("Appointment found: %s with Dr. %s on %s at %s\n",

appointments[i].patientName, appointments[i].doctorName,

appointments[i].date, appointments[i].time);

found = 1;

break;

}

}

if (!found) {

printf("No appointment found for %s.\n", name);

}

}

int main() {

struct Appointment appointments[MAX\_APPOINTMENTS];

int count = 0;

int choice;

while (1) {

printf("\nPracto Appointment System\n");

printf("1. Book an Appointment\n");

printf("2. View Appointments\n");

printf("3. Cancel an Appointment\n");

printf("4. Search for an Appointment\n");

printf("5. Exit\n");

printf("Enter your choice: ");

scanf("%d", &choice);

switch (choice) {

case 1:

bookAppointment(appointments, &count);

break;

case 2:

viewAppointments(appointments, count);

break;

case 3:

cancelAppointment(appointments, &count);

break;

case 4:

searchAppointment(appointments, count);

break;

case 5:

printf("Exiting... Thank you!\n");

return 0;

default:

printf("Invalid choice. Try again.\n");

}

}

return 0;

}