**STUDENT REGISTRATION SYSTEM**

**Source code:**

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <windows.h>

// Structure of the student

Struct student {

Char register\_number[20];

Char name[50];

Int age;

Char dob[11]; // Date of Birth in “YYYY-MM-DD” format

Char gender[10];

Char course[50];

Char admission\_category[30];

Char scholar\_hosteller[15];

Char address[100];

Char mobile[15];

Char email[50];

Char feedback[200]; // For feedback

};

Struct student s;

// Size of the structure

Long int size = sizeof(s);

// In the start coordinates

COORD cord = {0, 0};

// Function to set the coordinates

Void gotoxy(int x, int y) {

Cord.X = x;

Cord.Y = y;

SetConsoleCursorPosition(GetStdHandle(STD\_OUTPUT\_HANDLE), cord);

}

FILE \*fp, \*ft;

// Function to add the student records

Void addrecord() {

System(“cls”);

Fseek(fp, 0, SEEK\_END);

Char another = ‘y’;

While (another == ‘y’) {

Printf(“\nEnter Register Number: “);

Scanf(“%s”, s.register\_number);

Printf(“\nEnter Name: “);

Scanf(“%s”, s.name);

Printf(“\nEnter Age: “);

Scanf(“%d”, &s.age);

Printf(“\nEnter Date of Birth (YYYY-MM-DD): “);

Scanf(“%s”, s.dob);

Printf(“\nEnter Gender: “);

Scanf(“%s”, s.gender);

Printf(“\nEnter Course Allotted: “);

Scanf(“%s”, s.course);

Printf(“\nEnter Admission Category: “);

Scanf(“%s”, s.admission\_category);

Printf(“\nDay Scholar/Hosteller: “);

Scanf(“%s”, s.scholar\_hosteller);

Printf(“\nEnter Address: “);

Getchar(); // To consume newline

Fgets(s.address, sizeof(s.address), stdin);

s.address[strcspn(s.address, “\n”)] = 0; // Remove newline character

printf(“\nEnter Mobile Number: “);

scanf(“%s”, s.mobile);

printf(“\nEnter Email ID: “);

scanf(“%s”, s.email);

fwrite(&s, size, 1, fp);

printf(“\nWant to add another record (Y/N): “);

fflush(stdin);

another = getchar();

}

}

// Function to delete the student records

Void deleterecord() {

System(“cls”);

Char register\_number[20];

Char another = ‘y’;

While (another == ‘y’) {

Printf(“\nEnter Register Number to delete: “);

Scanf(“%s”, register\_number);

Ft = fopen(“temp.txt”, “wb”);

Rewind(fp);

While (fread(&s, size, 1, fp) == 1) {

If (strcmp(s.register\_number, register\_number) != 0)

Fwrite(&s, size, 1, ft);

}

Fclose(fp);

Fclose(ft);

Remove(“data.txt”);

Rename(“temp.txt”, “data.txt”);

Fp = fopen(“data.txt”, “rb+”);

Printf(“\nWant to delete another record (Y/N): “);

Fflush(stdin);

Another = getchar();

}

}

// Function to display student records

Void displayrecord() {

System(“cls”);

Rewind(fp); Printf(“\n=====================================================\n”);

Printf(“REGISTER NUMBER\tNAME\tAGE\tDOB\tGENDER\tCOURSE\n”); Printf(“=====================================================\n”);

While (fread(&s, size, 1, fp) == 1) {

Printf(“%s\t%s\t%d\t%s\t%s\t%s\n”, s.register\_number, s.name, s.age, s.dob, s.gender, s.course);

} Printf(“=====================================================\n”);

System(“pause”);

}

// Function to modify student records

Void modifyrecord() {

System(“cls”);

Char register\_number[20];

Char another = ‘y’;

While (another == ‘y’) {

Printf(“\nEnter Register Number to modify: “);

Scanf(“%s”, register\_number);

Rewind(fp);

While (fread(&s, size, 1, fp) == 1) {

If (strcmp(s.register\_number, register\_number) == 0) {

Printf(“\nEnter new Name: “);

Scanf(“%s”, s.name);

Printf(“\nEnter new Age: “);

Scanf(“%d”, &s.age);

Printf(“\nEnter new DOB (YYYY-MM-DD): “);

Scanf(“%s”, s.dob);

Printf(“\nEnter new Gender: “);

Scanf(“%s”, s.gender);

Printf(“\nEnter new Course Allotted: “);

Scanf(“%s”, s.course);

Printf(“\nEnter new Admission Category: “);

Scanf(“%s”, s.admission\_category);

Printf(“\nDay Scholar/Hosteller: “);

Scanf(“%s”, s.scholar\_hosteller);

Printf(“\nEnter new Address: “);

Getchar(); // To consume newline

Fgets(s.address, sizeof(s.address), stdin);

s.address[strcspn(s.address, “\n”)] = 0;

printf(“\nEnter new Mobile Number: “);

scanf(“%s”, s.mobile);

printf(“\nEnter new Email ID: “);

scanf(“%s”, s.email);

fseek(fp, -size, SEEK\_CUR);

fwrite(&s, size, 1, fp);

break;

}

}

Printf(“\nWant to modify another record (Y/N): “);

Fflush(stdin);

Another = getchar();

}

}

// Function to add feedback

Void addfeedback() {

System(“cls”);

Char register\_number[20];

Char another = ‘y’;

While (another == ‘y’) {

Printf(“\nEnter Register Number to add feedback: “);

Scanf(“%s”, register\_number);

Rewind(fp);

While (fread(&s, size, 1, fp) == 1) {

If (strcmp(s.register\_number, register\_number) == 0) {

Printf(“\nEnter Feedback: “);

Getchar(); // To consume newline

Fgets(s.feedback, sizeof(s.feedback), stdin);

s.feedback[strcspn(s.feedback, “\n”)] = 0;

fseek(fp, -size, SEEK\_CUR);

fwrite(&s, size, 1, fp);

break;

}

}

Printf(“\nWant to add feedback for another student (Y/N): “);

Fflush(stdin);

Another = getchar();

}

}

// Function to display feedback

Void displayfeedback() {

System(“cls”);

Rewind(fp); Printf(“\n=====================================================\n”);

Printf(“REGISTER NUMBER\tNAME\tFEEDBACK\n”); Printf(“=====================================================\n”);

While (fread(&s, size, 1, fp) == 1) {

Printf(“%s\t%s\t%s\n”, s.register\_number, s.name, s.feedback);

} Printf(“=====================================================\n”);

System(“pause”);

}

// Driver code

Int main() {

Int choice;

// Opening the file

Fp = fopen(“data.txt”, “rb+”);

// Showing error if file is unable to open.

If (fp == NULL) {

Fp = fopen(“data.txt”, “wb+”);

If (fp == NULL) {

Printf(“\nCannot open file…”);

Exit(1);

}

}

System(“Color 3F”);

Printf(“\nStudent Registration System\n”);

Printf(“============================\n”);

While (1) {

System(“cls”);

Gotoxy(30, 10);

Printf(“1. ADD STUDENT RECORD\n”);

Gotoxy(30, 12);

Printf(“2. DELETE STUDENT RECORD\n”);

Gotoxy(30, 14);

Printf(“3. DISPLAY STUDENT RECORDS\n”);

Gotoxy(30, 16);

Printf(“4. MODIFY STUDENT RECORD\n”);

Gotoxy(30, 18);

Printf(“5. ADD FEEDBACK\n”);

Gotoxy(30, 20);

Printf(“6. DISPLAY FEEDBACK\n”);

Gotoxy(30, 22);

Printf(“7. EXIT\n”);

Gotoxy(30, 24);

Printf(“ENTER YOUR CHOICE: “);

Fflush(stdin);

Scanf(“%d”, &choice);

Switch (choice) {

Case 1:

Addrecord();

Break;

Case 2:

Deleterecord();

Break;

Case 3:

Displayrecord();

Break;

Case 4:

Modifyrecord();

Break;

Case 5:

Addfeedback();

Break;

Case 6:

Displayfeedback();

Break;

Case 7:

Fclose(fp);

Exit(0);

Break;

Default:

Printf(“\nINVALID CHOICE…\n”);

}

}

Return 0;

}