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Class : CE(2) C - Batch

Medical Patient Directory

1. Research

This project is created using the C language. The purpose of this project is to make a directory for patients and also for their doctor to see their previous medical history and then diagnose them properly .

The research on this topic is done on sites like :

- <https://kidshealth.org/en/parents/medhist.html>
- <https://www.scphealth.com/blog/think-with-your-ink-4-reasons-why-proper-medical-record-documentation-is-vital/>
- <http://understandingpatientdata.org.uk/why>

2. Analysis

- To create an interface for taking the patient's medical history as input and then also accessing it via name, ID
- Use concepts of C such as loops , conditional statements, structures , etc
- Improve it continuously through users feedback

3.Ideate

The idea is to create a directory(in short a database) for both the doctor and patient to access patients past health history and doctors and also perfectly diagnose their condition and patients can also see their medical history.

4.Build

```
#include <stdio.h>

struct Patient {
    int id;
    char name[50];
    char phone[15];
};

int main() {
    struct Patient p[100];
    int n, i, searchId;
    int found = 0;

    printf("How many patients to enter? ");
    scanf("%d", &n);
    if (n > 100) n = 100;

    for (i = 0; i < n; i++) {
        printf("Patient %d ID: ", i + 1);
        scanf("%d", &p[i].id);

        printf("Patient %d Name: ", i + 1 );
        scanf("%s", p[i].name);

        printf("Patient %d Phone: ", i + 1 );
        scanf("%s", p[i].phone);
    }
}
```

```

printf("\nEnter patient ID to get information: ");
scanf("%d", &searchId);

for (i = 0; i < n; i++) {
    if (p[i].id == searchId) {
        printf("\nPatient info:\n");
        printf("ID : %d\n", p[i].id);
        printf("Name : %s\n", p[i].name);
        printf("Phone: %s\n", p[i].phone);
        found = 1;
        break;
    }
}

if (!found) {
    printf("No patient found with ID %d\n", searchId);
}

return 0;
}

```

5. Testing

CASE 1 : Normal Testing

How many patients to enter? 1

Patient 1 ID: 1

Patient 1 Name: er

Patient 1 Phone: 94

Enter patient ID to get information: 1

Patient info:

ID : 1

Name : er

Phone: 94

CASE 2 : If the patient is not in the data base

How many patients to enter? 2

Patient 1 ID: 1

Patient 1 Name: e

Patient 1 Phone: 3

Patient 2 ID: 2

Patient 2 Name: r

Patient 2 Phone: 4

Enter patient ID to get information: 3

No patient found with ID 3