File Organization

HOSPITAL SYSTEM

01

About the project

What are we working on?

DataSet

Our DataSet Is about PATIENT.

Functions

In Our Project we made clear Function for Text files.

Bonus

We used Variable length as to be records more flexiable with us.

Functions

These Function For Both Data: Manager & Employee.

- ADD.
- DISPLAY ALL DATA.
- SEARCH BY ID.
- Search by name.
- DELETE RECORDS.
- UPDATE.
- Clear.
- Exit

Variable Length Record

Based on the length of the record after update:

If less than or equal the old one → add in same place (preserve the old size)

If larger than the old one → perform update as : deletion followed by addition.

Fundamental File Structure Concepts:

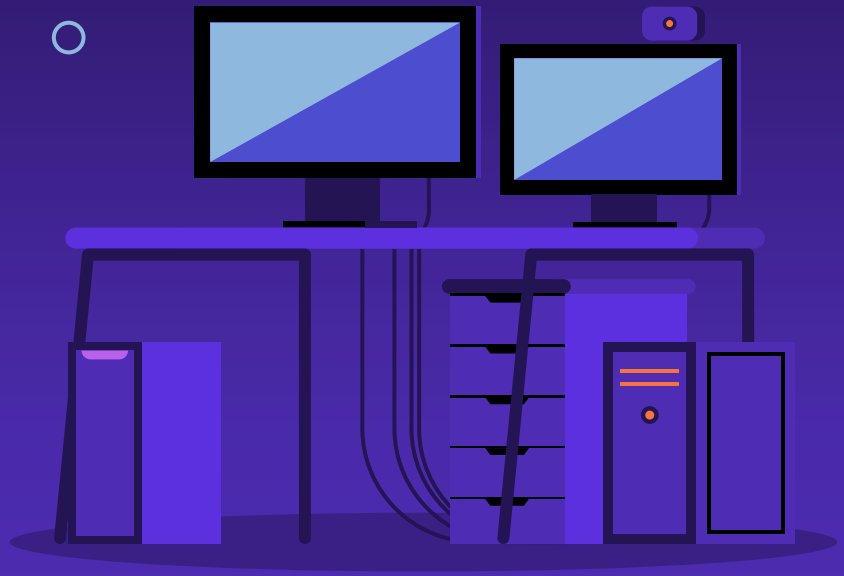
We use some operations like: Read, Write, TellG, TellP, SeekG, SeekP ,OffSet And So on.....For Specific Process.

MORE DETAILS

1.ADD FUNCTION

In Add Function We must check If There Deleted Record Before

If RETURN yes will ADD in The Record Deleted if No Will ADD at The End.



2.DISPLAY FUNCTION

In Display Function We Display All Records Of Data We Saved.

We Check First if They Are Data In File or not If NOT will print” not found.”

3.Search By ID

Note:
We Use Binary Search To Get The ID That User Enter(offset)

In Search Function We Display Data of one record Who has This ID.

We Check First if This ID In Our Data or not If NOT will print>>>”NOT FOUND”.

4.Search By Name

FIRST USE COMPARE FUN IF RETURN 0=>NOT FOUND.

4.DELETE RECORD

In Delete Function we can Delete Record Or More by Enter ID(delete from prim key&sec index).

We Check First if This ID In Our Data or not If NOT will print>>>”not found”.

5.UPDATE

In Update Function It just Call Delete Function To Check Then Call ADD fun.

AT The End you
Will Exit .

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