Final Report

Title: Laptop Repair System

C Programming (CSE 101)

By

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DESCRIPTION

In today's fast paced business environment, everyone depends on their computers to run in a reliable and efficient way. Therefore, professional computer repair technicians are essential for any company in order to maintain all the equipment up-to-date and running efficiently.
In this project the admin must be able to add the record of the of client, the record of laptop, part in which problem is, modify/delete the record, the person who will handle that request. We have created 5 different modules in the project which will be available as options to the user:

For adding customer records and laptop details –
        deals with writing of details of customer into a file.
For deleting a record –
        deals with the deletion of customer record after
        completion of work.
For displaying the records –
        deals with display of all records.
For updating the records –
        deals with the change in records if want.
Exit

All the functions will be provided under switch cases. The idea is to use the concepts of File Handling to write the data in a text file and read the written data as well.

In this way, we have built a software to handle the primary housekeeping functions for a laptop repair shop and it also helps to keep track of all the clients and their records.

INPUT

```c
36    void addrecord()
37    {
38        system("cls");
39        fseek(fp, 0, SEEK_END);
40        char another = 'y';
41
42        while (another == 'y')
43        {
44            printf("\nEnter Name : ");
45            scanf("%s",e.name);
46
47            printf("\nEnter Laptop Details : ");
48            scanf("%s", e.laptop);
49
50            printf("\nEnter Defective Part : ");
51            scanf("%s", e.problem);
52
53            printf("\nEnter Mobile No : ");
54            scanf("%lli", &e.mob_no);
55
56            fwrite(&e, size, 1, fp);
57
58            printf("\nWant to add another record (Y/N) : ");
59            fflush(stdin);
60
61            scanf("%c", &another);
62        }
63    }
64
```

```c
103          // sets pointer to start of the file
104          rewind(fp);
105
106          printf("\n========================"
107                  "========================"
108                  "======");
109          printf("\nNAME\t\tLAPTOP\t\tPROBLEM\t\tMOBILE NO\n",
110                  e.name, e.laptop, e.problem, e.mob_no);
111          printf("========================"
112                  "========================"
113                  "====\n");
114
115          while (fread(&e, size, 1, fp) == 1)
116              printf("\n%s\t\t%s\t\t%s\t\t%lli", e.name, e.laptop, e.problem, e.mob_no);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
1. ADD RECORD

2. DELETE RECORD

3. DISPLAY RECORDS

4. MODIFY RECORD

5. EXIT

ENTER YOUR CHOICE...
```

Ln 146, Col 57   Spaces: 4   UTF-8   CRLF   C   Win32

```c
131              printf("\nEnter client name to modify : ");
132              scanf("%s", clientname);
133
134              rewind(fp);
135
136              // While File is open
137              while (fread(&e, size, 1, fp) == 1)
138              {
139                  // Compare the client name with ename
140                  if (strcmp(e.name, clientname) == 0)
141                  {
142                      printf("\nEnter new Name : ");
143                      scanf("%s",e.name);
144                      printf("\nEnter new Laptop Details : ");
145                      scanf("%s", e.laptop);
146                      printf("\nEnter new Defective Part : ");
147                      scanf("%s",e.problem);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
Enter Name : Mihir

Enter Laptop Details : Lenovo

Enter Defective Part : Display

Enter Mobile No : 7645290156

Want to add another record (Y/N) : n
```

Ln 146, Col 57   Spaces: 4   UTF-8   CRLF   C   Win32

OUTPUT

```c
229        // Switch Case
230        switch (choice) {
231        case 1:
232
233            // Add the records
234            addrecord();
235            break;
236
237        case 2:
238
239            // Delete the records
240            deleterecord();
241            break;
242
243        case 3:
244
245            // Display the records
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
=====================================================
NAME          LAPTOP         PROBLEM        MOBILE NO
=====================================================


Mihir         Lenovo         Display        7645290156
Dinesh        Apple          CPU            7645529014
Satyan        Asus           Motherboard        6207855443
Nandhana           Dell           Speakers           8757345678



Press any key to continue . . .
```

Ln 122, Col 33   Spaces: 4   UTF-8   CRLF   C   Win32