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[For Teachers use only: Don't Write Anything inside this box]

Lab Project Status

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Comments:

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Chapter 1

Introduction

1.1 Introduction

Mobile store management System is a software solution for tracking and managing Mobile data. (M.S.M.S) is specifically designed for mobile's basic information settings, and its many features enable shop's efficient functioning on a daily basis. The computerization of the mobile record will improve the efficiency and reduce human stress, and also indirectly improving the human recourses. This system helps the user to easily access through all the information about mobiles.

1.2 Design Goals/Objective

- The main focus of this project is to reduce time and lessen human efforts.
- To provide a user-friendly environment where a user can be serviced better easy.
- To gathers all the valuable mobile-related information on a single platform, enables quick retrieval of essential data, and filters their availability by the access level.
- To keep all the information organized and keep them in a batter place, and reduce the chance of mistake.

○

Chapter 2

2.1 Mobile store management System

The Mobile Store Management System I made using C program will be look like this.

2.1.1 Interface

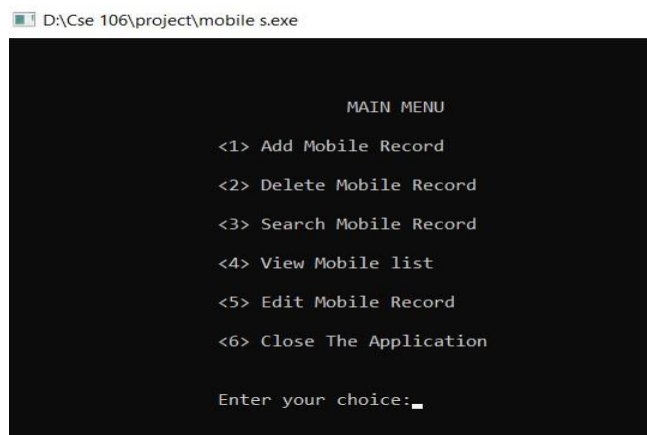


Figure 2.1: S.R.S.

2.2 Algorithm

Step 1: Start.

Step 2: Declare a Structure data type named staff to store different types of variables under a single datatype.

Step 3: Declare 4-character type array named as name [], ID [], available [], stname [].

Step4: And we use system("CLS") to clear the output box.

Step 5: In the main function we show users the option which he wants to work on.

- 1 for Add mobile
- 2 for Delete Mobile.
- 3 for Search Mobile List.
- 4 for View Mobile List.
- 5 for Modify Mobile list.

- 6 to close application.

Step 6: Get a choice from users.

Step 7: Use a switch case with the value from users.

Step 8: case '1' then call addstaff() function for add data and then break.

Step 9: case '2' then call deletestaff() function for delete data and then break.

Step 10: case '3' then call searchstaff() function for search data and then break.

Step 11: case '4' then call viewstaff() function for view data and then break.

Step 12: case '5' then call editstaff() function for edit data and then break.

Step 13: case '6' close the application:

Step 14: default ("Invalid input. Please try again."); then break;

Step 15: Named a function called addstaff().

Step 16: In the definition of the function, We get the information of a mobile's name, ID, quantity, price, availability from users using gets() library function

Step 17: Increase l++

Step 18: Named function called deletestaff().

Step 19: In the definition of the function, we read the name or id to check that information.

Step 20: If any of the information match the function will clear the value in that variable by remove () function.

Step 21: Named a function called `searchstaff ()`.

Step 22: In the definition of the function, we read the information about that mobile and then search by Id or Name. If those information match any of the value in the variable, then print the mobile is available. And if the information didn't match then it will print that "The Search Information not found on the record"

Step 23: Named a function called `viewstaff ()`.

Step 24: In the definition of the function, we show all the value we get from users. By opening the file Mobile list. Print Brand, Id, mobile name, Availability, Quantity, Price.

Step 25: Named a function called `editstaff()`.

Step 26: In the definition of the function, read name or ID that if it's match any of the mobile's information. Then update the information by getting new value from user.

Step27: Declare a return function to return all information about mobile to the main function.

Step 28: End.

2.3 Implementation of the Project:

```
mobile s.cpp
1  #include<windows.h>
2  #include<stdio.h>
3  #include<conio.h>
4  #include <stdlib.h>
5  #include<string.h>
6  #include<ctype.h>
7  #define RETURNTIME 15
8
mobile s.cpp
10 char catagories[][15]={"Samsung", "Apple", "Xiaomi", "Vivo", "OPPO", "Tecno"};
11
12 void returnfunc(void);
13
14 void mainmenu(void);
15
16 void addstaff(void);
17
18 void deletestaff(void);
19
20 void editstaff(void);
21
22 void searchstaff(void);
23
24 void viewstaff(void);
25
26 void closeapplication(void);
27
28 int getdata();
29
30 int checkid(int);
31
32 int t(void);
33
34 void Password();
35
36 void issuerecord();
37
38 void loaderanim();
39
```

mobile.s.cpp

```

40
41 FILE *fp,*ft,*fs;
42
43 COORD coord = {0, 0};
44
45 int s;
46
47 char findstaff;
48
49 char password[10]="pass";
50
51
52 void gotoxy (int x, int y)
53
54 {
55
56     coord.X = x; coord.Y = y;
57
58     SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);
59
60 }
61
62 struct staff
63
64 {
65
66     int id;
67
68     char sname[20];
69
70     char name[20];
71
72     char available[20];
73
74     int qty;
75
76     int price;
77
78     int count;
79
80     char *cat;
81
82 };

```

[*] mobile.s.cpp

```

85
86     int main()
87
88     {
89
90         getch();
91
92         return 0;
93     }
94
95     void mainmenu()
96
97     {
98
99         system("cls");
100
101         int i;
102
103         gotoxy(20,3);
104         printf(" \t\tMAIN MENU \n ");
105         gotoxy(20,5);
106         printf("<1> Add Mobile Record  ");
107         gotoxy(20,7);
108         printf("<2> Delete Mobile Record");
109
110         gotoxy(20,9);
111
112         printf("<3> Search Mobile Record");
113
114         gotoxy(20,11);
115
116         printf("<4> View Mobile list");
117
118         gotoxy(20,13);
119
120         printf("<5> Edit Mobile Record");
121
122         gotoxy(20,15);
123
124         printf("<6> Close The Application");
125
126         gotoxy(20,22);
127
128         t();
129
130         gotoxy(20,18);
131         printf("Enter your choice:");
132
133

```



```

[*] mobile s.cpp
141 switch(getch())
142 {
143
144
145     case '1':
146         addstaff();
147
148         break;
149
150     case '2':
151         deletestaff();
152
153         break;
154
155     case '3':
156         searchstaff();
157
158         break;
159
160     case '4':
161         viewstaff();
162
163         break;
164
165     case '5':
166         editstaff();
167
168         break;
169
170     case '6':
171     {
172         system("cls");
173         gotoxy(16,3);
174         printf("\tThank You");
175         gotoxy(16,4);
176         exit(0);
177     }
178
179
180
181
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```

[*] mobile s.cpp

```

333     printf("The Mobile record is available");
334
335     gotoxy(10,8);
336
337     printf("Staff name is %s",a.name);
338
339     gotoxy(10,9);
340
341     findstaff='t';
342
343 }
344
345 }
346
347 if(findstaff!='t')
348 {
349     gotoxy(10,10);
350
351     printf("No record is found modify the search");
352
353     if(getch())
354         mainmenu();
355 }
356
357 if(findstaff=='t' )
358 {
359     gotoxy(10,9);
360
361     printf("Do you want to delete it?(Y/N):");
362
363     if(getch()=='y')
364     {
365         ft=fopen("test.dat","wb+");
366
367         rewind(fp);
368
369         while(fread(&a,sizeof(a),1,fp)==1)
370         {
371
372
373
374
375
376
377
378
379

```

[*] mobile s.cpp

```

429     }
430
431     gotoxy(10,15);
432
433     mainmenu();
434
435 }
436
437 void searchstaff()
438 {
439     system("cls");
440
441     int d;
442
443     printf("\nSearch Mobile\n");
444
445     gotoxy(20,10);
446
447     printf("1. Search By ID");
448
449     gotoxy(20,14);
450
451     printf("2. Search By Name");
452
453     gotoxy( 15,20);
454
455     printf("Enter Your Choice");
456
457     fp=fopen("stf.dat","rb+");
458
459     rewind(fp);
460
461     switch(getch())
462     {
463
464     case '1':
465
466
467
468
469

```

```

[*] mobile s.cpp
381
382     if(a.id!=d)
383     {
384
385         fseek(ft,0,SEEK_CUR);
386
387         fwrite(&a,sizeof(a),1,ft);
388
389     }
390
391 }
392
393 fclose(ft);
394
395 fclose(fp);
396
397 remove("stf.dat");
398
399 rename("test.dat","stf.dat");
400
401 fp=fopen("stf.dat","rb+");
402
403 if(findstaff=='t')
404 {
405
406     gotoxy(10,10);
407
408     printf("The record is sucessfully deleted");
409
410     gotoxy(10,11);
411
412     printf("\n\tDelete another record?(Y/N)");
413
414 }
415
416 }
417
418 else
419
420 mainmenu();
421
422 fflush(stdin);
423
424 another=getch();
425
426 }
427

```

```

[*] mobile s.cpp
468 case '1':
469 {
470
471     system("cls");
472
473     gotoxy(25,4);
474
475     printf("Search Mobile By Id");
476
477     gotoxy(20,5);
478
479     printf("Enter the Mobile id:");
480
481     scanf("%d",&d);
482
483     gotoxy(20,7);
484
485     while(fread(&a,sizeof(a),1,fp)==1)
486     {
487
488         if(a.id==d)
489         {
490
491             Sleep(2);
492
493             gotoxy(20,6);
494
495             printf("The Mobile is available\n");
496
497             gotoxy(20,8);
498
499             printf("ID:%d",a.id);
500
501             gotoxy(20,9);
502
503             printf("Brand:%s",a.cat);
504
505             gotoxy(20,10);
506
507             printf("Name:%s",a.name);
508
509             gotoxy(20,11);
510
511             printf("Availability:%s ",a.available);
512
513
514

```

```

[*] mobile s.cpp
516 gotoxy(20,12);
517
518 printf("Quantity:%i ",a.qty);
519
520 gotoxy(20,13);
521
522 printf("Price:%i ",a.price);
523
524 gotoxy(20,14);
525
526 findstaff='t';
527
528 }
529
530 }
531
532 }
533
534 if(findstaff!='t')
535 {
536
537     printf("\aNo Record Found");
538
539 }
540
541 gotoxy(20,17);
542
543 printf("Try another search?(Y/N)");
544
545 if(getch()=="y")
546 searchstaff();
547
548 else
549
550 mainmenu();
551
552 break;
553
554 }
555
556 }

```

```

[*] mobile s.cpp
558 case '2':
559 {
560
561     char s[15];
562
563     system("cls");
564
565     gotoxy(25,4);
566
567     printf("\nSearch Mobile By Name\n");
568
569     gotoxy(20,5);
570
571     printf("Enter Mobile Name:");
572
573     scanf("%s",s);
574
575     int d=0;
576
577     while(fread(&a,sizeof(a),1,fp)==1)
578     {
579
580         if(strcmp(a.name,(s))==0)
581         {
582
583             gotoxy(20,d+7);
584
585             printf("The Staff is available");
586
587             gotoxy(20,d+8);
588
589             printf("ID:%d",a.id);
590
591             gotoxy(20,d+10);
592
593             printf("Name:%s",a.name);
594
595             gotoxy(20,d+11);
596
597             printf("Availability:%s",a.available);
598
599             gotoxy(20,d+12);
600
601             printf("Quantity:%i",a.qty);
602
603
604

```

```

['] mobile s.cpp
606     gotoxy(20,d+13);
607     printf("Price:%i",a.price);
608
609     gotoxy(20,d+14);
610
611     getch();
612
613     d+=6;
614
615 }
616
617
618
619
620 }
621
622 if(d==0)
623
624
625 printf("\aNo Record Found");
626
627
628
629 gotoxy(20,d+11);
630
631 printf("Try another search?(Y/N)");
632
633
634 if(getch()=='y')
635
636     searchstaff();
637
638 else
639
640     mainmenu();
641
642 break;
643
644 }
645
646 default :
647
648     getch();
649
650     searchstaff();
651
652 }

['] mobile s.cpp
654     fclose(fp);
655 }
656
657
658
659 void viewstaff(void)
660 {
661
662     int i=0,j=4;
663
664     system("cls");
665
666     gotoxy(1,1);
667
668     printf("\n Mobile List \n");
669
670     gotoxy(2,2);
671
672     printf("  BRAND      ID      MODEL NAME      AVAILABILITY  QUANTITY  PRICE ");
673
674     fp=fopen("stf.dat","rb");
675
676     while(fread(&a,sizeof(a),1,fp)==1)
677     {
678
679         gotoxy(3,j);
680
681         printf("%s",a.cat);
682
683         gotoxy(16,j);
684
685         printf("%d",a.id);
686
687         gotoxy(22,j);
688
689         printf("%s",a.name);
690
691         gotoxy(36,j);
692
693         printf("%s",a.availability);
694
695         gotoxy(50,j);
696
697         printf("%i",a.qty);
698
699
700

```


[*] mobile s.cpp	[*] mobile s.cpp
702 gotoxy(61,j);	750 fp=fopen("stf.dat","rb+");
703	751
704 printf("%i",a.price);	752 while(fread(&a,sizeof(a),1,fp)==1)
705	753 {
706 gotoxy(60,j);	754 {
707	755 if(checkid(d)==0)
708 printf("\n\n");	756 {
709	757
710 j++;	758 {
711	759 gotoxy(15,7);
712 }	760
713	761 printf("The Mobile is availble");
714 fclose(fp);	762
715	763 gotoxy(15,8);
716 gotoxy(35,25);	764
717	765 printf("The Mobile ID:%d",a.id);
718 returnfunc();	766
719 }	767 gotoxy(15,9);
720 }	768
721	769 printf("Enter new name:");
722 void editstaff(void)	770
723 {	771
724 {	772 scanf("%s",a.name);
725	773
726 system("cls");	774 gotoxy(15,10);
727	775
728 int c=0;	776 printf("Enter new Availability Status:");
729	777
730 int d,e;	778 scanf("%s",a.available);
731	779
732 gotoxy(20,4);	780 gotoxy(15,11);
733	781
734 printf("Edit Mobile Section");	782 printf("Enter new Quantity:");
735	783
736 char another='y';	784 scanf("%i",&a.qty);
737	785
738 while(another=='y')	786 gotoxy(15,12);
739	787
740 {	788 printf("Enter new Price:");
741	789
742 system("cls");	790 scanf("%i",&a.price);
743	791
744 gotoxy(15,6);	792 gotoxy(15,13);
745	793
746 printf("Enter id to be edited:");	794 printf("The record is modified");
747	795
748 scanf("%d",&d);	796 fseek(fp,ftell(fp)-sizeof(a),0);
[*] mobile s.cpp	[*] mobile s.cpp
798 fwrite(&a,sizeof(a),1,fp);	843
799	844 a:
800 fclose(fp);	845
801	846 if(getch()==13)
802 c=1;	847
803	848 mainmenu();
804 }	849
805	850 else
806 if(c==0)	851 goto a;
807	852
808 {	853 }
809	854
810 gotoxy(15,9);	855
811	856 int getdata()
812 printf("No record found");	857 {
813	858
814 }	859
815	860 int t;
816 }	861
817	862 gotoxy(20,3);
818 gotoxy(15,16);	863
819	864 printf("Enter the Information Below");
820 printf("Modify another Record?(Y/N)");	865
821	866 gotoxy(20,4);
822 fflush(stdin);	867
823	868 printf("Brand:");
824 another=getch();	869
825	870 gotoxy(31,5);
826 }	871
827	872 printf("%s",catagories[s-1]);
828 returnfunc();	873
829 }	874 gotoxy(21,6);
830	875
831	876 printf("MBL ID:\t");
832 void returnfunc(void)	877
833	878 gotoxy(30,6);
834 {	879
835	880 scanf("%d",&t);
836 {	881
837	882 if(checkid(t) == 0)
838	883 {
839 gotoxy(15,20);	884
840 printf("Press ENTER to return to main menu");	885
841	886 gotoxy(21,13);
842 }	887
	888 printf("\aThe id already exists\a");

```

931 |
932 | }
933 |
934 | int checkid(int t)
935 | {
936 | {
937 |     rewind(fp);
938 |     while(fread(&a,sizeof(a),1,fp)==1)
939 |     {
940 |         if(a.id==t)
941 |         {
942 |             return 0;
943 |         }
944 |         return 1;
945 |     }
946 | }
947 |
948 | int t(void)
949 | {
950 | {
951 |     return 0 ;
952 | }
953 | }
954 |
955 | void Password(void)
956 | {
957 |     system("cls");
958 |     int i=0,j;
959 |     mainmenu();
960 | }
961 |
962 |
963 |
964 |
965 |
966 |
967 |

```

```

[*] mobile s.cpp
888 | printf("\aThe id already exists\a");
889 |
890 | getch();
891 |
892 | mainmenu();
893 |
894 | return 0;
895 |
896 | }
897 |
898 | a.id=t;
899 |
900 | gotoxy(21,7);
901 |
902 | printf("Model Name:");
903 |
904 | gotoxy(33,7);
905 |
906 | scanf("%s",a.name);
907 |
908 | gotoxy(21,8);
909 |
910 | printf("Availability:");
911 |
912 | gotoxy(35,8);
913 |
914 | scanf("%s",a.available);
915 |
916 | gotoxy(21,9);
917 |
918 | printf("Quantity:");
919 |
920 | gotoxy(31,9);
921 |
922 | scanf("%i",&a.qty);
923 |
924 | gotoxy(21,10);
925 |
926 | printf("Price:");
927 |
928 | scanf("%i",&a.price);
929 |
930 | return 1;
931 |
932 | }

```

✚ This is the Source code of Mobile Store Management System.

Chapter 3

Performance Evaluation

3.1 Results and Discussions

3.1.1 Output

✚ This is the main panel of the system. From there can do any of the following option.

```
D:\Cse 106\project\mobile s.exe

MAIN MENU

<1> Add Mobile Record
<2> Delete Mobile Record
<3> Search Mobile Record
<4> View Mobile list
<5> Edit Mobile Record
<6> Close The Application

Enter your choice: _
```

✚ If the user enter 1 then the output will be look like that:

```
D:\Cse 106\project\mobile s.exe

SELECT BRANDS

<1> Samsung
<2> Apple
<3> Xiaomi
<4> Vivo
<5> OPPO
<6> Tecno
<7> Back to main menu

Enter your choice: _
```

✚ If User choice any of this and enter information than output will be look like that.

 D:\Cse 106\project\mobile s.exe

```
Enter the Information Below
Brand:
    Samsung
MBL ID: 11
Model Name: A23
Availability: Yes
Quantity: 7
Price:23550
```

✚ Option 2 is for Delete record of a specific mobile information

```
Enter the Id to delete:22

The Mobile record is available
Staff name is Iphone13pro
Do you want to delete it?(Y/N):
The record is sucessfully deleted

Delete another record?(Y/N)
```

✚ Option 3 is for Search an information about a mobile:

```
Search Mobile By Id
Enter the Mobile id:44
The Mobile is available

ID:44
Brand:Vivo
Name:X80
Availability:Yes
Quantity:3
Price:82000

Try another search?(Y/N)
```


Option 4 is for view all Mobile list:

D:\Cse 106\project\mobile s.exe

M BRAND	ID	MODEL NAME	AVAILABILITY	QUANTITY	PRICE
Samsung	11	A23	Yes	7	23550
Apple	22	Iphone13	No	0	82000
Xiaomi	33	MI11	Yes	5	33000
Vivo	44	X80	Yes	3	82000
OPPO	55	Reno6	yes	4	36000
Tecno	66	Camon19	yes	7	29000

Press ENTER to return to main menu.

Option 5 is for Edit Mobile list:

```
Enter id to be edited:22
The Mobile is availble
The Mobile ID:22
Enter new name:Iphone13pro
Enter new Availability Status:yes
Enter new Quantity:5
Enter new Price:119000
The record is modified

Modify another Record?(Y/N)
```

Option 6 is for Close the application:

D:\Cse 106\project\mobile s.exe

```
Thank You

-----
Process exited after 495.4 seconds with return value 0
Press any key to continue . . .
```

3.1.2 Analysis and Outcome

The project is build using C programming language. We do the coding on Dev-C++ using GCC compiler. This project is mainly built for reduce the pressure and do the work efficiently. We will update this project and add more feature. It will be helpful for all the shop owners. So fer we do the project using the course knowledge of Data structure programming.

Chapter 4

Conclusion

4.1 Introduction

Mobile store management System is a software solution for tracking and managing Mobile data. (M.S.M.S) is specifically designed for mobile's basic information settings, and its many features enable shop's efficient functioning on a daily basis. The computerization of the mobile record will improve the efficiency and reduce human stress, and also indirectly improving the human recourses. This system helps the user to easily access through all the information about mobiles.

4.2 Practical Implications

The Mobile store management System helps the user to easily access through all the information about mobiles.

4.3 Scope of Future Work

In future this can be the most useful product for the shops and distributors. It will keep the mobile's information safe and synchronized. In future we can add more feature to this. Like add detailed configuration of a mobile, billing history of a shop. This system can reduce the mistake and work more efficiently. In this way it can be helpful for our work.