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FRESHMAN ENGINEERING DEPARTMENT

A Project Based Lab Report

On

Movie Tickets Booking

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CERTIFICATE

This is to certify that the project-based laboratory report entitled “Movie Ticket Booking” submitted by Mr./Ms. **M. HEMANTH SURYA PRASAD, U. HARSHAD, S. V J S N S L KHOWSHIKK SHARMA, S.TARUN KUMAR** bearing Regd.ID.no **2200031945,2200031951 2200031954,2200031955** to the **Department of Computer Science Engineering, KL University** in partial fulfillment of the requirements for the completion of a project-based Laboratory in “COMPUTATIONAL THINKING FOR STRUCTURED DESIGN” course in I B Tech I Semester, is a bonafide record of the work carried out by him/her under my supervision during the academic year 2022 – 2023.

PROJECT SUPERVISOR

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ABSTRACT

The Project "Movie Ticket Booking" deals with the automation of booking. This software will help salespersons in managing the various types of Records about his/her customer. The ticket will help the user to work highly effectively.

Salespersons have been recording customer information in the past and even in the present through their manual efforts. And indeed, it consumes their considerable time and energy that could be utilized in better productive activities. Apart from that, with increasing customer Strength, the task of managing the information of each customer is indeed a cumbersome task.

There is a lot of reason for the introduction of this project. In the manual System, there are several inefficiencies that a salesperson faces. Information retrieval is one of the foremost problems. It is very difficult to gather the overall performance reports of the customer. Large records-books have to be maintained where relevant and irrelevant information has to be stored which is a very untidy and clumsy process.

On the other hand, many inherent problems exist in any manual system. Usually, they lack efficiency. Less efficiency has a great impact on the productivity of any human being keeping the data up-to-date.

The4 automation deals with all such problems and tries to remove them in the best suitable fashion. The new system will cater to the need of the salespersons of any supermarket so that they can manage the system efficiently.

This is a movie ticket booking system in C language. We can add new movie tickets, book tickets, view the movies, and cancel booked tickets. We can also see the old transactions. The user needs to enter the correct password to add a new movie. All details of the movie are collected including the price of the ticket. When a user wants to book a ticket his details are collected and written into a file for future reference.

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INTRODUCTION

The primary purpose of the online ticket booking system is to provide another way for the customer to buy a cinema ticket. It is an automatic system, where we will automate the reservation of tickets and inquiries about the availability of tickets. After inserting the data into the file, staff need not worry about the orders received through the system and hence reducing the manual work. One of the best features of the system is to refund the amount on cancellation of tickets by customers.

The modules in this project are

- To provide an anytime anyplace service for the customer
- To provide refund
- To minimize the number of staff at the ticket box
- To promote the film on the internet
- To increase the profit To obtain statistical information from the booking record

In this project, we have used the concepts of structure, files, and functions to program a ticket booking in C language.

Functions in C

We need functions in C programming and even in other programming languages due to the numerous advantages they provide to the developer. Some of the key benefits of using functions are:

- Enables reusability and reduces redundancy
- Makes a code modular
- Provides abstraction functionality
- The program becomes easy to understand and manage
- Breaks an extensive program into smaller and simpler pieces

Structure in C

Structured programming (sometimes known as modular programming) is a programming paradigm that facilitates the creation of programs with readable code and reusable components. All modern programming languages support structured programming, but the mechanisms of support, like the syntax of the programming languages, vary. Structured programming encourages dividing an application program into a hierarchy of modules or autonomous elements, which may, in turn, contain other such elements. Within each element, code may be further structured using blocks of related logic designed to improve readability and maintainability. Modular programming, which is today seen as synonymous with structured programming, emerged a decade later as it became clear that the reuse of standard code could improve developer productivity. In modular programming, a program is divided into semi-independent modules, each of which is called when needed. C is called structured programming language because a program in c language can be divided into small logical functional modules or structures with the help of function procedures.

Text Files in C

A File is a collection of data stored in secondary memory. So far data has been entered into the programs through the keyboard. So Files are used for storing information that can be processed by the programs. Files are not only used for storing the data, programs are also stored in files. To use

files, we have to learn file input and output operations. That is, how data is read and how to write into a file. A Stream is an important concept in C. The Stream is a common, logical interface to the various devices that comprise the computer. So a Stream is a logical interface to a file. There are two types of Streams, Text Stream, and Binary Stream. A Text File can be thought of as a stream of characters that can be processed sequentially. It can only be processed in the forward direction.

AIM OF PROJECT

It is based on the structures, files, and functions to create a ticket booking with a refund of the paid amount in the cancelation of the ticket. To provide an anytime anyplace service for the customer, provide a refund, minimize the number of staff at the ticket box, promote the film on the internet and increase the profit To obtain statistical information from the booking record

Advantages:-

- A heterogeneous collection of data items: structure allows us to create user-defined data-type which can store items with different data types. For example, if we want to keep students' records with their roll number, name, marks, and address then it comprises items with different types i.e. roll number can be of integer number type, the name is of string type, marks are floating number type and address is of string type.
- Reduced complexity
- Increased productivity: structure in C eliminates many burdens while dealing with records containing heterogeneous data items, thereby increasing productivity.
- Maintainability of code: using structure, we represent complex records by using a single name, which makes code maintainability a breeze.

Disadvantages: -

- A high-level language has to be translated into the machine language by a translator and thus a price in computer time is paid.
- The object code generated by a translator might be inefficient compared to an equivalent assembly language program.
- Data types are proceeds in many functions in a structured program. When changes occur in those data types, the corresponding change must be made to every location that acts on those data types within the program. This is a very time-consuming task if the program is very large.
- Let us consider the case of software development in which several programmers work as a team on an application. In a structured program, each programmer is assigned to build a specific set of functions and data types. Since different programmers handle separate functions that have mutually shared data types. Other programmers in the team must reflect the changes in data types done by the programmer in the data type handled. Otherwise, it requires rewriting several functions.

SYSTEM REQUIREMENTS

➤ SOFTWARE REQUIREMENTS:

The major software requirements of the project are as follows:

Language: Dev C++

Operating system: Windows 10 or later.

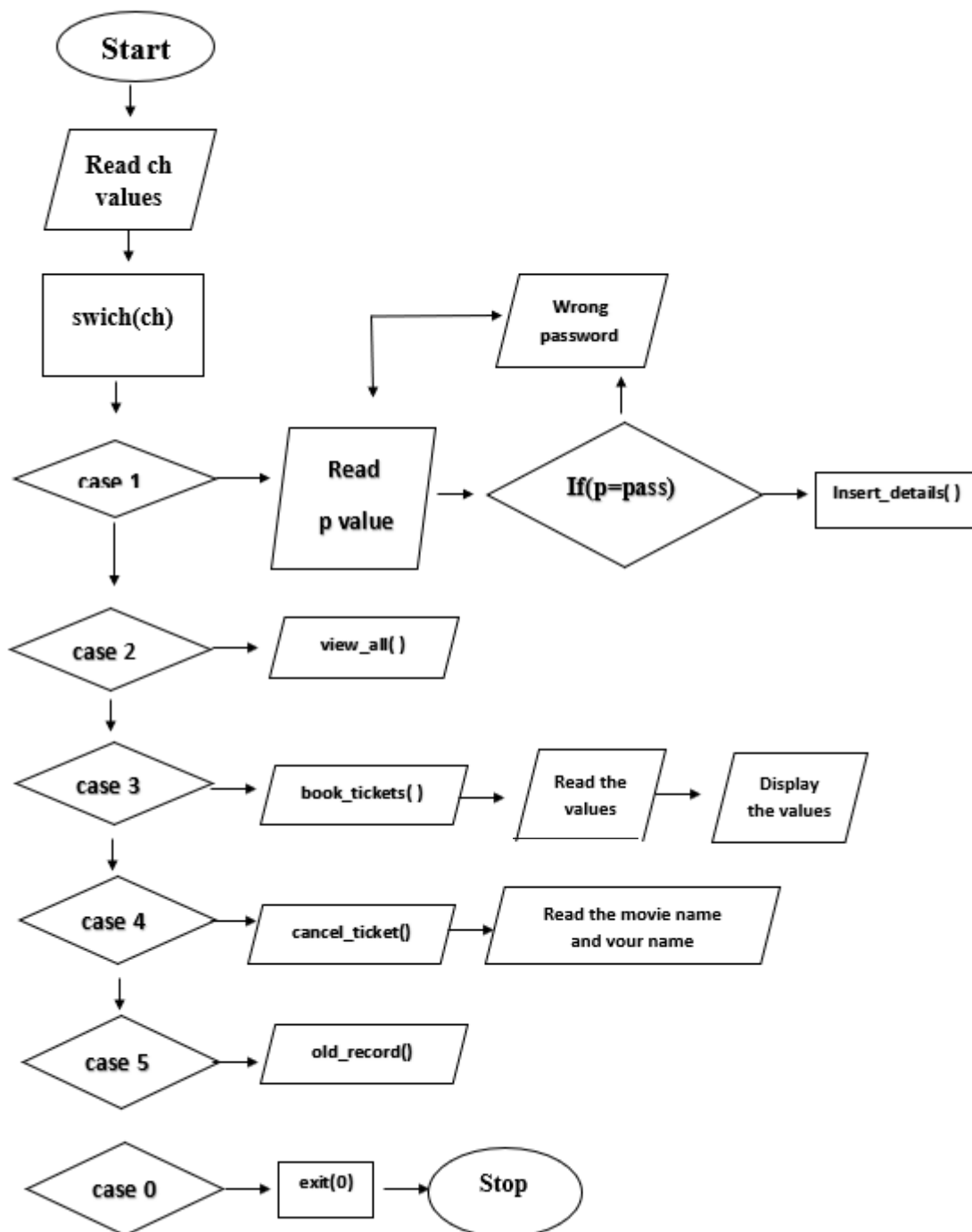
➤ HARDWARE REQUIREMENTS:

The hardware requirements that map to the software are as follows:

RAM: 8GB

Processor: i5

FLOW CHART DIAGRAM



ALGORITHM

Step 1: Start

Step 2: Declare structure movie within struct variables and functions needed

Step 3: Read the ch value

Step 4: do while if check $ch \neq 0$ then,

Step 5: switch (ch) cases

Step 5: case 1:

Step 5.1: Read the integer password

Step 5.2: Check if the password is correct then,

call function "insert_insert();"

Step 5.3: otherwise display the wrong password

break;

Step 6: case 2:

call function "viewall();"

break;

Step 7: case 3:

call function "book_ticket();"

break;

Step 8: case 4:

call function "cancel_ticket();"

break;

Step 9: case 5:

call function "old_record();"

break;

Step 10: case 0:

"exit(0);"

break;

Step 11: Stop

IMPLEMENTATION

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<math.h>

struct movie
{
    char code[20];
    char name[20];
    char date[20];
    int cost;
}b;

int seat = 100 ;
void insert_details();
void viewAll();
void book_ticket();
void cancel_ticket();
void old_record();
int password=12345;

void main()
{
    int ch;
    do{
        printf("=====");
        printf("\n Moive Ticket booking ");
        printf("\n=====");
        printf("\nPress <1> Insert Movie");
```

```

printf("\nPress <2> View All Movies");
printf("\nPress <3> Book Ticket");
printf("\nPress <4> Cancel Ticket");
printf("\nPress <5> View All Transactions");
printf("\nPress <0> Exit ");
printf("\n=====");
printf("\nEnter your Choice :: ");
scanf("%d",&ch);
switch (ch){
case 1 :
    {
        int p;
        printf("Enter the password :: ");
        scanf("%d",&p);
        if(p==password)
            insert_details();
        else
            printf("Wrong password please try again\n");
            break;
    }
case 2:
    viewAll();
    break;
case 3:
    book_ticket();
    break;
case 4:
    cancel_ticket();
    break;
case 5:
    old_record();
    break;

```

```

        case 0:
            exit(0);
            break;
        default:
            printf("Wrong choice !");
            break;
    }
} while(ch!=0);
}

void insert_details(){
    FILE *fp;
    struct movie b;
    printf("Enter movie code :- ");
    scanf("%s",b.code);
    printf("Enter name :- ");
    scanf("%s",b.name);
    printf("Enter Release Date:- ");
    scanf("%s",b.date);
    printf("Enter Ticket Price:- ");
    scanf("%d",&b.cost);
    fp=fopen("data.txt", "a");
    if(fp == NULL){
        printf("File not Found");
    }
    else{
        fprintf(fp,"%s %s %s %d \n",b.code,b.name,b.date,b.cost);
        printf("Record insert Successfull");
    }
    printf("\n");
    fclose(fp);
    printf("\n");
}

```

```

void viewAll()
{
    char ch;
    FILE *fp;

    fp = fopen("data.txt","r");
    if(fp == NULL){
        printf("file not found !");
        exit(1);

    }
    else{
        printf("Code  Movie  ReleaseDate  Cost\n");
        while( ( ch = fgetc(fp) ) != EOF )
            printf("%c",ch);
        }
        fclose(fp);
        printf("\n");
        printf("\n");
    }
}

void book_ticket(){
    struct movie b;
    FILE *fp;
    FILE *ufp;
    int total_seat,total_amount;
    char name[20];
    unsigned long long int mobile;
    char ch;
    char movie_code[20];
    fp = fopen("data.txt","r");
    if(fp == NULL){
        printf("file not found !");
    }
}

```

```

        exit(1);

    }

    else{

        printf("Code Movie ReleaseDate Cost\n");

        while( ( ch = fgetc(fp) ) != EOF )

            printf("%c",ch);

    }

    fclose(fp);

    printf("\n For Booking ticket Choose Movie(Enter Movie Code)\n");

    printf("\n Enter movie code :");

    scanf("%s",movie_code);

    fp = fopen("data.txt","r");

    if(fp == NULL){

        printf("file not found !");

        exit(1);

    }

    else{

        while(fscanf(fp,"%s %s %s %d",b.code,b.name,b.date,&b.cost)!= EOF){

            if(strcmp(b.code,movie_code) == 0){

                printf("\n Record Found\n");

                printf("\n\t\tCode ::%s",b.code);

                printf("\n\t\tMovie name ::%s",b.name);

                printf("\n\t\tDate ::%s",b.date);

                printf("\n\t\tPrice of ticket::%d",b.cost);

                break;

            }

        }

    }

    printf("\n* Fill Details *");

    printf("\n Your name :");

    scanf("%s",name);

```

```

printf("\n Mobile number :");
scanf("%llu",&mobile);
printf("\n Total number of tickets :");
scanf("%d",&total_seat);
total_amount = b.cost * total_seat;
printf("\n ***** ENJOY MOVIE *****\n");
printf("\n\t\tName : %s",name);
printf("\n\t\tMobile Number : %llu",mobile);
printf("\n\t\tMovie name : %s",b.name);
printf("\n\t\tTotal seats : %d",total_seat);
printf("\n\t\tCost per ticket : %d",b.cost);
printf("\n\t\tTotal Amount : %d",total_amount);
ufp=fopen("oldTransaction.txt","a");
if(ufp == NULL){
    printf("File not Found");
}
else{
    fprintf(ufp,"%s %llu %d %d %s %d \n",name,mobile,total_seat,total_amount,b.name,b.cost);
    printf("\n Record insert Successful to the old record file");
}

    printf("\n");
fclose(ufp);
fclose(fp);
printf("\n");
printf("\n");
}

void cancel_ticket(){
    FILE *fp1,*fp2;
    fp1=fopen("oldTransaction.txt","r");
    fp2=fopen("temp.txt","a");
    if(fp1==NULL || fp2==NULL) {
        printf("File not found\n");
    }
}

```



```

        exit(1);
    }
    else{
        char ch;
        int total_seat,total_amount,tcost;

        char name[20];
        long int mobile;
        char movie_code[20],mname[20];
        while( ( ch = fgetc(fp1) ) != EOF )
            printf("%c",ch);

        fclose(fp1);
        char moviename[20],personname[20];
        printf("Enter the movie name:");
        scanf("%s",moviename);
        printf("Enter your name:");
        scanf("%s",personname);
        fp1=fopen("oldTransaction.txt","r");
        while(fscanf(fp1,"%s %ld %d %d %s
%d",name,&mobile,&total_seat,&total_amount,mname,&tcost)!=EOF) {
            if(!(strcmp(moviename,mname)==0 && strcmp(personname,name)==0)){
                //printf("%s %ld %d %d %s %d \n",name,mobile,total_seat,total_amount,mname,tcost);
                fprintf(fp2,"%s %ld %d %d %s %d \n",name,mobile,total_seat,total_amount,mname,tcost);
            }
        }
        fclose(fp1);
        fclose(fp2);
        remove("oldTransaction.txt");
        rename("temp.txt","oldTransaction.txt");
        printf("\n\n");  }
    }

void old_record(){
    char ch;

```

```
FILE *fp;
fp = fopen("oldTransaction.txt","r");
if(fp == NULL){
    printf("file not found !");
    exit(1);
}
else{
    while( ( ch = fgetc(fp) ) != EOF )
        printf("%c",ch);}
fclose(fp);
printf("\n");
printf("\n");
}
```

INTEGRATION & SYSTEM TESTING

```
=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 1
Enter the password :: 12345
Enter movie code :- 001
Enter name :- RRR
Enter Release Date:- 09/09/2022
Enter Ticket Price:- 300
```

```
=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 1
Enter the password :: 12345
Enter movie code :- 002
Enter name :- THOR_4
Enter Release Date:- 10/09/2022
Enter Ticket Price:- 100
Record insert Successfull
```

```
=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 1
Enter the password :: 12345
Enter movie code :- 003
Enter name :- GHOST
Enter Release Date:- 05/10/2002
Enter Ticket Price:- 200
Record insert Successfull
```

```
=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 2
Code  Movie  ReleaseDate  Cost
001 RRR 09/09/2022 300
002 THOR 4 10/09/2022 100
003 GHOST 05/10/2002 200
004 GOD_FATHER 05/10/2022 150
005 SARDAR 21/11/2022 200
006 PRINCE 21/10/2022 300

=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: █
```

```

=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 3
Code  Movie  ReleaseDate  Cost
001 RRR 09/09/2022 300
002 THOR_4 10/09/2022 100
003 GHOST 05/10/2002 200
004 GOD_FATHER 05/10/2022 150
005 SARDAR 21/11/2022 200
006 PRINCE 21/10/2022 300

For Booking ticket Choose Movie(Enter Movie Code)

Enter movie code :002

Record Found

                Code ::002
                Movie name ::THOR_4
                Date ::10/09/2022
                Price of ticket::100
* Fill Details *
Your name :Khowshikk

Mobile number :6309876649

Total number of tickets :4

***** ENJOY MOVIE *****

                Name : Khowshikk
                Mobile Number : 6309876649
                Movie name : THOR_4
                Total seats : 4
                Cost per ticket : 100
                Total Amount : 400
Record insert Successfull to the old record file

```

```

=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 3
Code  Movie  ReleaseDate  Cost
001 RRR 09/09/2022 300
002 THOR_4 10/09/2022 100
003 GHOST 05/10/2002 200
004 GOD_FATHER 05/10/2022 150
005 SARDAR 21/11/2022 200
006 PRINCE 21/10/2022 300

For Booking ticket Choose Movie(Enter Movie Code)

Enter movie code :003

Record Found

                Code ::003
                Movie name ::GHOST
                Date ::05/10/2002
                Price of ticket::200
* Fill Details *
Your name :Surya

Mobile number :9848676349

Total number of tickets :3

***** ENJOY MOVIE *****

                Name : Surya
                Mobile Number : 9848676349
                Movie name : GHOST
                Total seats : 3
                Cost per ticket : 200
                Total Amount : 600
Record insert Successfull to the old record file

```

```

=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 5
Tarun 9014496086 5 1500 RRR 300
Surya 9848676349 3 600 GHOST 200
Khowshikk 6309876649 4 400 THOR_4 100

```

```

=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 4
Tarun 9014496086 5 1500 RRR 300
Surya 9848676349 3 600 GHOST 200
Khowshikk 6309876649 4 400 THOR_4 100
Enter the movie name:RRR
Enter your name:Tarun

=====
Moive Ticket booking
=====
Press <1> Insert Movie
Press <2> View All Movies
Press <3> Book Ticket
Press <4> Cancel Ticket
Press <5> View All Transactions
Press <0> Exit
=====
Enter your Choice :: 5
Surya 9848676349 3 600 GHOST 200
Khowshikk 6309876649 4 400 THOR_4 100

```

CONCLUSION

The purpose of this project was to identify effective programming skills for dealing with respective motions identified in the movie ticket booking project in C language. Based on the analysis, concluded that this project is the concepts of Structure, Files, and Functions knowing how to read, write and append the file by function declaration and calling to note the definition for files in arrays and long integer values with the global declaration of variables and structure variables finished the project and getting outputs for the given inputs.