

North South University

Department of Electrical and Computer Engineering

Lab Project Report

Semester : NSU Fall 2022

Course Code : CSE 115L

Section : 12
Group Name : B5

Faculty : Rifat Ahmed Hassan (RIH)
Lab Instructor : A. S. M. Sabiqul Hassan

Project Topic : Travel Ticket Management System

GitHub Repo Link : https://github.com/rayhan-31/Project-

CSE115.git

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Description of the project :

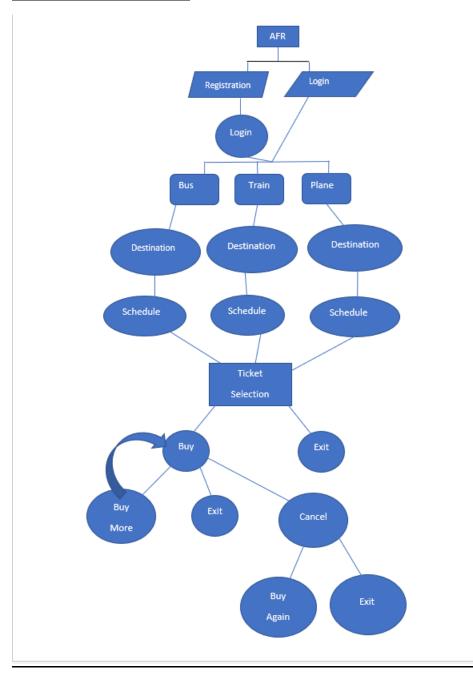
INTRODUCTION: The Transport reservation system is created by C programming language, and we have used arrays, structures, strings, loops, files and different types of user-defined functions.

Features:

- 1. Registration and login system: User will get two options such as register and login. Existing user can login and new user can register themselves easily.
- 2.<u>Transport choosing option:</u> User will get options to choose their method of travel such as bus, train and plane.
- 3. <u>Purchasing ticket:</u> User can easily buy tickets according to their time schedules. There are various options to choose.
- 4. <u>Cancellation system:</u> After purchasing a ticket user will get option to return the ticket. User can return the ticket if they want to return the ticket.

<u>Conclusion</u>: This is a project for transport ticket management system using c programming language. We have used arrays, strings, pointers, structures, files, user-defined functions to build this project. User can register himself and login by his own username and password. Moreover, he can choose his desired vehicle and schedule to travel. Furthermore, he can buy tickets and can cancel them after buying if he wants to return the tickets. This system is built to help the ticket selling or transport companies to make their work well-organized.

Diagram(Flowchart):



Main Code:

```
#include <stdio.h>
#include <stdlib.h>
#include<string.h>
#include<conio.h>
#include<stdio.h>
int key=0;
struct login
{
    char fname[100];
    char lname[100];
    char username[100];
    char password[100];
};
void registe();
void login();
int WelcomeMessage();
int Bus();
int Train();
int Plane();
int Schedule();
int BuyTicket();
int main()
//verifying the user.....
verification_line:
```

```
############;;
  Please Verify Yourself
########;
  Please Register If You're
        #########;
  Or Login
#########;
############;;
  printf("\n\t\t\-----
----\n");
  int cho;
  printf("\n\n\t\tEnter 1 For Register Or Enter 2 For Login:
");
  scanf("%d", &cho);
  if(cho==1)
  {
    system("CLS");
    registe();
    system("cls");
    login();
  }
  else if (cho==2)
  {
    system("CLS");
    login();
  }
  else
  {
    system("cls");
```

```
goto verification line;
    }
    system("cls");
    int scd=0;
    int key;
Welcome Line:
    system("cls");
    key=WelcomeMessage();
    if(key==1)
    {
       scd= Bus();
    }
    else if(key==2)
    {
      scd= Train();
    }
    else if(key==3)
       scd= Plane();
    }
    else
    {
      goto Welcome_Line;
    }
    Schedule();
    system("cls");
```

```
BuyTicket();
  return 0;
}
void registe()
{
############;;
  printf("\n\t\t\t###########
########;
  Please Register
Yourself
             ########;
  printf("\n\t\t\###########
########;
#############;;
  printf("\n\t\t\------
-----\n");
  FILE *log;
  log=fopen("login12.txt","w");
  struct login 1;
  printf("\n\t\tEnter First Name: ");
  scanf("%s", l.fname);
  printf("\n\t\t\tEnter Last Lame: ");
  scanf("%s",1.lname);
  printf("\n\t\tEnter Username: ");
```

```
scanf("%s",1.username);
  printf("\n\t\tEnter Password: ");
  scanf("%s",1.password);
  fwrite(&1, sizeof(1), 1, log);
  fclose(log);
  printf("\n\n\t\t\tRegistration Successful...\n");
  printf("\n\n\t\t\Now login with userid and password.\n");
  printf("\n\t\t\tPress Any Key To Continue....");
  getch();
  system("CLS");
}
void login()
{
############;;
  Please Enter
#########;
  Your UserName And
Password
            ##########;
  printf("\n\t\t\############
                                    TO Login
#########;
############;;
  printf("\n\t\t-----
         ----\n");
```

```
char username[200],password[20];
    FILE *log;
    log=fopen("login12.txt","r");
    struct login 1;
    printf("\n\n\t\t\tUserName: ");
    scanf("%s", &username);
    printf("\n\n\t\t\tPassword: ");
    scanf("%s", &password);
    while(fread(&l, sizeof(l), 1, log))
    {
        if(strcmp(username, l.username) == 0
                                                                  & &
strcmp(password, l.password) == 0)
        {
            key = WelcomeMessage;
        }
        else
        {
            system("cls");
            printf("Incorrect Username or password. Please Try
again..\n\n");
            login();
        }
    }
    fclose(log);
}
int WelcomeMessage()
```

```
printf("\n\n\n\n\n");
                  **_**_**_**_**_*
   printf("\n\t\t\t
**-**-**\n");
   printf("\n\t\t\t
                        =-=-=-=-=-=-=-
=-=-=");
   printf("\n\t\t\t
                                                 WELCOME
                          =
=");
   printf("\n\t\t\t
                                                     TO
=");
   printf("\n\t\t\t
                                             AFR Ticket
                          =
=");
   printf("\n\t\t\t
                                         Booking System
=");
   printf("\n\t\t\t
                                                   =");
                     =
   printf("\n\t\t\t
                        =-=-=-=-=-=-=-
=-=-=");
                  **_**_**_**_**_*
   printf("\n\t\t\t
**-**-**\n");
   int TransportTYpe;
   printf("\n\n\t\t\t Available Transport Options:\n");
   printf("\n\t\t\t 1. Bus\n");
   printf("\t\t\t 2. Train\n");
   printf("\t\t\t 3. Plane\n");
   printf("\n\n\t\t\t Enter How You Want to Travel:");
   scanf("%d", &TransportTYpe);
   system("cls");
   return TransportTYpe;
}
```

{

```
int Bus()
{
DestinationB Line:
   printf("\n\t\t\t **-**-**-**-**-**-**-**-**-**-**-
**-**-**\n");
   printf("\n\t\t\t
                         _______
=-=-=");
   printf("\n\t\t\t
                                                   WELCOME
                           =
=");
   printf("\n\t\t\t
                                                        То
=");
   printf("\n\t\t\t
                                                   AFR BUS
=");
   printf("\n\t\t\t
                                             Ticket Booking
=");
   printf("\n\t\t\t
                                                      =");
                      =
   printf("\n\t\t\t
                         =-=-=-=-=-=-=-
=-=-=");
   printf("\n\t\t\t **-**-**-**-**-**-**-**-**-**-**-
**-**-**-**\n");
   printf("\n\n\t\t\tAvailable Buses:");
   printf("\n\t\t\t1. Dhaka to Chittagong");
   printf("\n\t\t\t\t2. Dhaka to Cox's Bazar");
   printf("\n\t\t\t3. Dhaka to Sylhet");
   printf("\n\t\t\t4. Dhaka to Teknaf");
   printf("\n\t\t\t5. Dhaka to Rajshahi");
   printf("\n\t\t\t6. Dhaka to Khulna");
   printf("\n\t\t. Dhaka to Rangpur");
   printf("\n\t\t\t\t8. Dhaka to Barishal");
   printf("\n\t\t\t\t9. Dhaka to Rangamati");
```

```
int dest;
   printf("\n\t\tEnter Your Destination or 0 to exit ");
   scanf("%d", &dest);
   system("cls");
   if(dest==0)
       return 0;
   }
   else
                                if (dest==1||dest==2||dest==3||
dest==4||dest==5||dest==6||dest==7||dest==8||dest==9)
       return 1;
   }
   else
   {
       system("cls");
       goto DestinationB Line;
   }
}
int Train()
{
DestinationT Line:
   printf("\n\t\t\t **-**-**-**-**-**-**-**-**-**-**-
**-**-**\n");
   printf("\n\t\t\t
                          =-=-=-=-=-=-=-=-=-
=-=-=");
   printf("\n\t\t\t
                                                      WELCOME
=");
  printf("\n\t\t\t
                                                           TO
=");
```

```
printf("\n\t\t\t
                                                  AFR Train
=");
   printf("\n\t\t\t
                                              Ticket Booking
=");
   printf("\n\t\t) =
                                                       =");
   printf("\n\t\t\t
                          =-=-=-=-=-=-
=-=-=-=");
   printf("\n\t\t\t **-**-**-**-**-**-**-**-**-**-**-
**-**-**\n");
   printf("\n\n\t\t\tAvailable Trains:");
   printf("\n\n\t\t##Inside Dhaka Division:");
   printf("\n\t\t\t1. Kumalapur to Narayangonj");
   printf("\n\t\t\t2. Kumalapur to Keranigonj");
   printf("\n\t\t\t\t3. Kumalapur to Old Airport Station");
   printf("\n\n\t\t\t##Outside Dhaka:");
   printf("\n\t\t\t4. Dhaka to Sylhet");
   printf("\n\t\t\t5. Dhaka to Comilla");
   printf("\n\t\t\t6. Dhaka to Rajshahi");
   printf("\n\t\t);
   int dest;
   printf("\n\t\tEnter Your Destination or 0 to exit ");
   scanf("%d", &dest);
   system("cls");
   if(dest==0)
       return 0;
   }
   else
                               if(dest==1||dest==2||dest==3||
dest==4||dest==5||dest==6||dest==7|
```

```
{
      return 1;
   }
   else
   {
       system("cls");
       goto DestinationT Line;
   }
}
int Plane()
DestinationP Line:
   printf("\n\t\t\t
                   **_**_**_**_**_*
**-**-**-**\n");
   printf("\n\t\t\t
=-=-=");
  printf("\n\t\t\t
                                                   WELCOME
=");
   printf("\n\t\t\t
                                                       TO
=");
  printf("\n\t\t\t
                                                  AFR Air
  printf("\n\t\t\t
                                            Ticket Booking
=");
   printf("\n\t\t\t
                                                     =");
   printf("\n\t\t\t
=-=-=");
                   **_**_**_**_**_*
   printf("\n\t\t\t
**-**-**-**\n");
   printf("\n\n\t\t\tAvailable Flights:");
   printf("\n\n\t\t##Domestic Flights:");
```

```
printf("\n\t\t\t1. Dhaka to Chittagong");
   printf("\n\t\t\t\t2. Dhaka to Cox's Bazar");
   printf("\n\t\t\t\. Dhaka to Sylhet");
   printf("\n\n\t\t\##International Flights:");
   printf("\n\t\t\t4. Dhaka to Delhi");
   printf("\n\t\t\t\t5. Dhaka to Lahore");
   printf("\n\t\t\t6. Dhaka to Beijing");
   printf("\n\t\t\t\t7. Dhaka to Kathmandu");
   int dest;
   printf("\n\t\tEnter Your Destination or 0 to exit ");
   scanf("%d", &dest);
   system("cls");
   if(dest==0)
   {
       printf("\n\t\t");
       return 0;
   }
   else
                                  if (dest==1||dest==2||dest==3||
dest==4 | | dest==5 | | dest==6 | | dest==7 |
   {
       return 1;
   }
   else
    {
       system("cls");
       goto DestinationP Line;
    }
```

```
}
int Schedule()
{
  int sc:
schedule line:
############;
  printf("\n\t\t\t###########
########;
  Available Schedules
########;
  #########;
############;;
  printf("\n\t\t-----
----\n");
  printf("\n\t\t\t1. 12:00 AM");
  printf("\n\t\t\t2. 02:00 AM");
  printf("\n\t\t\t3. 04:00 AM");
  printf("\n\t\t\t4. 06:00 AM");
  printf("\n\t\t\t5. 08:00 AM");
  printf("\n\t\t\t6. 10:00 AM");
  printf("\n\t\t11:00 AM");
  printf("\n\t\t\t8. 12:00 PM");
  printf("\n\t\t\t\t9. 02:00 PM");
  printf("\n\t\t\t10. 04:00 PM");
  printf("\n\t\t\t11. 06:00 PM");
  printf("\n\t\t\t12. 08:00 PM");
```

```
printf("\n\t\t\t13. 10:00 PM");
   printf("\n\t\t\t
exit: ");
   scanf("%d", &sc);
   switch(sc)
   {
   case 1:
      return 1;
   case 2:
      return 1;
   case 3:
     return 1;
   case 4:
    return 1;
   case 5:
     return 1;
   case 6:
      return 1;
   case 7:
      return 1;
   case 8:
     return 1;
   case 9:
      return 1;
   case 10:
     return 1;
   case 11:
     return 1;
   case 12:
```

```
return 1;
  case 13:
     return 1;
  case 0:
     return 0;
  default:
     system("cls");
     goto schedule line;
  }
}
int BuyTicket()
{
  int numT, con, a, numS=15;
BuyTicket Line:
############;;
  printf("\n\t\t\############
########;
  AFR Tickets
########;
  printf("\n\t\t\#############
########;
#############;
  printf("\n\t\t\-----
----\n");
  printf("\n\n\t\t\t\tAvailable Seats: %d", numS);
  printf("\n'n\t\t\t\tNumber of Tickets: ");
  scanf("%d", &numT);
  system("cls");
```

```
if(numT<=numS)</pre>
  {
##############;;
   #########;
   AFR
Tickets
           #########;
   printf("\n\t\t\t############
########;
##############;
   printf("\n\t\t-----
-----\n");
   printf("\n\n\t\t\tEnter Yes(1) to Confirm or No(0) to
Exit: ");
   scanf("%d", &con);
   if(con==1)
   {
     numS = numS - numT;
     system("cls");
############;;
     printf("\n\t\t\t###########
########;");
     printf("\n\t\t\t############
                             AFR
Tickets
           #########;
     #########;
#############;;
```

```
printf("\n\t\t\------
           ----\n");
      printf("\n\n\t\t\t###Thanks For
                              Your
Purchase###");
      printf("\n\n\t\tEnter 1 To Buy Again Or 2 To
Cancel Your Purchase Or 0 To Exit: ");
      scanf("%d", &con);
      if(con==0)
        system("cls");
###########;
        printf("\n\t\t\t###########
########;
        AFR
            #########;
Tickets
        ########;
############;
       printf("\n\t\t\-----
          ----\n");
        printf("\n\n\t\t\####Thanks For Your
Purchase###");
       return 0;
      else if(con==2)
      {
        system("cls");
###########;
```

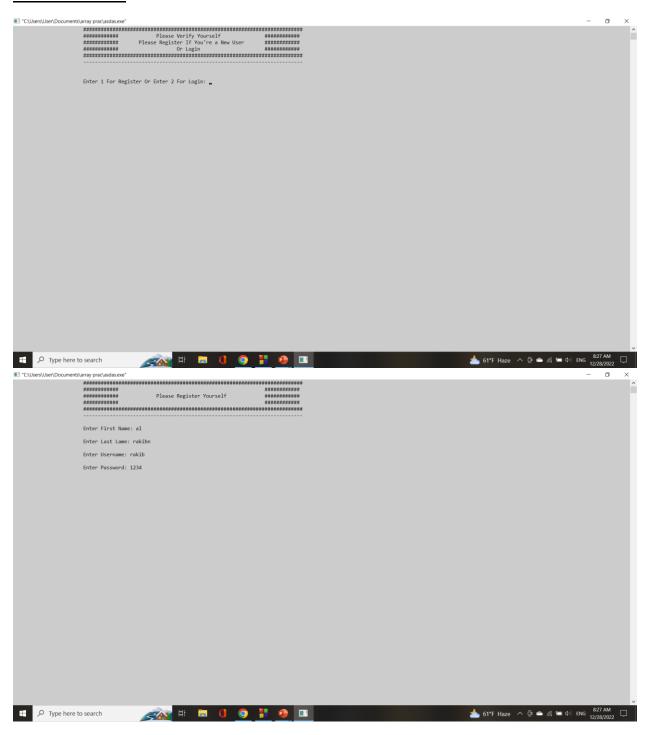
```
printf("\n\t\t\t###########
########;
         printf("\n\t\t\t############
                                    AFR
Tickets
              #########;
         printf("\n\t\t\t###########
########;
#############;
        printf("\n\t\t\-----
           ----\n");
         printf("\n\t\tYour %d Tickets Have Been
Successfully Cancelled..", numT);
         numS=numS+numT;
         printf("\n\t\tEnter 1 To Buy Again Or 0 To
Exit..");
         scanf("%d", &a);
         if(a==0)
#############;;
           #########;
           printf("\n\t\t\t############
AFR Tickets
                 #########;
           printf("\n\t\t\t############
#########;
#############;
           printf("\n\t\t\t-----
           printf("\n\n\t\t###Thanks For Using
AFR###");
```

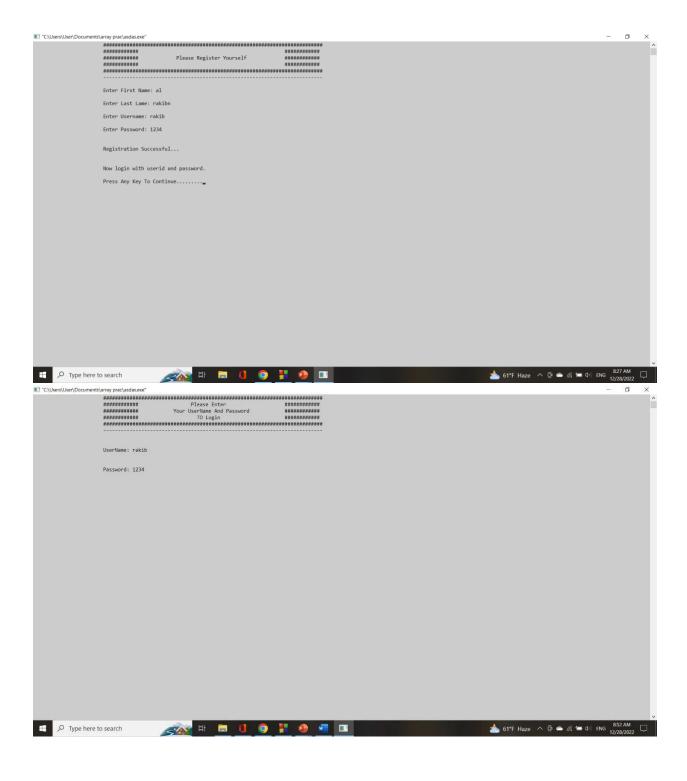
```
return 0;
          }
          else if (a==1)
          {
             system("cls");
             goto BuyTicket Line;
          }
       }
       else if(con==1)
          system("cls");
          goto BuyTicket Line;
        }
     }
     else if(con==0)
     {
     system("cls");
############;;
       printf("\n\t\t\t###########
########;
       printf("\n\t\t\t############
                                        AFR
Tickets
                #########;
       printf("\n\t\t\t###########
########;
############;
       printf("\n\t\t\-----
               ----\n");
       printf("\n\n\t\t\t###Thanks For Using AFR####");
```

```
return 0;
     }
  }
  else if(numS<numT)</pre>
  {
###########;;
    #########;
    printf("\n\t\t\t############
                                       AFR
Tickets
               #########;
     printf("\n\t\t\t###########
#########;
############;;
    printf("\n\t\t\-----
       ----\n");
     printf("\n\t\t\t\t\d Tickets not Available\n", numT-
numS);
    printf("Enter 0 to exit or 1 to go backwards.");
     scanf("%d", &con);
     if(con==1)
       system("cls");
       goto BuyTicket Line;
     }
     else if(con==0)
     {
       return 0;
     }
```

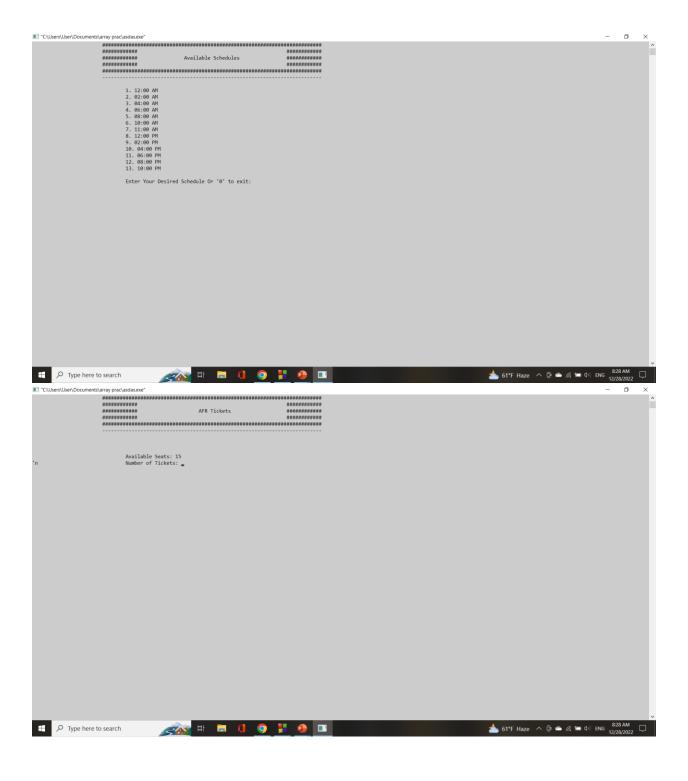
```
}
else
{
    return 0;
}
```

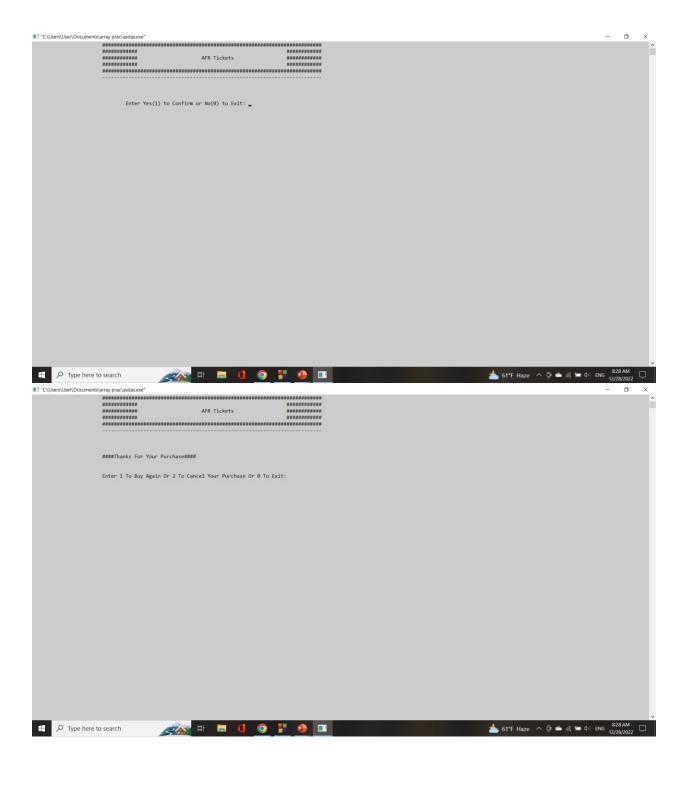
Screenshots:













Planned to do:

- User Login system
- Option to choose transportation type
- Buying ticket
- Cancelling ticket

Done:

- User Login system
- Option to choose transportation type
- Buying ticket
- Cancelling ticket