

B.Sc. ENGG. THESIS

A Thesis bassed on Airlines ticket service management using C
PROGRAMMING language

Department of Computer Science & Engineering

(In partial fulfillment of the requirements for the degree of
Bachelor of Science in Computer Science & Engineering)



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Abstract

Nowadays people want to travel the whole world with comfort. Something we need to travel another country for our profession in a short time. For these reasons, airways are the best option for travelers. Because airways take short time than other options. So many companies and counties build airways to make a profit from these needs. But people want the best ticket with their money. So they have to find many airways. It is one of the most difficult works for a new or busy person. To make this task easy here comes the ticket service company. This company takes flight data from different airways for passengers to buy tickets. Passengers can compare differents airways from a shortlist and can buy their best ticket. When a passenger buys a ticket from this company offers a paper. After viewing that's paper the airways offers tickets for that person. "AAF AIRLINES" one of these. From "AAF AIRLINES" companies software, people can easily buy passenger and charter tickets. People can also send their products by air to a different destination. People can also delete or change their data from this software.

Approval

A Thesis on Airlines ticket management using C PROGRAMMING language is submitted by ANUPAM KUMAR (19202103261), MD. AL EMAM (19202103242) and FARHAN ISRAQ (19202103272), under the department of Computer Science and Engineering of Bangladesh University of Business and Technology is accepted in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering

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Acronyms List

RSA = Rivest–Shamir–Adleman

DAO = Decentralized Autonomous Organization

DES = Data Encryption Standard

USD = United State Dollar

UK = United Kingdom

IPFS = Inter Planetary File System

IoT = Internet of Things

IBM = International Business Machines Corporation

SSL = Secure Sockets Layer

AML = Anti-Money Laundering

KYC = Know Your Customer

TiM = Trust in Motion

MIT = Massachusetts Institute of Technology

ASX = Australian Securities Exchange

JPX = Japan Exchange Group

IPO = Initial Public Offering

QR = Quick Response Code

MD5 = Message-Digest Algorithm

MAC = Message Authentication Codes

BTC = Bitcoin

NIST = National Institute of Standards and Technology

GCD = Greatest Common Divisor

AES = Advanced Encryption Standard

TLS = Transport Layer Security

VPNs = Virtual Private Network

ECC = Elliptic Curve Cryptography

DDoS = Distributed Denial of Service

URL = Uniform Resource Locator

M2M = Machine to Machine

CPU = Central Processing Unit

GPU = Graphics Processing Unit

SPV = Simplified Payment Verification

HTLCs = Hashed Timelock Contracts

ACH = Automated Clearing House

HDAC = Hyundai Digital Access Currency

ePoW = Electronic Proof of Warranty

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Chapter 1

Introduction

1.1 Introduction

Nowadays airways are one of the most important needs for international business employees, engineers, doctors, and travelers. Because they need to travel each country to others country for their work. Airways are the best option because it is comfortable and it saves time. For these reasons many countries and companies open airways company. in recent time 500+ companies operate their airways in the world. Some companies operate domestic airways and some companies operate both domestic and international airways.

The airline's ticket service companies help airways travelers for purchase tickets. Airlines ticket services companies also help travelers to make the right choices by viewing airways facilities and price.

1.2 The Concept of Airlines ticket service company

The ticket service company is the middle company for buyers and sellers. This company collects data from different airways companies to sell airways companies plane tickets and shows data to the buyer to make the right choice according to need. This company also solves some problems for travelers. Currency problem is one of them. Because most of the



bitcointalk.org

Figure 1.1: DIGITAL CURRENCY

international and domestic airways receive digital international currency like Paytm, master card, visa card. Most travelers can't use Paytm, master card, visa card. So they have to go to the airport for buying a ticket. Airlines ticket service company also solve that issue by convert domestic digital currency(ROCKET, BKASH, NOGOD) to international digital currency. Sometimes when passengers went to the airport but they can't find a ticket. This company also shows seat data. Basically airways has three types of services .[1]

1.PASSENGER AIRWAYS.

2.CHARTER AIRWAYS.

3.CARGO AIRWAYS.

1.2.1 Passenger Airlines



Figure 1.2: PASSENGER AIRLINES

Passenger airlines are used for traveling one place to another place in long distance. This airlines has two types domestic and international. Domestic airlines are servicing into country and international airlines servicing throughout the whole world. Passenger airlines ticket price based on sit. A passenger can choose any empty sit. Basically this airways has more than 100 sit. This airways carefully maintain their timing.[2][3]

1.2.2 Charter Airlines



Figure 1.3: CHARTER AIRLINES

Charter airlines are used for private traveling . A person can book whole plane for a several time. Basically rich person, business man, government worker use this kind of airlines. Day

by day it is one of the most rising airways. Charter airlines ticket price depend on time. Some charter flights can go out to others country. For that ticket price depend on time and distance.[4]

1.2.3 Cargo Airlines



Figure 1.4: CARGO AIRLINES

Cargo airlines are mostly used for transport product. This type of airlines carrying emergency lite product from one place to another place. The most importing fact is that sender not need to talk with cargo airlines. A sender need to talk with some transport company. The transport company booked cargo airlines. But sender must give information to receiver and product. The rent of cargo depends on distance and product wet. If the product so softicate then sender have to pay some extra fees.[5]

1.3 Motivation

Everyone wants to try travel one country to another country by airways. But one of the main problem is new travelers are don't know about ticket price and facilities for all airlines. So that they buy a ticket without any compare to others airlines. Suppose one person go to a destination at 5000 TK. One the other hand another person go to the same destination at

4500 TK. For this reasons we open airlines ticket service company. This company helps people to make a right choice for buying ticket.

1.4 Objectives of This Thesis

The main purpose of our thesis is to make the right choice for passengers. .The main objectives of our thesis are as follows-

- Choose sit: This project helps people to choose any sit from a plane.
- Show airlines data: This project shows airline data for travelers.
- Account security : This project secure user data.

1.5 Our Contributions

The main purpose of our thesis is to make a project that helps the travelers to see all data in a page. so that they can buy their favorite ticket at best price.

- We have used C programming language in this project.We also used stacture, function,file and so on.
-

1.6 Conclusions

In recent time airlines ticket service company is one of the most important company for travelers. Searching for a ticket need a lot of time and also boring. Travelers wants Budget saving ticket , one the others hand some travelers wants more comfortable plane, some wants to book a full private jet. Emergency patient need to take hospital by air ambulance in some case . Actully time is most important things in our life and ticket services company save travelers time.

Chapter 2

Literature review

2.1 Introduction

Many airways companies sells their airlines ticket. They sells only their airlines ticket. For this reasons travelers cant compare to others. If any travelers wants to compare ticket facilities to others tickets they loses a lot of time. New travelers are also helped from airlines tickets service company . because they donot have any idea from airways company.

2.2 Advantage and Disadvantage of ticket service company

There are some advantage and disadvantage in ticket service company.

2.2.1 Advantage

- Shows data according to the destination .
- Helps travelers for purchase tickets.
- Shows flights information.
- Given chance to cancel ticket .
- Saving a lot of time for travelers to find ticket .

- Helps airways to sell tickets.

2.2.2 Disadvantage

- Sometimes people brought ticket by wrong information.
- Hackers are also one of the major problem.
- If the airways cancel their flights without any notice,then this company fall in danger
- Some fraud open ticket service company, For this reasons some people lose their money.

2.3 About ticket service company

Most of the airways company don't want to share their flights data to others company. As a result many ticket service company/apps/software cant collect airways data. So they sells ticket according to time. If ticket service company wants to collect data from airways company they have to deal with airways company. But some airways company don't want to deal with third party company. So the ticket service company have some company .The airways company open their own companies tickets service portal. If the ticket service company ensure to protect airways and travelers data, this types of company have a chance to rise. Nowadays people get more lazier so that people searching for more data in a little time.[6]

2.4 Conclusions

Airlines ticket service companies are doing a greet job for airways and travelers. travelers can find their best ticket in a little time and airways companies are sell their tickets easily .

Chapter 3

Proposed Model

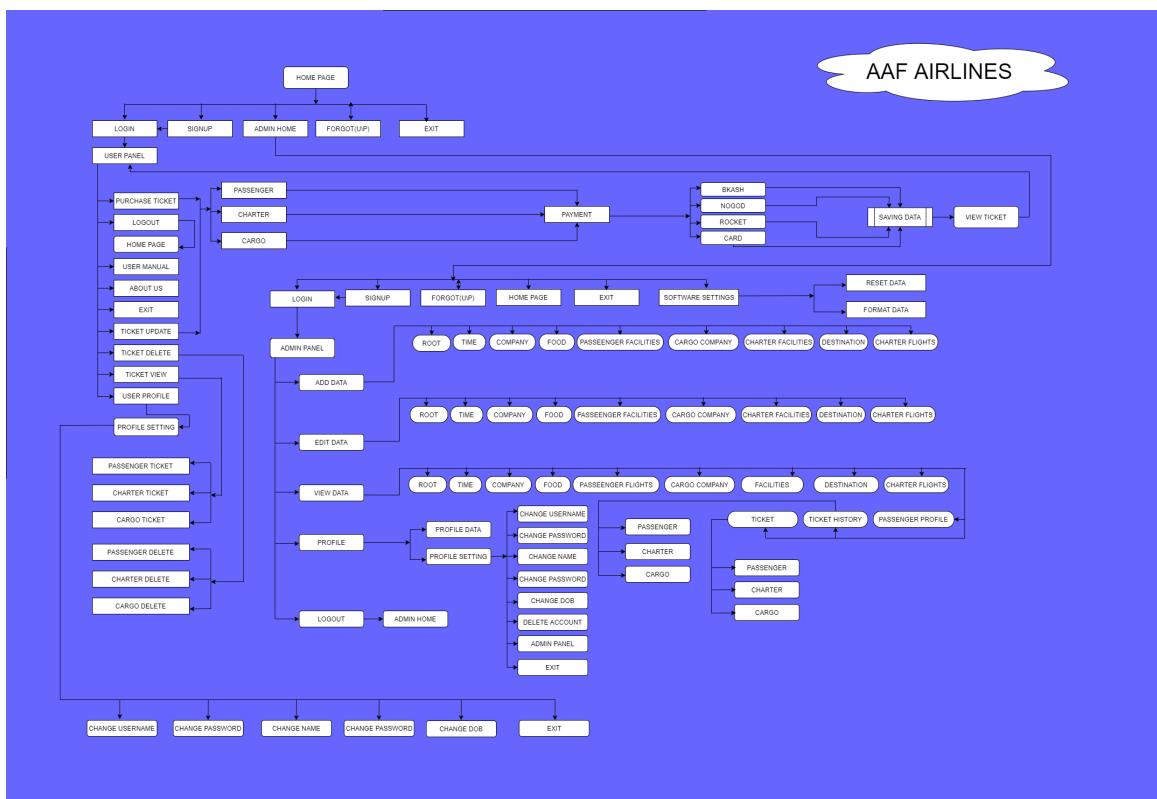


Figure 3.1: Proposed Model

Chapter 4

Software analysis

4.1 Device

- PC : Lenovo ideapad 330
- PC : Lenovo ThinkPad E590
- PC : HP EliteBook 840 G7

4.2 HARDWARE REQUIREMENTS

RAM: - 1GB or more

Hard Disk: - 40 GB or more

Processor: - Intel Pentium 3 ,CORE i3, Ryzen 5 or above

4.3 SOFTWARE REQUIREMENTS

Operating system: Windows 10

Analyzing Software: Dev C++, Code blocks etc.

Compiler : Standard C++ Compiler

Data Composer : Microsoft office program

Chapter 5

Experimental Results and Evaluation

5.1 Result Analysis

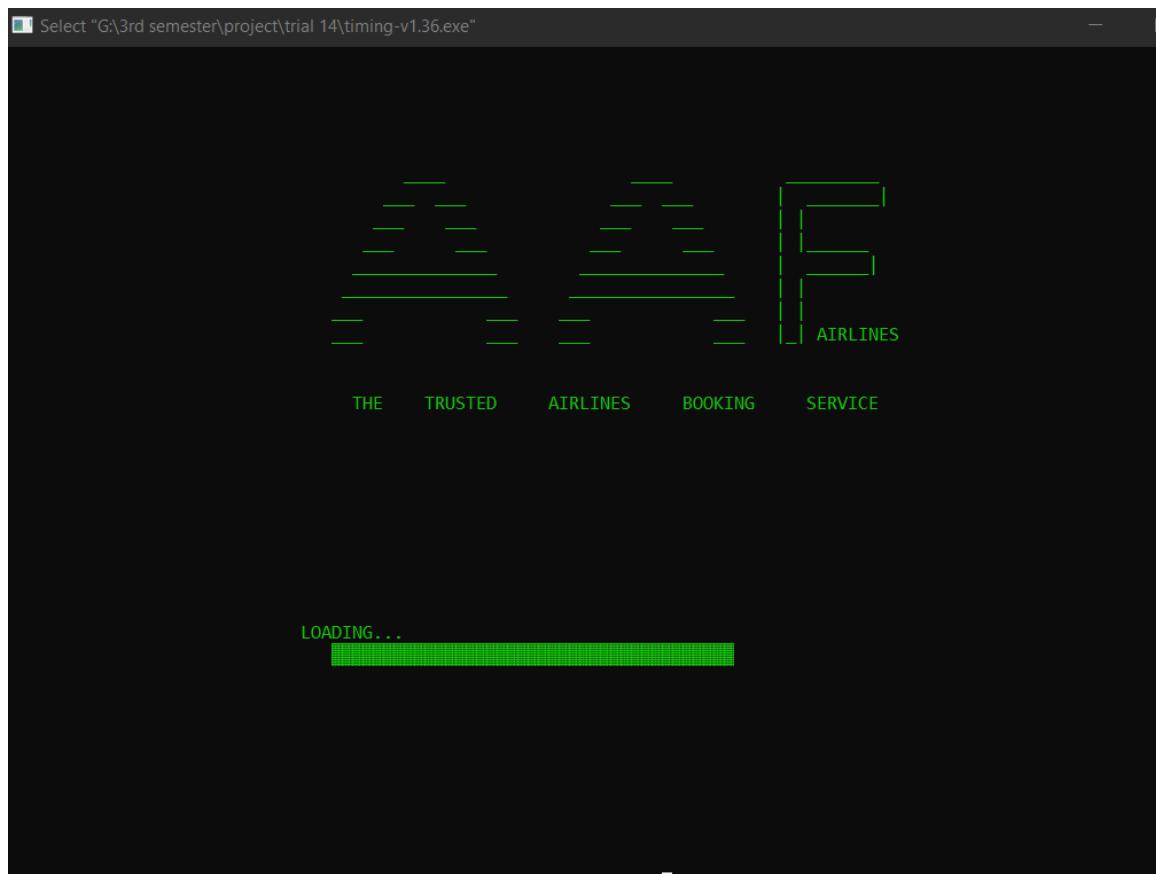


Figure 5.1: INTRODUCTION

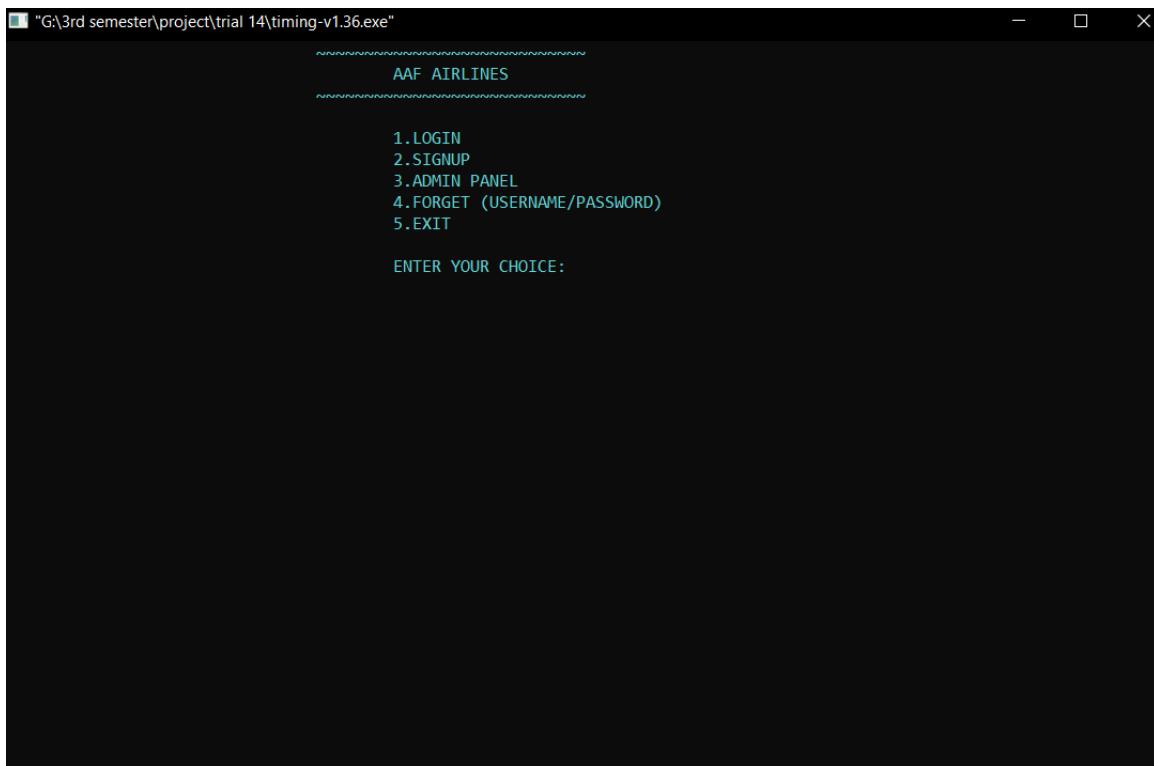


Figure 5.2: HOME PAGE

5.1.1 PUBLIC USER

- PURCHASE TICKET

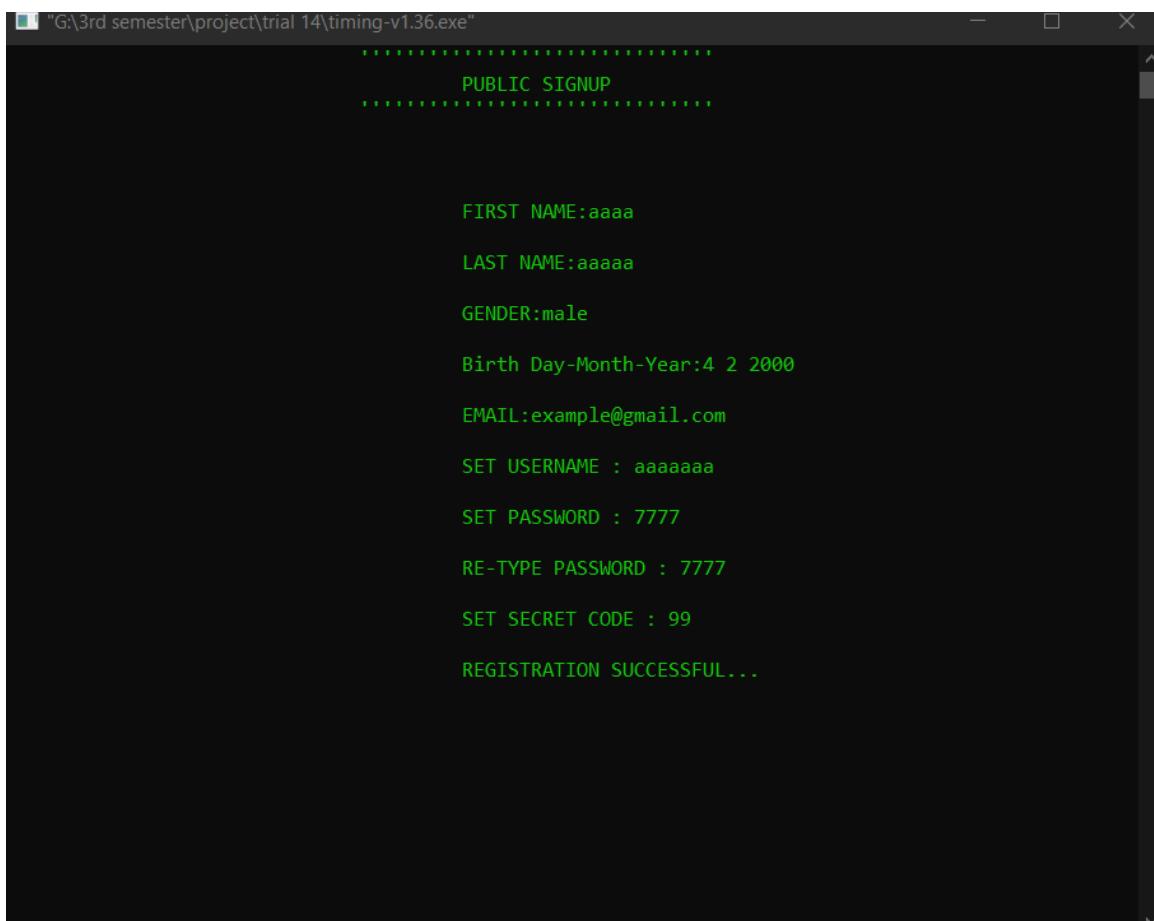


Figure 5.3: SIGN UP

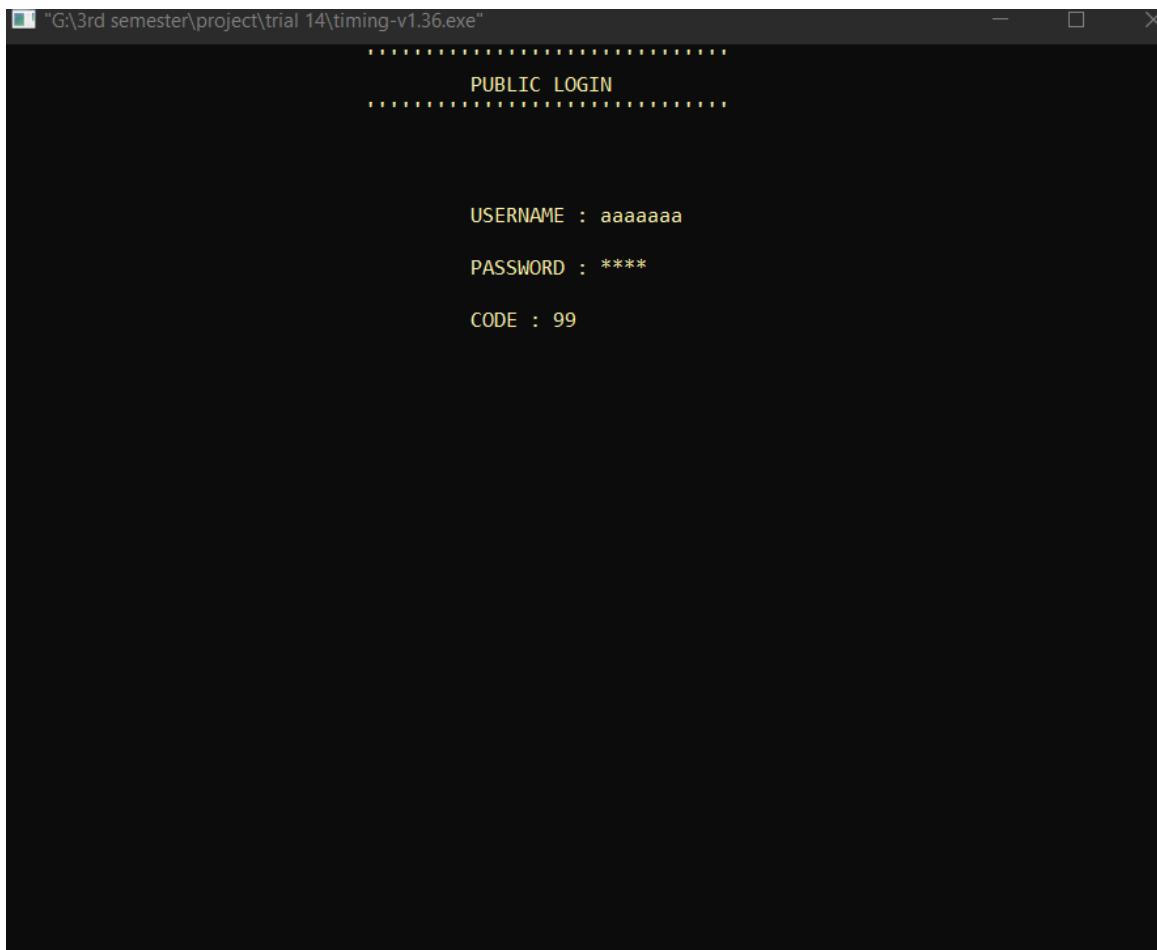


Figure 5.4: LOGIN

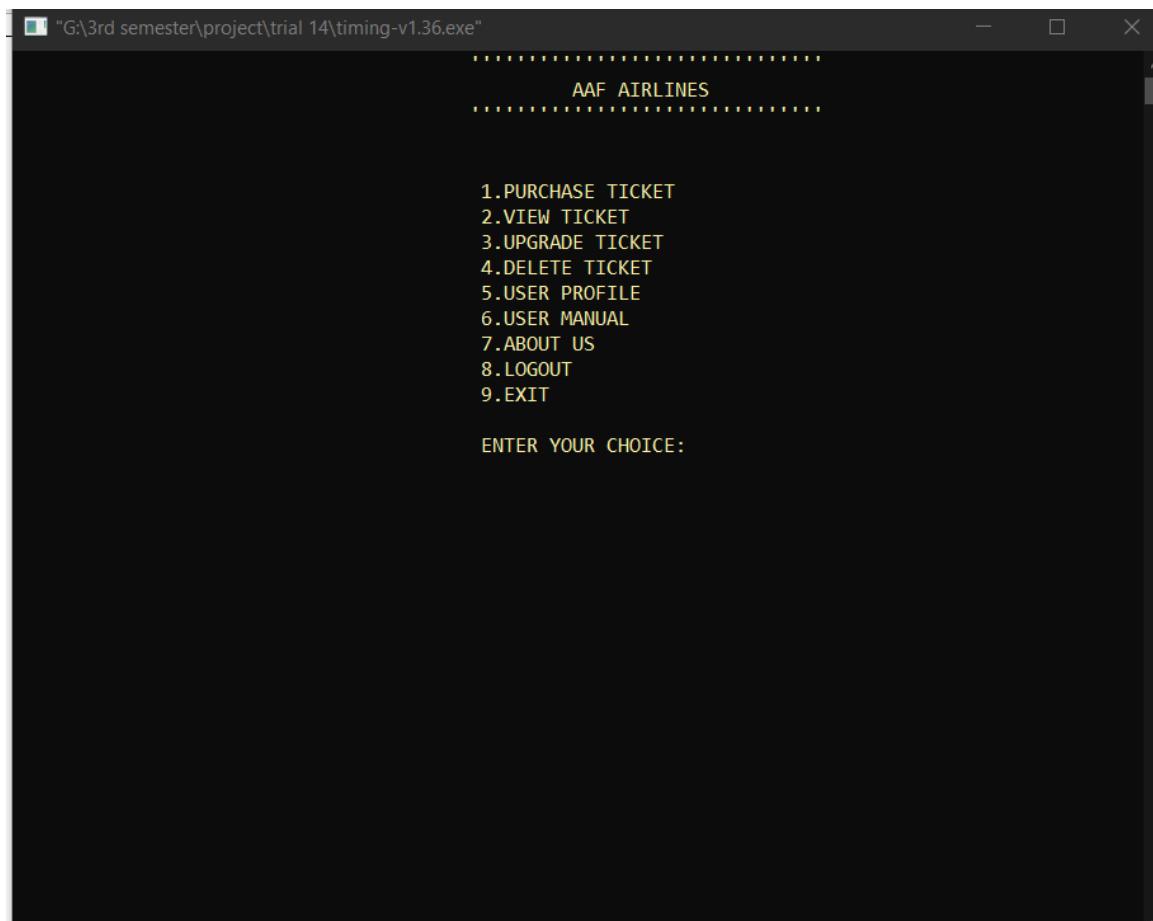


Figure 5.5: USER

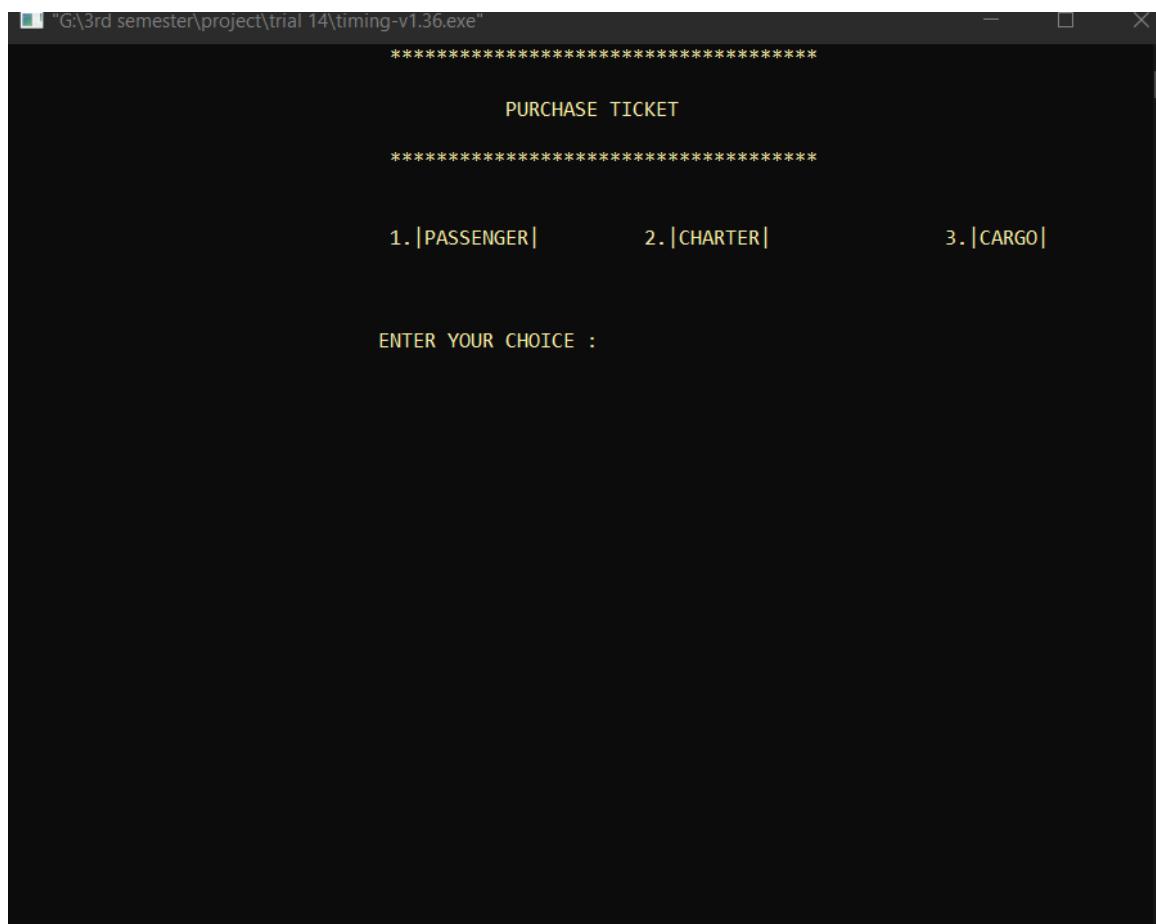


Figure 5.6: TYPE OF PLANE

PASSENGER AIRLINES

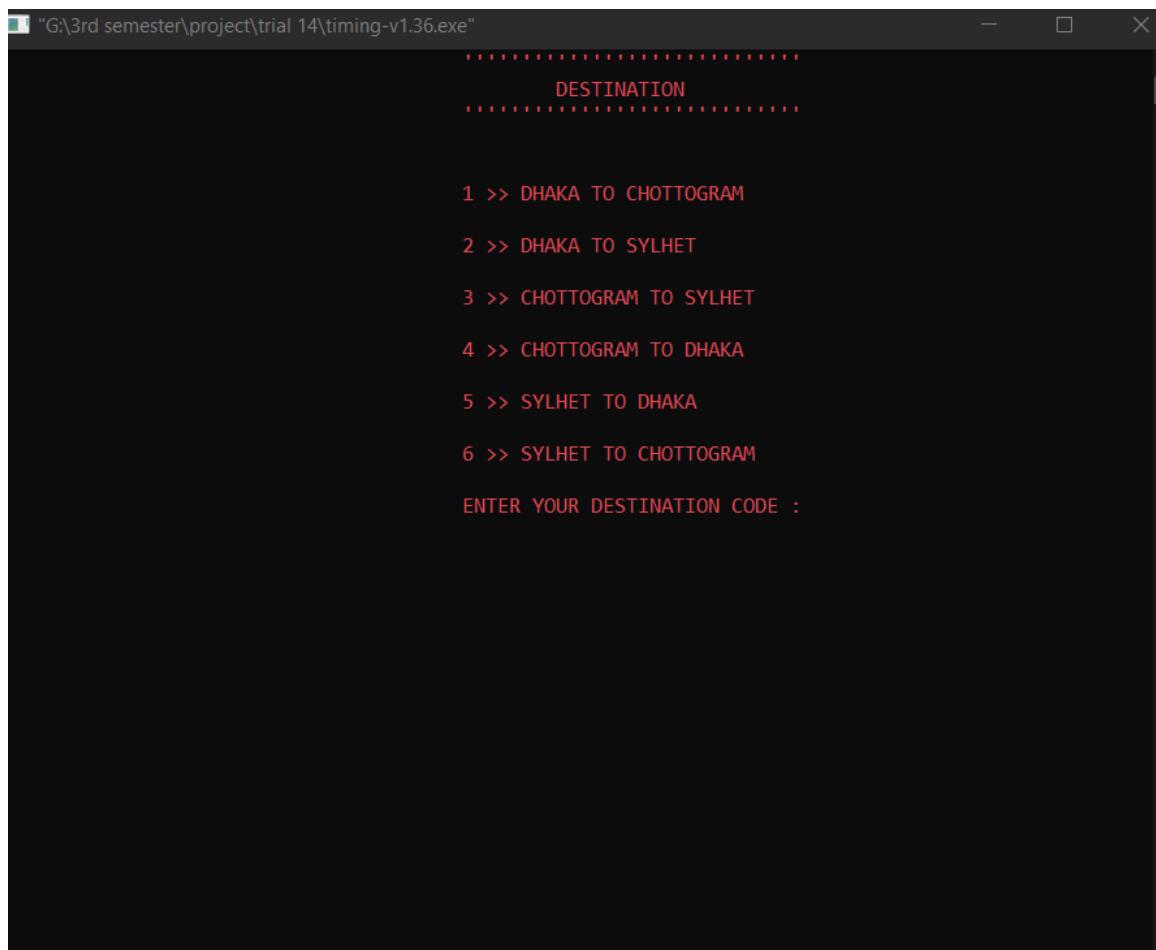


Figure 5.7: CHOOSE DESTINATION

The screenshot shows a C++ development environment with the code editor displaying a file named "timing-v1.36.c". The code implements a flight booking system. The terminal window shows the execution of the program, which asks for destination codes and prints flight details. The output includes flight information such as destination, code, time, company, food, facilities, and price.

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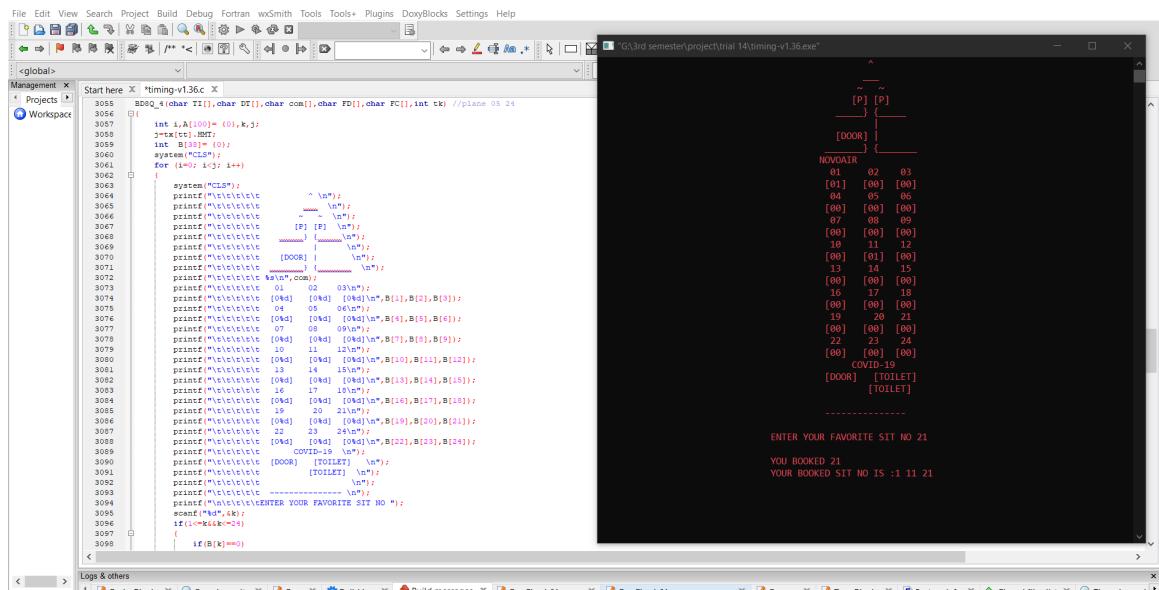


Figure 5.10: CHOOSE SIT

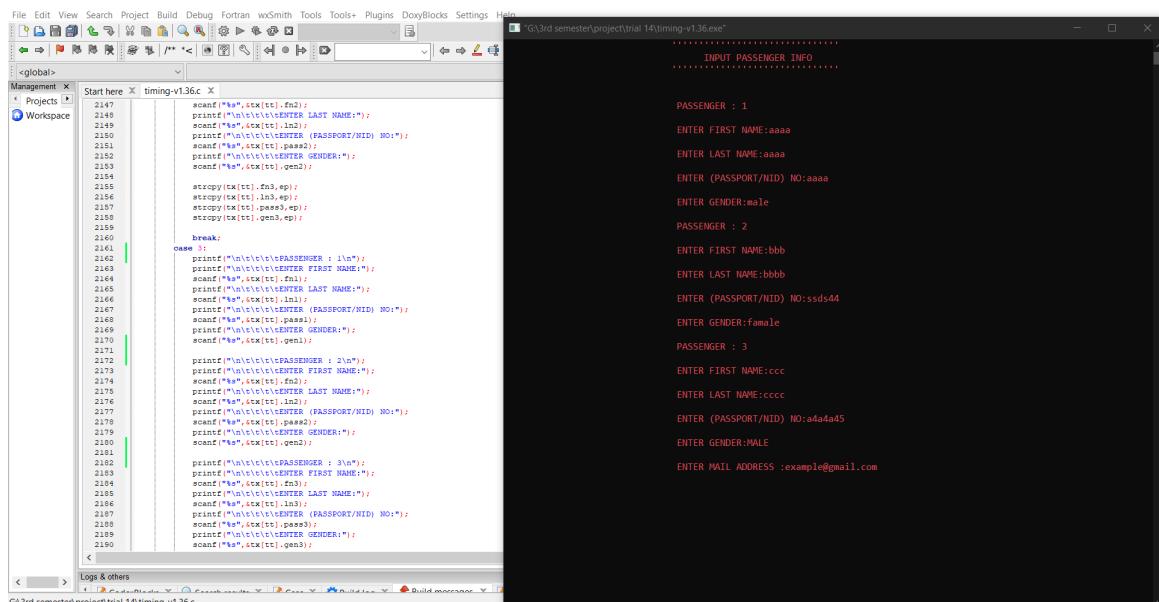


Figure 5.11: INPUT PASSENGER DATA

Figure 5.12: PAYMENT OPTION

The screenshot shows a C/C++ IDE interface with a terminal window titled "WELCOME TO BKASH". The terminal displays two prompts: "ENTER YOUR BKASH NUMBER : 0000000000" and "ENTER YOUR BKASH PIN : ****". The code in the editor is a C program named "timing-v136.c" that performs a暴力破解 (brute-force) attack on a 10-digit BKASH number. It uses a character array "z" to store the password and iterates through each character position "k" from 0 to 9, printing a backspace character "\b \b" at each position to clear previous characters. It checks for specific characters like ENTER, BKSF, TAB, and SPACE. The program then prints the current password attempt and checks if it matches the target payment string "payment". If a match is found, it prints "Match" and exits. The code includes standard input/output functions like system("CLS"), printf, and scanf.

```
*****  
WELCOME TO BKASH  
*****  
  
ENTER YOUR BKASH NUMBER : 0000000000  
ENTER YOUR BKASH PIN : ****  
  
Start here X timing-v136.c X  
-----  
1673 int bkash(int t)  
1674 {  
1675     int v;  
1676     system("COLOR E");  
1677     system("CLS");  
1678     char p[10],ch;  
1679     int i=k=0;  
1680     FILE *fp=fopen("payment.txt","w");  
1681     printf(".....\n");  
1682     printf(".....\n");  
1683     printf(".....\n");  
1684     printf(".....\n");  
1685     printf(".....\n");  
1686     printf(".....\n");  
1687     while(1)  
1688     {  
1689         ch=getchar();  
1690         if(ch==ENTER)  
1691         {  
1692             z.pass[k]='\0';  
1693             break;  
1694         }  
1695         else if(ch==BKSF)  
1696         {  
1697             if(k>0)  
1698             {  
1699                 k--;  
1700                 printf("\b \b");  
1701             }  
1702         }  
1703         else if(ch==TAB||ch==SPACE)  
1704         {  
1705             continue;  
1706         }  
1707         else  
1708         {  
1709             z.pass[k]=ch;  
1710             k++;  
1711             printf("*");  
1712         }  
1713     }  
1714     for(i=sizeof(z),i,payment);  
1715     fclose(payment);  
1716     system("CLS");  
1717 }  
-----  
Log & others  
C:\2nd semester\project\trial\14\minim136.c
```

Figure 5.13: BKASH

```

1673 int bkash(int t)
1674 {
1675     int v;
1676     system("COLOR E");
1677     system("CLS");
1678     char p[10],ch;
1679     int i=0,k=0;
1680     payment=fopen("payment.txt","w");
1681     printf("*****\n");
1682     printf("***** WELCOME TO BKASH *****\n");
1683     printf("*****\n");
1684     printf("ENTER YOUR BKASH NUMBER : ");
1685     scanf("%s",s);
1686     printf("\n");
1687     printf("ENTER YOUR BKASH PIN : ");
1688     while(1)
1689     {
1690         ch=getchar();
1691         if(ch=='ENTER')
1692         {
1693             z.pass[k]=ch;
1694             break;
1695         }
1696         else if(ch=='BKSF')
1697         {
1698             if(k>0)
1699             {
1700                 k--;
1701                 printf("\b \b");
1702             }
1703             else if(ch=='TAB' || ch=='SPACE')
1704             {
1705                 continue;
1706             }
1707             else
1708             {
1709                 z.pass[k]=ch;
1710                 k++;
1711                 printf("%c",ch);
1712             }
1713         }
1714     }
1715     fprintf(txz,z.pass);
1716     fclose(payment);
1717     system("CLS");
1718 }

```

Figure 5.14: BKASH PAY

```

2252
2253     printf(file,"%c\n",ticket[TICKET_CODE - 1]);
2254     printf("DATA SAVED ..\n");
2255     fclose(file);
2256     getch();
2257     system("CLS");
2258     printf("*****\n");
2259     printf("***** PASSENGER INFO *****\n");
2260     printf("*****\n");
2261     printf("***** AAF AIRLINES \\\n\\ THE TRUSTED *****\n");
2262     switch(ta)
2263     {
2264     case 1:
2265         printf("\n");
2266         printf("PASSENGER NAME : %s",tx[tt].fn1);
2267         printf("PASSENGER (PASSPORT/NID) NO : %s",tx[tt].pass1);
2268         printf("GENDER : %s",tx[tt].gen1);
2269         break;
2270     case 2:
2271         printf("\n");
2272         printf("PASSENGER NAME : %s",tx[tt].fn1);
2273         printf("PASSENGER (PASSPORT/NID) NO : %s",tx[tt].pass1);
2274         printf("GENDER : %s",tx[tt].gen1);
2275         break;
2276     case 3:
2277         printf("\n");
2278         printf("PASSENGER NAME : %s",tx[tt].fn2);
2279         printf("PASSENGER (PASSPORT/NID) NO : %s",tx[tt].pass2);
2280         printf("GENDER : %s",tx[tt].gen2);
2281         break;
2282     case 4:
2283         printf("\n");
2284         printf("PASSENGER NAME : %s",tx[tt].fn3);
2285         printf("PASSENGER (PASSPORT/NID) NO : %s",tx[tt].pass3);
2286         printf("GENDER : %s",tx[tt].gen3);
2287         break;
2288     }
2289     printf("\n");
2290     printf("MAIL ADDRESS : example@gmail.com");
2291     printf("PRICE : 20700 TK");
2292     printf("PAYMENT STATUS : PAID");
2293     printf("\n");
2294     printf("FLIGHT TIME : 09 AM");
2295     printf("DESTINATION : DHAKA TO CHOTTOGRAM");
2296     printf("COMPANY : NOVOAIR");
2297     printf("FLIGHT NAME : BOMBARDIER DASH 8 Q400");
2298     printf("NO OF PASSENGER : 3");
2299     printf("SIT NO : |1||11||21|");
2300     printf("TICKET CODE : 0");
2301     printf("\n");
2302     printf("DONE");

```

Figure 5.15: TICKET VIEW

CHARTER AIRLINES

```


        .....  

        CHARTER AIRLINES  

        .....  

        CODE : 1  

        CHARTER NAME : BELL 222  

        FACILITIES : AC AND SIT 6  

        PRICE : 8000 TK(PER HOUR)  

        COMPANY : BASHUNDHARA AIRWAYS  

        CODE : 2  

        CHARTER NAME : BELL 206B JET RANGER  

        FACILITIES : WIFI,AC AND SIT 4  

        PRICE : 9000 TK(PER HOUR)  

        COMPANY : BASHUNDHARA AIRWAYS  

        CODE : 3  

        CHARTER NAME : BELL 206B JET RANGER BLUE  

        FACILITIES : AC AND SIT 6  

        PRICE : 9500 TK(PER HOUR)  

        COMPANY : BANGLADESH BIMAN  

        CODE : 4  

        CHARTER NAME : AUGUSTA WESTLAND 139  

        FACILITIES : AC AND SIT 6  

        PRICE : 7500 TK(PER HOUR)  

        COMPANY : REGENT AIRWAYS  

        CODE : 5  

        CHARTER NAME : EUROCOPTER 120 COLIBRI
    

```

The screenshot shows a C++ IDE interface with the code editor on the left and the output window on the right. The output window displays the results of a program named 'CHARTER AIRLINES' which prints five entries of charter airline information.

Figure 5.16: CHARTER INFORMATION

```


        .....  

        CHARTER AIRLINES  

        .....  

        CHARTER NAME: BELL 206B JET RANGER  

        FACILITIES : WIFI,AC AND SIT 4  

        PRICE : 9000 TK(PER HOUR)  

        COMPANY : BASHUNDHARA AIRWAYS  

        ENTER STARTING TIME(AM) : 7  

        ENTER HOW MANY HOUR : 4  

        ENTER PICKUP AREA : DHAKA
    

```

The screenshot shows a C++ IDE interface with the code editor on the left and the output window on the right. The output window displays the results of a program named 'CHARTER AIRLINES' which prints the details of a charter airline and then prompts the user for three pieces of information: starting time, how many hours, and pickup area.

Figure 5.17: CHARTER TIME

The screenshot shows the Code::Blocks IDE interface with a C project named "trial14". The code editor displays a C program for inputting passenger data. The terminal window shows the execution of the program, prompting for first name, last name, passport number, gender, email address, starting time, and pickup area. The code uses printf for output and scanf for input, with various data structures like arrays and structures defined.

```
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins Doxygen Settings Help  
Management X timing-v1.36.c X  
Start here X timing-v1.36.c X  
4200 charter()  
4201 {  
4202 system("CLS");  
4203 charter();  
4204 int aa,bb,cc;  
4205 char ab[40];  
4206 print("*****  
4207 printf("%c",CHAR)  
4208 printf("%c",CHAR)  
4209 for(int i=0; i<def.chpna; i++)  
4210 {  
4211     printf("%c",ab[i]);  
4212     print("%c",ab[i]);  
4213     printf("%c",CHARTER_NAME : %s\n",d1); chname;  
4214     printf("%c",CHARTER_FACILITIES : %s\n",d1); chfaci;  
4215     printf("%c",CHARTER_PRICE : %d TK(PER HOUR)\n",d1);  
4216     printf("%c",CHARTER_COMPANY : %s\n",d1); cop;  
4217 }  
4218 printf("\n\n\t\t\tENTER YOUR CHOICE >> ");  
4219 scanf("%d",&a);  
4220 tx[t].ccc=a;  
4221 system("CLS");  
4222 print("*****  
4223 printf("%c",CHAR)  
4224 print("%c",CHARTER_NAME : %s\n",d1); chname;  
4225 print("%c",CHARTER_FACILITIES : %s\n",d1); chfaci;  
4226 printf("%c",CHARTER_PRICE : %d TK(PER HOUR)\n",d1);  
4227 printf("%c",CHARTER_COMPANY : %s\n",d1); cop;  
4228 print("%c",ENTER STARTING TIME(HH) : ");  
4229 scanf("%d",&b);  
4230 tx[t].atcc=b;  
4231 print("*****  
4232 print("%c",ENTER HOW MANY HOUR : ");  
4233 scanf("%d",&c);  
4234 tx[t].hh=c;  
4235 print("*****  
4236 print("%c",ENTER PICKUP AREA : ");  
4237 scanf("%s",&d);  
4238 strcpy(tx[t].piaza,d);  
4239 savngcharst(d,aa).chname,d[aa].chfaci,d[aa].cop,d[aa].ch  
4240 cargo()  
4241 adding()  
4242 addone()  
4243  
Log & others  
G:\3rd semester\project\trial 14\timing-v1.36.c Build meowwww C/C++ Windows (CR+LF) WINDOWS-1252 Line 2182, Col 44, Pos 63266 Insert Read/Write default
```

Figure 5.18: INPUT CHARTER PASSENGER DATA

Figure 5.19: PAYMENT OPTION

The screenshot shows a C++ IDE interface with a code editor and a terminal window. The terminal window displays:

```
*****  
WELCOME TO NAGAD  
*****  
ENTER YOUR NAGAD NUMBER : 0000000000  
ENTER YOUR NAGAD PIN : ****
```

The code editor shows a C program named timing-v1.36.c. The code is a simple terminal-based application for a payment system. It includes functions for opening a file, reading input from the terminal, and writing output to the terminal.

Figure 5.20: NOGOD

The screenshot shows a C++ IDE interface with a code editor and a terminal window. The terminal window displays:

```
*****  
NAGAD PAYBILL  
*****  
YOUR BILL : 36000 TK  
ENTER AMOUNT :36000  
ENTER NAGAD PIN FOR CONFORM :****
```

The code editor shows a C program named timing-v1.36.c. This version of the application adds a bill calculation and confirmation steps. It includes functions for opening a file, reading input from the terminal, and writing output to the terminal.

Figure 5.21: NOGOD PAY

```

AAF AIRLINES
THE TRUSTED AIRLINES BOOKING SERVICE

NAME : AA AA
PASSPORT/NID NO: AAAA
GENDER : MALE

MAIL ADDRESS : example@gmail.com
PRICE : 36000 TK
PAYMENT STATUS : PAID

HOUR : 4
STARTING TIME : 7 (AM)
FROM : DHAKA
COMPANY : BASHUNDHARA AIRWAYS
CHARTER NAME : BELL 206B JET RANGER
FACILITIES : WIFI,AC AND SIT 4

DATA SAVED ..
DONE

```

Figure 5.22: CHARTER TICKET

```

CARGO AIRLINES

CHOOSE COMPANY

CODE : 1
COMPANY : DHL
PRICE : (DISTENCE X WET X 12)

CODE : 2
COMPANY : GOLBAL AIR COURIER
PRICE : (DISTENCE X WET X 10)

CODE : 3
COMPANY : S&F COURIER
PRICE : (DISTENCE X WET X 15)

ENTER YOUR CHOICE :

```

Figure 5.23: CARGO INFORMATION

5.1.2 ADMIN USER

The screenshot shows a C programming environment with the following details:

- Code Area:** The code is for a program named "timing.v136.c". It includes functions for calculating shipping costs based on distance, weight, and volume.
- Output Area:** The right side shows the execution of the program. It asks for input, displays company and price information, and lists shipping options from Dhaka to Chottogram and Sylhet.

```
FROM / TO
COMPANY : DHL
PRICE : (DISTANCE X WET X 4) + (H x COROPRICE)

FROM :
1 : DHAKA
2 : CHOTTOGRAM
3 : SYLHET

ENTER YOUR CHOICE :1
FROM : DHAKA

TO :
2 : CHOTTOGRAM
3 : SYLHET

ENTER YOUR CHOICE :2
TO : CHOTTOGRAM
```

Figure 5.24: SENDER/RECEIVER DESTINATION

The screenshot shows a C++ development environment with the following details:

- File Menu:** File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxygenBlocks, Settings, Help.
- Toolbar:** Includes icons for file operations like Open, Save, Build, Run, and others.
- Left Panel:** Shows the **Management** tab, **Projects** section with "timing-v1.36.c" selected, and the **Workspace** section.
- Code Editor:** Displays the source code for "timing-v1.36.c". The code handles file operations (opening "CARGO TICKET HISTORY.txt"), prints error messages if files don't exist, and prompts for sender and receiver data (first name, last name, gender, email). It also handles product data input.
- Output Window:** Shows the program's output:

```
*****  
INPUT SENDER DATA  
*****  
ENTER SENDER FIRST NAME:A  
ENTER SENDER LAST NAME:A  
ENTER SENDER GENDER:male  
ENTER SENDER MAIL ADDRESS:exmaple@gmail.com  
*****  
INPUT RECEIVER DATA  
*****  
ENTER RECEIVER FIRST NAME:B  
ENTER RECEIVER LAST NAME:B  
ENTER RECEIVER GENDER:male  
ENTER RECEIVER MAIL ADDRESS:B@mail.com  
*****  
INPUT PRODUCT DATA  
*****  
PRODUCT TYPE : B  
*****
```
- Bottom Status Bar:** Shows the path "G:\3rd semester\project\trial 14\Timing-v1.36.c", the build configuration "Debug", and the message "NDWS-129 - Line 2325, Col 2, Pos 71454".

Figure 5.25: SENDER INFORMATION

The screenshot shows the Code::Blocks IDE interface. The left pane displays the C source code for 'timing-v1.36.c'. The right pane shows the terminal window with the program's output. The output reads:

```
*****  
INPUT RECEIVER DATA  
*****  
  
ENTER RECEIVER FIRST NAME:B  
ENTER RECEIVER LAST NAME:B  
ENTER RECEIVER GENDER:male  
ENTER RECEIVER MAIL ADDRESS:example2@gmail.com
```

The code in the terminal window corresponds to lines 2411-2454 of the source code, which handles user input for receiver details.

Figure 5.26: RECEIVER INFORMATION

The screenshot shows the Code::Blocks IDE interface. The left pane displays the C source code for 'timing-v1.36.c'. The right pane shows the terminal window with the program's output. The output reads:

```
*****  
INPUT PRODUCT DATA  
*****  
  
PRODUCT TYPE : solid  
INPUT WFT : 15
```

The code in the terminal window corresponds to lines 2433-2454 of the source code, which handles user input for product details.

Figure 5.27: PRODUCT DETAILS

The screenshot shows the Code::Blocks IDE interface with a C project named "timing-v1.36.c". The code implements a payment system with three options: BKASH, NAGAD, and ROCKET. It uses a sleep function to delay between menu options. The output window displays the payment menu and the user's choice.

```
*****PAYMENT*****\n\n1. BKASH\n2. NAGAD\n3. ROCKET\n\nENTER YOUR CHOICE :\n\nENTER YOUR CHOICE :
```

Figure 5.28: PAYMENT OPTION

```
*****  
WELCOME TO ROKET  
*****  
ENTER YOUR ROKET NUMBER : 0000000000  
ENTER YOUR ROKET PIN : ****
```

```
<global>  
Management Start here > "Timing-v1.36.c"   
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help  
1812 int rocket(int t)  
1849 {  
1850     int v;  
1851     system("COLOR 0B");  
1852     system("CLS");  
1853     cout<<t<<endl;  
1854     int i=1,k=0;  
1855     int l=1,k=0;  
1856     FILE *payment=fopen("payment.txt","w");  
1857     printf("*****\n");  
1858     printf("***** WELCOME TO ROKET *****\n");  
1859     printf("*****\n");  
1860     cout<<"\n";  
1861     cout<<"ENTER YOUR ROKET NUMBER : ";  
1862     cin>>i;<<"\n";  
1863     cout<<"ENTER YOUR ROKET PIN : ";  
1864     while(1)  
1865     {  
1866         ch=getchar();  
1867         if(ch=='ENTER')  
1868         {  
1869             z.pass[k]=ch;  
1870             break;  
1871         }  
1872         else if(ch=='BSF')  
1873         {  
1874             if(k>0)  
1875             {  
1876                 K-=1;  
1877                 printf("\b \b");  
1878             }  
1879             else if(ch==TAB||ch==SPACE)  
1880             {  
1881                 continue;  
1882             }  
1883             else  
1884             {  
1885                 z.pass[k]=ch;  
1886                 k+=1;  
1887                 printf("%c",z.pass[k]);  
1888             }  
1889         }  
1890         fwrite(&z.sizeof(z),1,payment);  
1891     }  
1892     fclose(payment);  
1893 }
```

Figure 5.29: ROCKET

The screenshot shows the Code::Blocks IDE interface with the following details:

- Title Bar:** timing-v1.36 - Code::Blocks 2003
- Menu Bar:** File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, Help
- Toolbars:** Standard, Editor, Navigator, Project, Build, Run, Help.
- Code Editor:** Displays the source code for "timing-v1.36.c". The code is a C program for a rocket paybill system. It includes functions for reading rocket number and PIN from the user, and writing payment details to a file. The code uses standard C libraries like `stdio.h`, `string.h`, and `math.h`.
- Output Window:** Shows the execution results:
 - *****ROCKET PAYBILL*****
 - WELCOME TO ROCKET
 - ENTER YOUR ROCKET NUMBER : 1234567890
 - ENTER YOUR ROCKET PIN : 1234
 - ENTER AMOUNT :43920 TK
 - ENTER ROCKET PIN FOR CONFORM : ****
- Logs & others:** Shows build logs and other information.

Figure 5.30: ROCKET PAY

Figure 5.31: CARGO TICKET

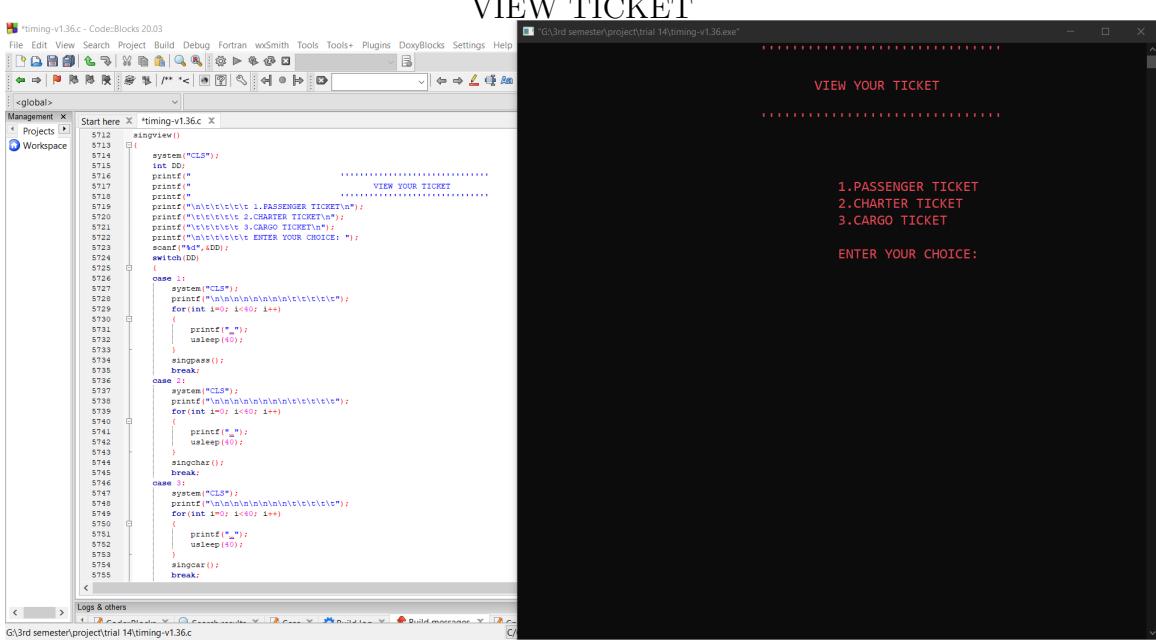


Figure 5.32: VIEW USER TICKET

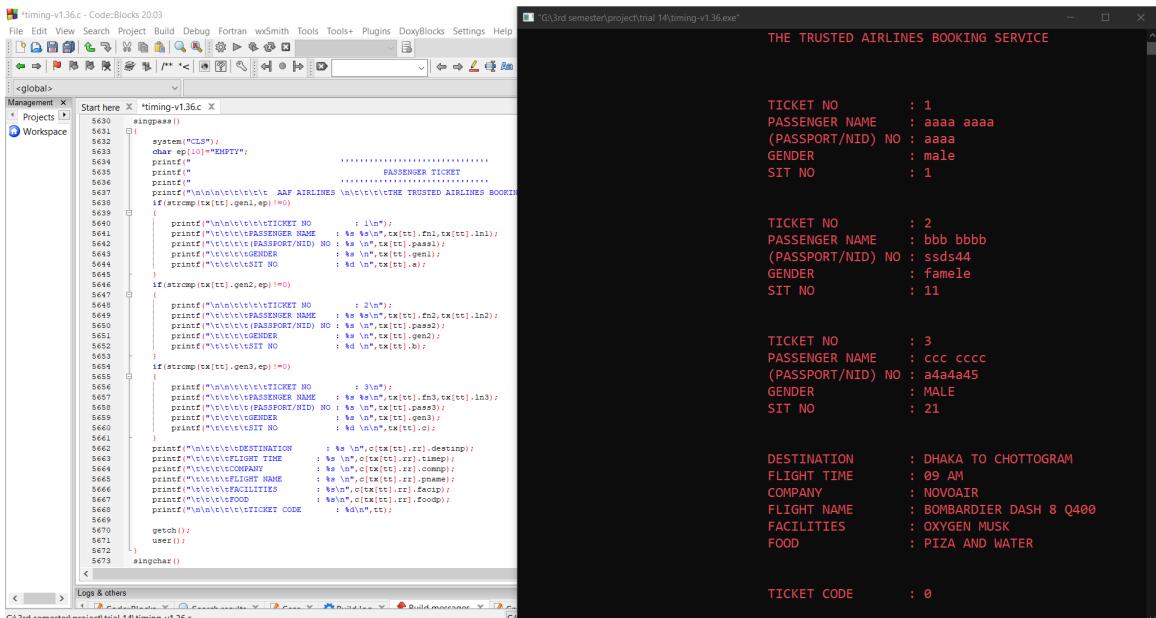


Figure 5.33: VIEW USER PASSENGER TICKET

```

Timing-v1.36.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management <global> Start here X *timing-v1.36.c X
5673 singchar()
5674 system("CLS");
5675 print(".....");
5676 print(".....");
5677 print(".....");
5678 print(".....");
5679 print(".....");
5680 print(".....");
5681 print(".....");
5682 print(".....");
5683 print(".....");
5684 print(".....");
5685 print(".....");
5686 print(".....");
5687 print(".....");
5688 print(".....");
5689 print(".....");
5690 getch();
5691 user();
5692 }
5693 singcar();
5694 {
5712 singview();
5713 vtc();
5764 vtc();
5765 {
5824 singpass();
5825 singchar();
5826 singchar();
5827 singcar();
5828 singcar();
5829 singcar();
5830 singcar();
5831 singcar();
5832 singcar();
5833 singcar();
5834 singcar();
5835 singcar();
5836 singcar();
5837 singcar();
5838 singcar();
5839 singcar();
5840 singcar();
5841 singcar();
5842 singcar();
5843 singcar();
5844 singcar();
5845 singcar();
5846 singcar();
5847 singcar();
5848 singcar();
5849 singcar();
5850 singcar();
5851 singcar();
5852 singcar();
5853 singcar();
5854 singcar();
5855 singcar();
5856 singcar();
5857 singcar();
5858 singcar();
5859 singcar();
5860 singcar();
5861 singcar();
5862 singcar();
5863 singcar();
5864 singcar();
5865 singcar();
5866 singcar();
5867 singcar();
5868 singcar();
5869 singcar();
5870 singcar();
5871 singcar();
5872 singcar();
5873 singcar();
5874 singcar();
5875 singcar();
5876 singcar();
5877 singcar();
5878 singcar();
5879 singcar();
5880 singcar();
5881 singcar();
5882 singcar();
5883 singcar();
5884 singcar();
5885 singcar();
5886 singcar();
5887 singcar();
5888 singcar();
5889 singcar();
5890 singcar();
5891 singcar();
5892 singcar();
5893 singcar();
5894 singcar();
5895 singcar();
5896 singcar();
5897 singcar();
5898 singcar();
5899 singcar();
5900 adddis();
5909 addcr();
5929 addcr();
5930 addcr();
5950 addcc();
5951 addcc();
5952 addcc();
5974 addccif();
5975 addccif();
6029 adpro();
<
Logs & others

```

Figure 5.34: VIEW USER CHARTER TICKET

```

Timing-v1.36.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management <global> Start here X *timing-v1.36.c X
5664 singchar();
5665 system("CLS");
5666 print(".....");
5667 print(".....");
5668 print(".....");
5669 print(".....");
5670 print(".....");
5671 print(".....");
5672 print(".....");
5673 print(".....");
5674 print(".....");
5675 print(".....");
5676 print(".....");
5677 print(".....");
5678 print(".....");
5679 print(".....");
5680 print(".....");
5681 print(".....");
5682 print(".....");
5683 print(".....");
5684 print(".....");
5685 print(".....");
5686 print(".....");
5687 print(".....");
5688 print(".....");
5689 print(".....");
5690 getch();
5710 user();
5711 }
5712 singview();
5713 vtc();
5764 vtc();
5765 {
5824 singpass();
5825 singchar();
5826 singchar();
5827 singcar();
5828 singcar();
5829 singcar();
5830 singcar();
5831 singcar();
5832 singcar();
5833 singcar();
5834 singcar();
5835 singcar();
5836 singcar();
5837 singcar();
5838 singcar();
5839 singcar();
5840 singcar();
5841 singcar();
5842 singcar();
5843 singcar();
5844 singcar();
5845 singcar();
5846 singcar();
5847 singcar();
5848 singcar();
5849 singcar();
5850 singcar();
5851 singcar();
5852 singcar();
5853 singcar();
5854 singcar();
5855 singcar();
5856 singcar();
5857 singcar();
5858 singcar();
5859 singcar();
5860 singcar();
5861 singcar();
5862 singcar();
5863 singcar();
5864 singcar();
5865 singcar();
5866 singcar();
5867 singcar();
5868 singcar();
5869 singcar();
5870 singcar();
5871 singcar();
5872 singcar();
5873 singcar();
5874 singcar();
5875 singcar();
5876 singcar();
5877 singcar();
5878 singcar();
5879 singcar();
5880 singcar();
5881 singcar();
5882 singcar();
5883 singcar();
5884 singcar();
5885 singcar();
5886 singcar();
5887 singcar();
5888 singcar();
5889 singcar();
5890 singcar();
5891 singcar();
5892 singcar();
5893 singcar();
5894 singcar();
5895 singcar();
5896 singcar();
5897 singcar();
5898 singcar();
5899 singcar();
5900 addcr();
5930 addcr();
5950 addcc();
5951 addcc();
5952 addcc();
5974 addccif();
5975 addccif();
6029 adpro();
6030 adpro();
6110 adpro();
6111 edicrf();
<
Logs & others

```

Figure 5.35: VIEW USER CARGO TICKET

```

DELETING TICKET
1. PASSENGER TICKET
2. CHARTER TICKET
3. CARGO TICKET
4. PREVIOUS PAGE
>>
1. PASSENGER TICKET
PASSENGER NAME : aaaa aaaa
(PASSPORT/NID) NO : aaaa
GENDER : male
SIT NO : 1
MAIL ADDRESS : example@gmail.com

WHICH TICKET DO YOU WANT TO DELETE >>
send("sd",4);
if(i==1)
{
    if(strcmp(tx[tt].gen1,ep)!=0)
    {
        ...
    }
}

```

Figure 5.36: DELETE USER TICKET

```

YOU HAVE 3 TICKET

TICKET NO 1
PASSENGER NAME : aaaa aaaa
(PASSPORT/NID) NO : aaaa
GENDER : male
SIT NO : 1

TICKET NO 2
PASSENGER NAME : bbb bbbb
(PASSPORT/NID) NO : ssds44
GENDER : female
SIT NO : 11

TICKET NO 3
PASSENGER NAME : ccc cccc
(PASSPORT/NID) NO : a444445
GENDER : MALE
SIT NO : 21

MAIL ADDRESS : example@gmail.com

WHICH TICKET DO YOU WANT TO DELETE >>
send("sd",4);
if(i==1)
{
    if(strcmp(tx[tt].gen1,ep)!=0)
    {
        ...
    }
}

```

Figure 5.37: DELETE USER PASSENGER TICKET

Figure 5.38: DELETE USER CHARTER TICKET

*timing-v1.36.c - Code::Blocks 2003

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Management Projects Workspace

Start here > timing-v1.36.c

```
else if(N==3)
{
    int ch;
    system("CLS");
    printf("..... CARGO .....");
    printf("..... DESTINCE .....");
    printf("..... FROM .....");
    printf("..... TO .....");
    printf("..... TICKET CODE .....");
    printf("..... WET .....");
    printf("..... DESTENCE .....");
    printf("..... TYPE .....");
    printf("..... FROM .....");
    printf("..... TO .....");
    printf("..... COMPANY .....");
    printf("..... TICKET CODE .....");
    printf("..... Are you sure to delete your CARGO APPLICATION ?\n");
    printf("..... 1. YES            2.NO\n");
    printf("..... Enter Choice:\n");
    scanf("%c", &ch);
    if(ch=='1')
    {
        strcpy(tx[tx].rfm,ep);
        strcpy(tx[tx].fln,ep);
        strcpy(tx[tx].fgen,ep);
        strcpy(tx[tx].fmail,ep);
        strcpy(tx[tx].rfn,ep);
        strcpy(tx[tx].rln,ep);
        strcpy(tx[tx].rgen,ep);
        strcpy(tx[tx].rmail,ep);
        strcpy(tx[tx].ryp,ep);
        tx[tx].disc=0;
        tx[tx].wetc=0;
        strcpy(tx[tx].fro,ep);
        strcpy(tx[tx].tob,ep);
        printf("\n\n\nYOUR CARGO APPLICATION DELETE SUCCESSFULLY ");
        getch();
        seavtio();
        user();
    }
}
```

AAF AIRLINES
THE TRUSTED AIRLINES BOOKING SERVICE

SENDER

| | | |
|--------------|---|-------------------|
| NAME | : | A A |
| GENDER | : | male |
| MAIL ADDRESS | : | exmaple@gmail.com |

RECEIVER

| | | |
|--------------|---|--------------------|
| NAME | : | B B |
| GENDER | : | male |
| MAIL ADDRESS | : | example2@gmail.com |

WET : 15
DESTENCE : 244
TYPE : solid
FROM : DHAKA
TO : CHOTTOGRAM
COMPANY : DHL

TICKET CODE : 0

Are you sure to delete your CARGO APPLICATION

1. YES 2.NO

Enter Choice:1

Log & other

YOUR CARGO APPLICATION DELETE SUCCESSFULLY

Figure 5.39: DELETE USER CARGO TICKET

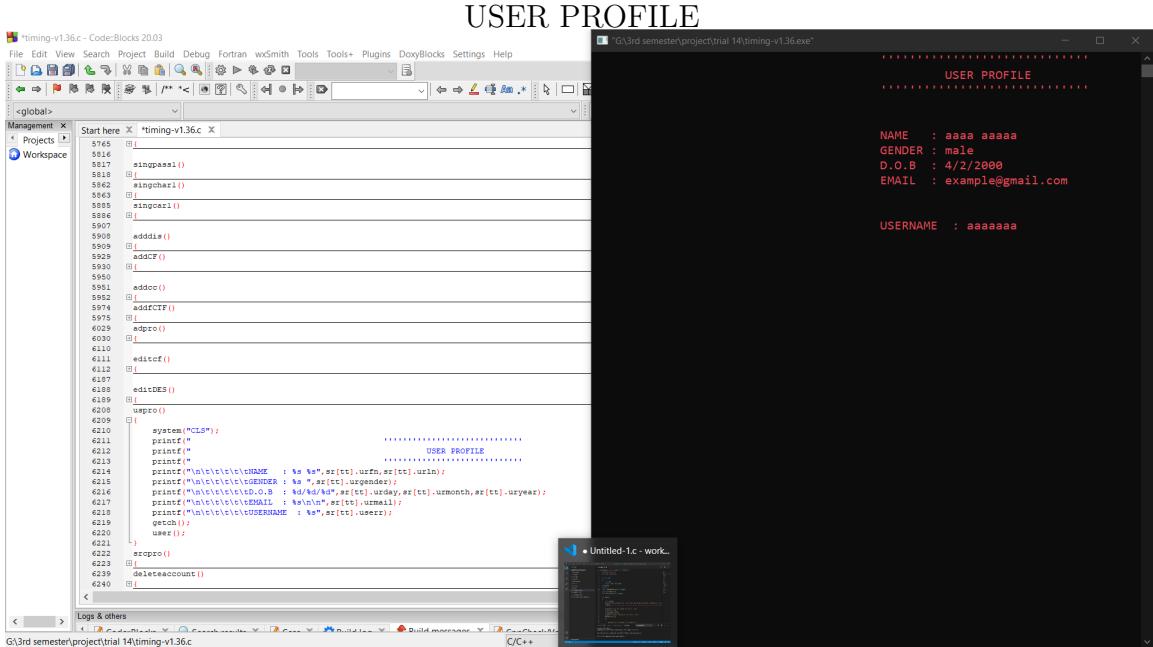


Figure 5.40: USER PROFILE

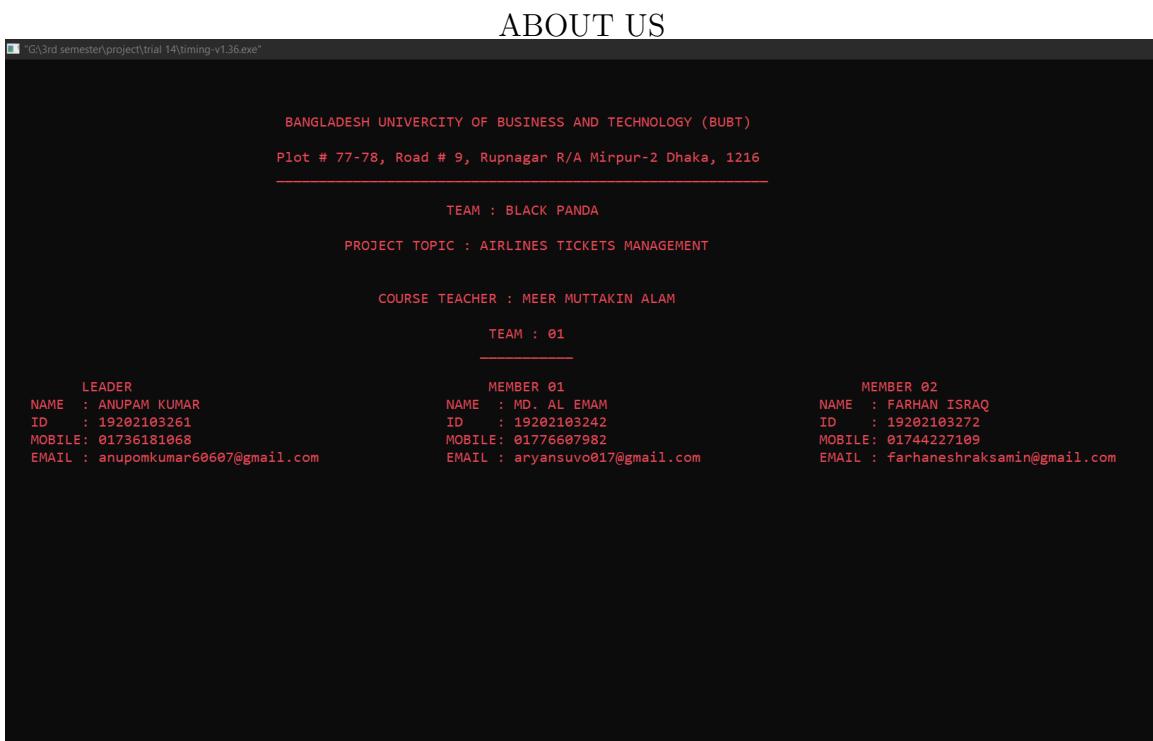
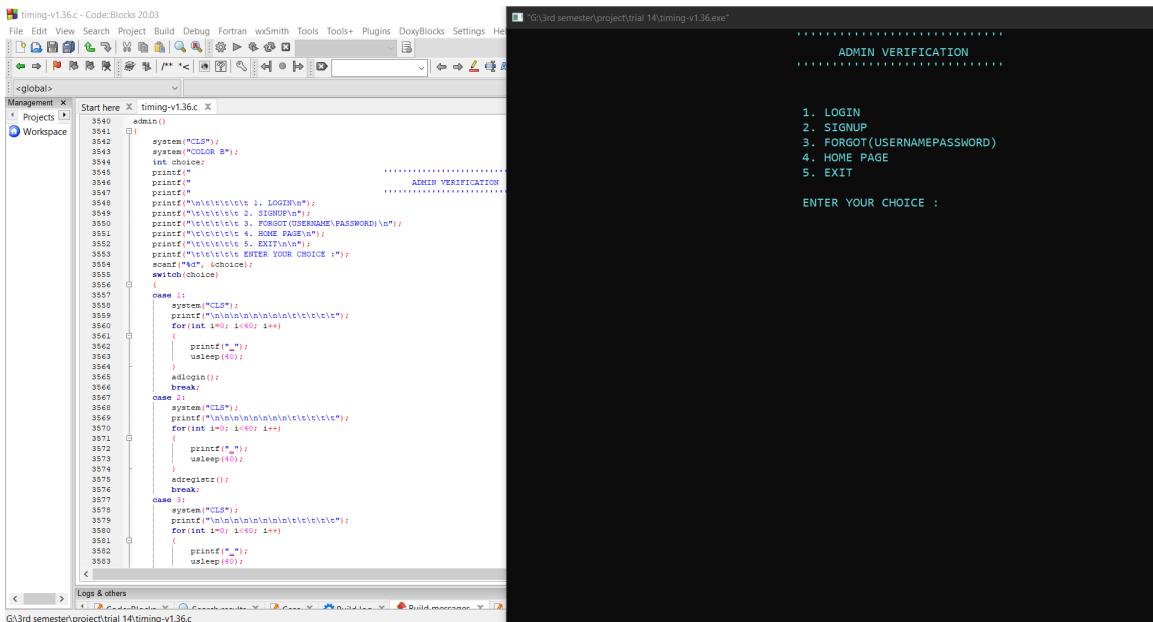


Figure 5.41: ABOUT US



The screenshot shows the Code::Blocks IDE with two windows. The left window displays the C code for the 'admin()' function, which handles user input for choice and performs various operations like logging in, signing up, or exiting. The right window shows a terminal titled 'ADMIN VERIFICATION' with a menu:

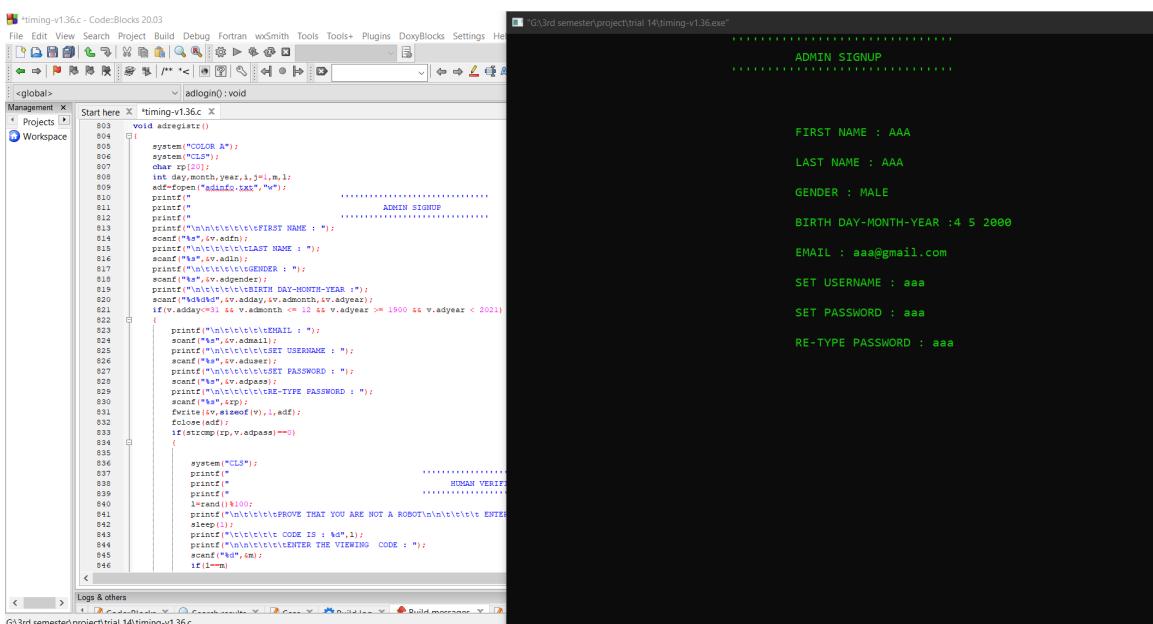
```

ADMIN VERIFICATION
1. LOGIN
2. SIGNUP
3. FORGOT(USERNAMEPASSWORD)
4. HOME PAGE
5. EXIT

ENTER YOUR CHOICE :

```

Figure 5.42: ADMIN FRONT PAGE



The screenshot shows the Code::Blocks IDE with two windows. The left window displays the C code for the 'adlogin()' function, which handles user input for first name, last name, gender, birth date, email, and password. The right window shows a terminal titled 'ADMIN SIGNUP' with the following prompts:

```

FIRST NAME : AAA
LAST NAME : AAA
GENDER : MALE
BIRTH DAY-MONTH-YEAR :4 5 2000
EMAIL : aaa@gmail.com
SET USERNAME : aaa
SET PASSWORD : aaa
RE-TYPE PASSWORD : aaa

```

Figure 5.43: SIGN UP ADMIN

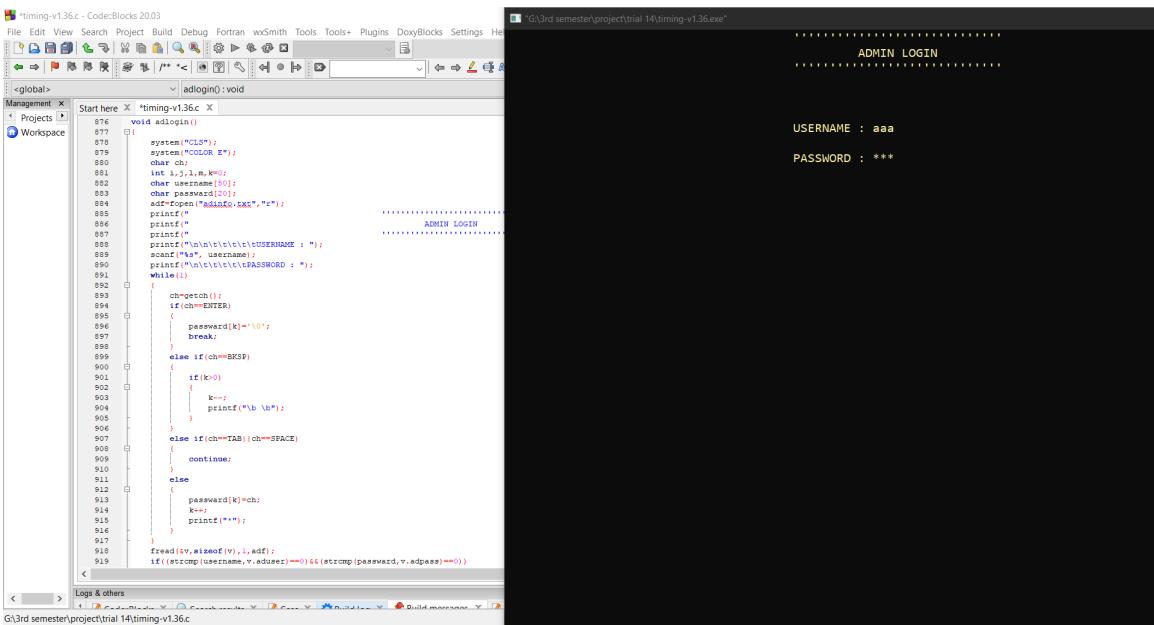


Figure 5.44: LOGIN ADMIN

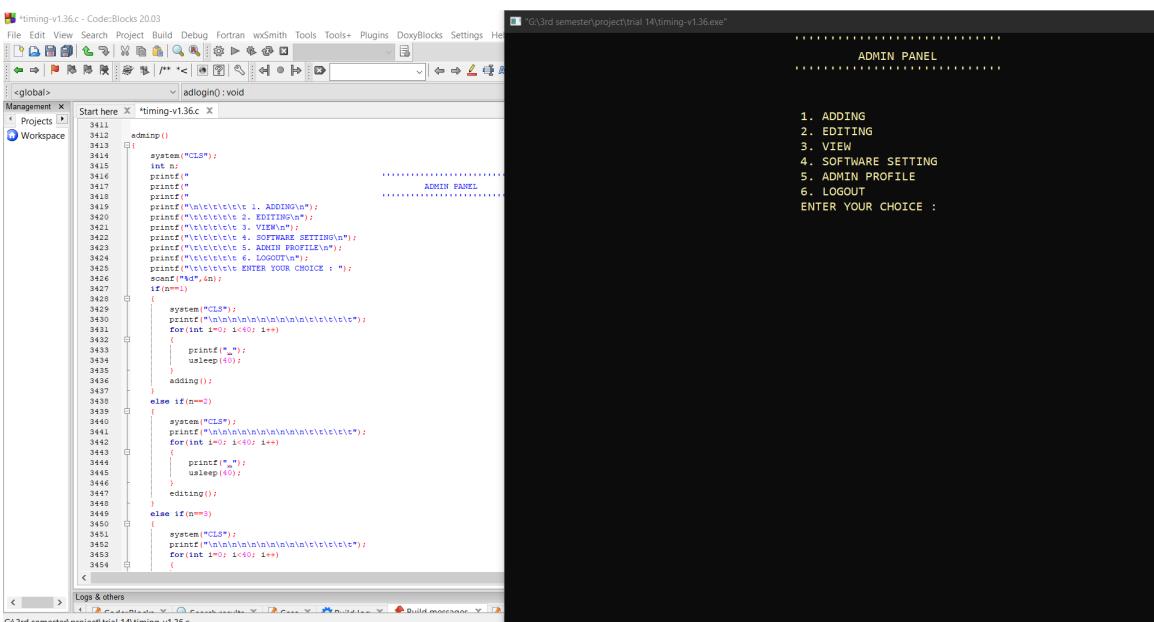


Figure 5.45: HOMEPAGE ADMIN

The screenshot shows the Code::Blocks IDE interface. On the left, the code editor displays the C file `timing-v1.36.c`. The code defines a function `adding()` which prints a menu for adding data to a system. The right pane shows a terminal window titled "ADDING PANEL" with the following text:

```

..... ADDING PANEL .....
```

1. ROOT
2. TIME
3. COMPANY
4. FOOD
5. PASSENGER FACILITIES
6. CARGO COMPANY
7. CHARTER FACILITIES
8. FLIGHTS DESTINATION
9. CHARTER FLIGHTS
10. <--

ENTER YOUR CHOICE :

Figure 5.46: ADDING PANEL

The screenshot shows the Code::Blocks IDE interface. On the left, the code editor displays the C file `timing-v1.36.c`. The code defines a function `editing()` which prints a menu for editing data in the system. The right pane shows a terminal window titled "EDITING PANEL" with the following text:

```

..... EDITING PANEL .....
```

1. ROOT
2. TIME
3. COMPANY
4. FOOD
5. PASSENGER FACILITIES
6. CARGO COMPANY
7. CHARTER FACILITIES
8. DESTINATION
9. CHARTER FLIGHTS
10. <--

ENTER YOUR CHOICE :

Figure 5.47: EDITING PANEL

Figure 5.48: VIEWING PANEL

The screenshot shows the Code::Blocks IDE interface with the following details:

- Title Bar:** "timing-v1.36.c - Code::Blocks 2003".
- Menu Bar:** File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, Doxygen, Settings, Help.
- Toolbar:** Standard file operations like Open, Save, Print, Find, Replace, etc.
- Project Explorer:** Shows a single project named "timing-v1.36.c" under "Projects".
- Code Editor:** Displays the source code for "timing-v1.36.c". The code includes:
 - Definitions for viewing(), system("CLS"), and basic().
 - A loop for "SOFTWARE SETTING" that prints a series of carriage returns and line feeds, uses sleep(4000), and then prints a series of carriage returns and line feeds again.
 - A section for "RESETTING..." which prints a series of carriage returns and line feeds, uses sleep(4000000), and then prints another series of carriage returns and line feeds.
 - A main loop with a nested if block that prints carriage returns and line feeds, uses sleep(4000000), and then prints carriage returns and line feeds again.
- Status Bar:** Shows the build status as "Build successful" and the current file as "C:\3rd semester\project\trial\1\timing-v1.36.c".
- Bottom Status Bar:** Shows memory usage (1.4M/1.4M) and the current line (176).
- Help Bar:** "SOFTWARE SETTING".
- Log & Other:** A tabbed interface for logs and other project-related information.

Figure 5.49: SOFTWARE SETTING

The screenshot shows the Code::Blocks IDE interface. On the left, the project tree shows a single file named "timing-v1.36.c". The code editor window displays a C program. The right side shows a terminal window titled "G:\3rd semester\project\trial 14\timing-v1.36.exe" with the title "ADMIN PROFILE". The terminal displays a menu with four options:

```

ADMIN PROFILE
1. VIEW PROFILE
2. CHANGE PROFILE INFO
3. SETTING
4. PREVIOUS PAGE

Enter Choice:

```

Figure 5.50: ADMIN PROFILE

The screenshot shows the Code::Blocks IDE interface. The project tree and code editor are identical to Figure 5.50. The terminal window now displays specific profile data:

```

NAME : AAA AAA
GENDER : MALE
D.O.B : 4/5/2000
EMAIL : aaa@gmail.com

USERNAME : aaa

```

Figure 5.51: ADMIN PROFILE DATA

Figure 5.52: ADMIN PROFILE DATA SETTING 1

The screenshot shows the Code::Blocks IDE interface with a C project named "timing-v1.36.c". The code implements a menu system with options for changing username, password, deleting account, viewing previous page, main menu, and exiting. The menu is displayed in a terminal window titled "GENERAL SETTING".

```
timing-v1.36.c - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Management x timing-v1.36.c x
Projects < global
Workspace

Start here x timing-v1.36.c x

1000 void adgenclac()
1001 {
1002     system("CLS");
1003     int c;
1004     printf("*****\n***** GENERAL SETTING *****\n*****");
1005     printf("*****\n*****");
1006     printf("1. CHANGE USERNAME\n");
1007     printf("2. CHANGE PASSWORD\n");
1008     printf("3. DELETE ACCOUNT\n");
1009     printf("4. PREVIOUS PAGE\n");
1010     printf("5. MAIN MENU\n");
1011     printf("6. EXIT\n");
1012     printf("ENTER CHOICE : ");
1013     scanf("%d", &c);
1014     switch(c)
1015     {
1016         case 1:
1017             system("CLS");
1018             printf("Name:\n");
1019             for(int i=0; i<40; i++)
1020             {
1021                 printf(".");
1022                 usleep(1000);
1023             }
1024             system("CLS");
1025             adchngr_user();
1026             break;
1027         case 2:
1028             system("CLS");
1029             printf("Pass:\n");
1030             for(int i=0; i<40; i++)
1031             {
1032                 printf(".");
1033                 usleep(1000);
1034             }
1035             system("CLS");
1036             adchngr_pass();
1037             break;
1038         case 3:
1039             system("CLS");
1040             printf("Name:\n");
1041             for(int i=0; i<40; i++)
1042             {
1043                 printf(".");
1044                 usleep(1000);
1045             }
1046             system("CLS");
1047             adchngr_pass();
1048             break;
1049     }
1050 }

Log & others
G:\3rd semester\project\trial 1\Timing-v1.36.c
Build now
Run
C:\Windows\system32\Timing-v1.36.exe

GENERAL SETTING

1. CHANGE USERNAME
2. CHANGE PASSWORD
3. DELETE ACCOUNT
4. PREVIOUS PAGE
5. MAIN MENU
6. EXIT

ENTER CHOICE :
```

Figure 5.53: ADMIN PROFILE DATA SETTING 2

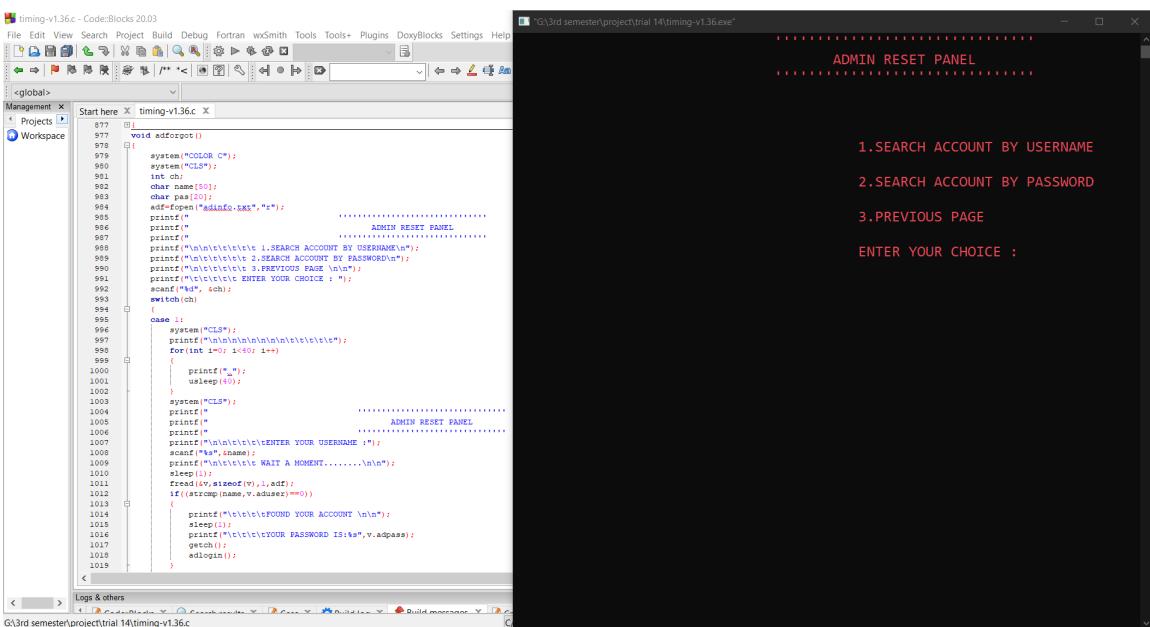


Figure 5.54: ADMIN FORGOT

Chapter 6

Conclusion and Future Work

6.1 Conclusions

In recent time airlines ticket service company is one of the most important company for travelers. Searching for a ticket need a lot of time and also boring. Travelers wants Budget saving ticket , one the others hand some travelers wants more comfortable plane, some wants to book a full private jet. Emergency patient need to take hospital by air ambulance in some case . Actully time is most important things in our life and ticket services company save travelers time. Our project is very efficient for further use. This software protected user data very carefully. Travelers can easily buy their favorite ticket from this software.

6.2 Future Scope of Our Thesis

- Now we wants to upgrade this software properly . We wants to add some more function in this software.
- We will also add blocking(company/plane) system in this software.
- We will add air ambulance serive in this project .

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