2019 AD

Bus Ticketing and Reservation System

TEAM BTRS
Kusmakhar Pathak
Yubaeraj Pathak
Amit Ray
Amrita Rai

BUS TICKETING AND RESERVATION SYSTEM
PROJECT PROPOSAL REPORT
on
C language

SUBMITED BY

1st Year Student

Kusmakhar Pathak

Yubaraj Timalsina

Amit Ray

Amrita Rai

Sunway International Business School

Infrastructure University Kuala Lumpur

Maitidevi, Kathmandu, Nepal

SUBMITED TO

Sunway International Business School

Infrastructure University Kuala Lumpur

Maitidevi, Kathmandu, Nepal

Title	:	Bus Ticketing and Reservation System
Date Submitted	:	February 5, 2019
Investigator	:	Er. Amar Subedi

Signed:

_____

Investigator:
Er. Amar Subedi

ACKNOWLEDGEMENT

The success and outcome of this project required a lot of guidance and assistance from many people and I am extremely privileged to have got this all along the completion of my project. All that I have done is only due to such supervision and assistance and I would not forget to thank them.

We respect and thank **Er. Som Shrestha (HOD)**, for providing me an opportunity to do the project work in college and giving us all support and guidance, which made me complete the project duly. I am extremely thankful to our team for providing such a nice support and guidance, although they have busy schedule managing the corporate affairs.

We owe our deep gratitude to our project guide **Er. Amar Subedi**, who took keen interest on our project work and guided us all along, till the completion of our project work by providing all the necessary information for developing a good system.

We would not forget to remember Sunway International Business School for their encouragement and more over for their timely support and guidance till the completion of our project work.

We heartily thank our internal project guide, **Er. Som Shrestha (HOD)** for his guidance and suggestions during this project work.

We are thankful to and fortunate enough to get constant encouragement, support and guidance from all Teaching staffs of Sunway International Business School which helped us in successfully completing our project work. Also, I would like to extend our sincere esteems to all staff in laboratory for their timely support.

Thank you,
1st Year Student:

Kusmakhar Pathak
Yubaraj Timalsina
Amit Ray
Amrita Rai

ATTRIBUTES

In aspect of today's transportation system in Nepal is Roadway. Roadway is the main transportation in Nepal, so it is important to improvement in their system. So, there is need of ticket to travel from one place to another. So, this system is developing to improve ticket system. This system manages all the ticket system where passengers can buy, book, cancel and check status of the ticket.

Firstly, this system works only on desktop version. If this system works properly this system also available on, we based which bring more facility to the passenger to buy or book or cancel ticket through online.

TABLE OF CONTENT

LIST OF FIGURES

LIST OF ABBREVIATION

BTRS	Bus Ticketing and Reservation System
UML	Unified Modelling Language
CLI	Character Line Interface
GUI	Graphical User Interface
UI	User Interface
GB	Gigabyte

CHAPTER 1 INTRODUCTION

1.1 INTRODUCTION

1.1.1 BACKGROUND

This is a system which is completed in C language. This system aim is to digitalized Nepal's transportation system and make passenger to choose their desire seat. First this system will help every passenger to reserve or buy their seat according to their need and seat number. This system is developing to make easy for ticket counter in-charge to avoid ticket misplace.

Recently I have found the problem on ticket counter. One person has booked the ticket through phone call and when he reached there, he found that ticket have taken by other person, so he discussed with him about his ticket. To stop unnecessary discussion, this system is developed.

First, we lunch this system only on windows platform. If it works properly, we are thinking about to develop web-based system so this system makes every passenger easier as well as they can book their seat through online.

This system holds the all data in a file with different passenger name so that passenger detail can store in a file and is easy to find the details in the future.

1.1.2 PROBLEMS

Due to Nepal is a land locked country there is highly possibility of road way so buses are necessary to go from one place to another so there is a high risk to travel through the buses so there is need of tick counter who provide ticket with passenger insurance if the buses are crashed all the cost of medical will bared by transportation management. So, ticket is very necessary. But there is a problem on this system too which are listed below:

i. Queue for hours.
ii. Miss place of ticket.
iii. Long discussion between passenger and counter man.

1.1.3 OBJECTIVE

The main objective of this system is to solve the problem which mostly occur in Dashain and Tihar which helps the passenger to get the ticket in a time and in a short period of time without wasting a time by seating in a long queue.

1.1.4 SCOPE

This system is developing in C so it is short term used but this system includes file system which is the main advantages for everyone to know their detail in a time so this system will run for long time.

1.1.5 MINIMUM REQUIREMENT

This system is developed in C so this system can run on Windows, Mac or Linux operating system. The minimum system requirements are:

i. Turbo C++.
ii. Windows 7
iii. 512 MB of Ram
iv. 2 GB of hard disk free space
v. Pentium 4 CPU

CHAPTER 2 LITERATURE REVIEW

2.1 LITERATURE REVIEW

This system works on CLI based environment. This system is developing to reduce the misplace of passenger ticket number and help ticket counter to manage the passenger.

Now most of the ticket counter faces many problems related with ticket misplace and also Passengers queue for hours since early morning to return home empty-handed. When we asked 1 passenger he told “Even though it was raining, I got here at 3:00am and at 10:00am when my turn finally came, I was unable to get a single ticket,”. Similarly, again we asked Krishna Chaudhary, 35, who was in queue to get two bus tickets for Dhangadi and he also reported facing the same problem. “Having learnt a bitter lesson last year, I had arrived here at 3:30am. But it was no different this year as well,”.

According to my research I found there was already develop this system but the existing system stores passengers’ details in one file but now this system is developed with dynamic file name that is every passenger’s details are stored in their own file name. Like is the name of passenger is Ram then the file name will be RAM.TXT as well every passenger has different file so there will be easy to find the passenger details quickly. Similarly, this system is built on C-Language so existing system doesn’t have GUI concept but now this system is developed with GUI concept so that every bus counter in charge can use without any command line.

CHAPTER 3 METHODOLOGY

3.1 METHODOLOGY

3.1.1 WATERFALL MODEL

We Know the all requirement of the project, so we are using waterfall model to complete our project in step by step process.

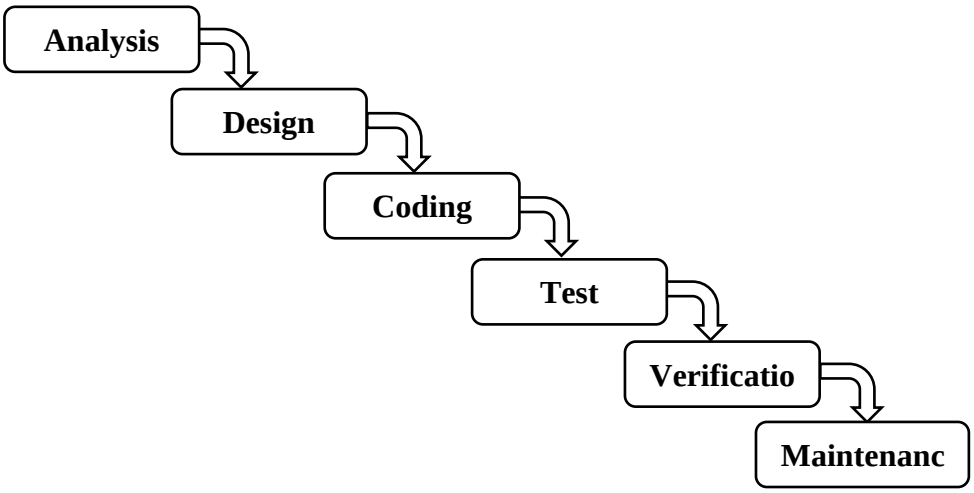

Figure 3. 1: Waterfall Model

3.1.1.1 ANALYSIS

We are discussing about to make a system that makes easy to every people, so we started research about the problem faced by the people. So, we started to research in different ways like field visit or using online. Finally, we got to know the daily problem faced by the people i.e. to buy ticket or to reserve the ticket. Then, we decided to make a **"Bus Ticketing and Reservation System"**.

3.1.1.2 DESIGN

This system is developing in c so it is short term used but this system includes After completing our research we started to make a design and included the flowing features.

i. Buy
ii. Reserve
iii. Cancel

3.1.1.3 CODING

In this phase we started to code and make a fully functional system and user-friendly system with different tools and technique.

3.1.1.4 TEST

we started to test our system with some information choose the best way to store data or passenger information and we File Handling is the best way to store a passenger data. After that we pass all the function to make sure that all function is working properly or not.

3.1.1.5 VERIFICATION

After completing the system this system is verified by passing different passenger and found result without any problem. So, this system is verified.

3.1.1.6 MAINTENANCE

We will make our system up to date to reduce problem or system failure and hope we will implement Database for more secure and reliable in the future.

CHAPTER 4 TECHNOLOGY AND TOOLS

4.1 TECHNOLOGY

4.1.1 C LANGUAGE

Figure 4. 1: C-Language

The C programming language is a computer programming language that was developed to do system programming for the operating system UNIX and is an imperative programming language. C was developed in the early 1970s by Ken Thompson and Dennis Ritchieat Bell Labs. It is a procedural language, which means that people can write their programs as a series of step-by-step instructions. C is a compiled language.

This system is build in C Language. This system use stdio.h, stdlib.h, string.h, graphic.h and many more hader file to make fully functional system and easy to understand by any people or user. This system also build using GUI concept

4.1.2 UML

Figure 4. 2: UML

A UML diagram is a diagram based on the UML (Unified Modelling Language) with the purpose of visually representing a system along with its main actors, roles, actions, artefacts or classes, in order to better understand, alter, maintain, or document information about the system.

UML is used for activity diagram and use-case diagram to know how system works and who can use this system

4.2 TOOLS

4.2.1 TURBO C++

Figure 4. 3: Turbo C++

Turbo C++ is a discontinued C++ compiler and integrated development environment and computer language originally from Borland. Most recently it was distributed by Embarcadero Technologies, which acquired all of Borland's compiler tools with the purchase of its Code Gear division in 2008.

This system is build using Turbo C++ for code editor (IDE). This system is developed with graphic concept so we find this IDE and compiled is the best for whole system.

4.1.3 CREATELY

Figure 4. 4: Creately online Diagramming & Design

Creately is an online diagramming and collaboration tool that will help you to visualize your ideas Draw flowcharts, UML, Mind maps, UI mock-ups, Sitemaps, network diagram and more with amazing ease.

This online tool is used to make or design a use-case diagram, activity diagram and gantt chart. This tool provides many tools which is easy to find the character and diagram

CHAPTER 5 SYSTEM DESIGN

5.1 SYSTEM DESIGN

5.1.1 USE-CASE DIAGRAM

A use case diagram is a graphic depiction of the interactions among the elements of a system. A use case is a methodology used in system analysis to identify, clarify, and organize system requirements.

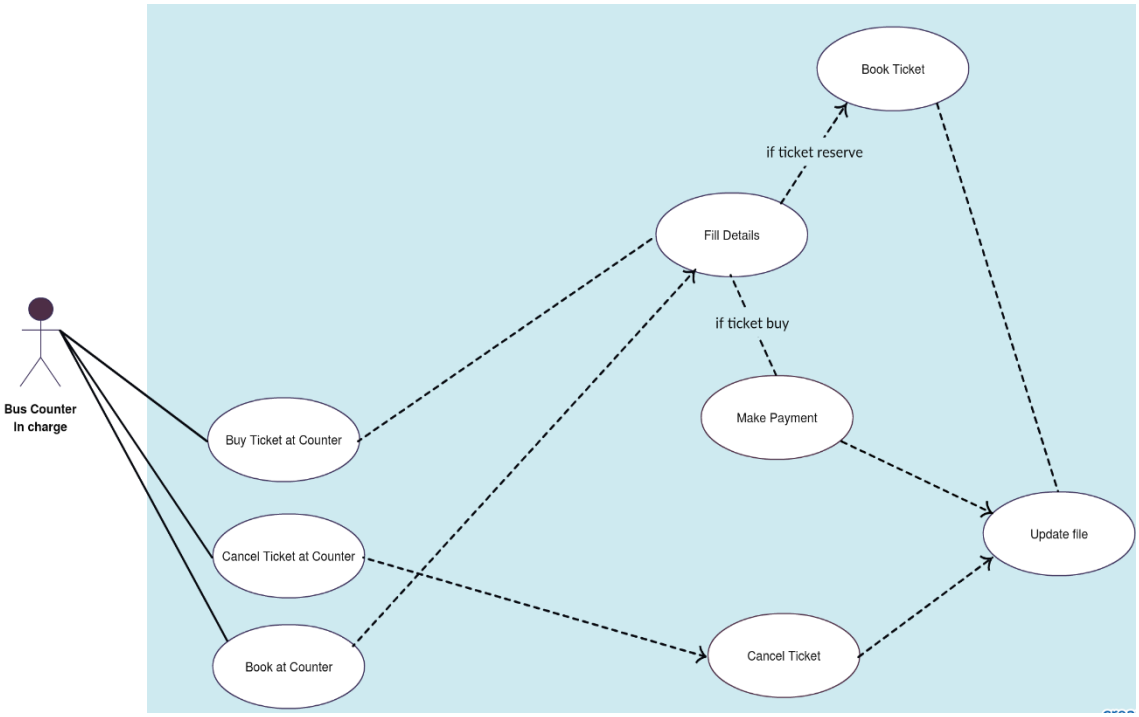

Figure 5. 1: Use-case Diagram of BTRS

This system has only one character that is Bus Counter in charge. Only bus counter in charge will have full control on this system. The can control on buy, cancel or reserve a ticket and update the file.

5.1.2 ACTIVITY DIAGRAM

Activity diagram is another important diagram in UML to describe the dynamic aspects of the system. Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system.

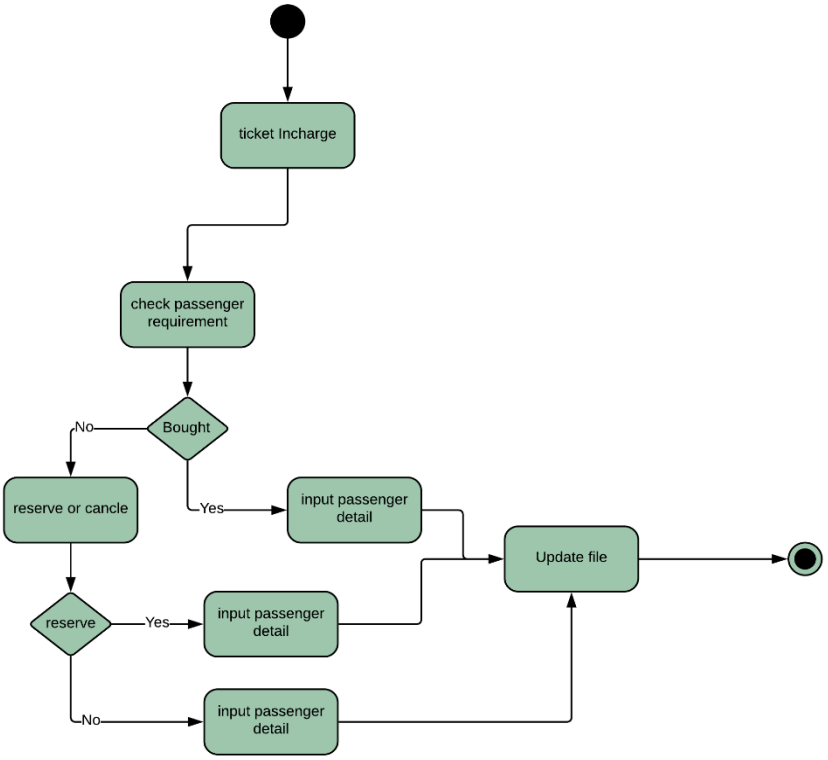

Figure 5. 2: Activity diagram of BTRS

5.1.3 FLOWCHART

A flowchart is a type of diagram that represents an algorithm, workflow or process. The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. This diagrammatic representation illustrates a solution model to a given problem.

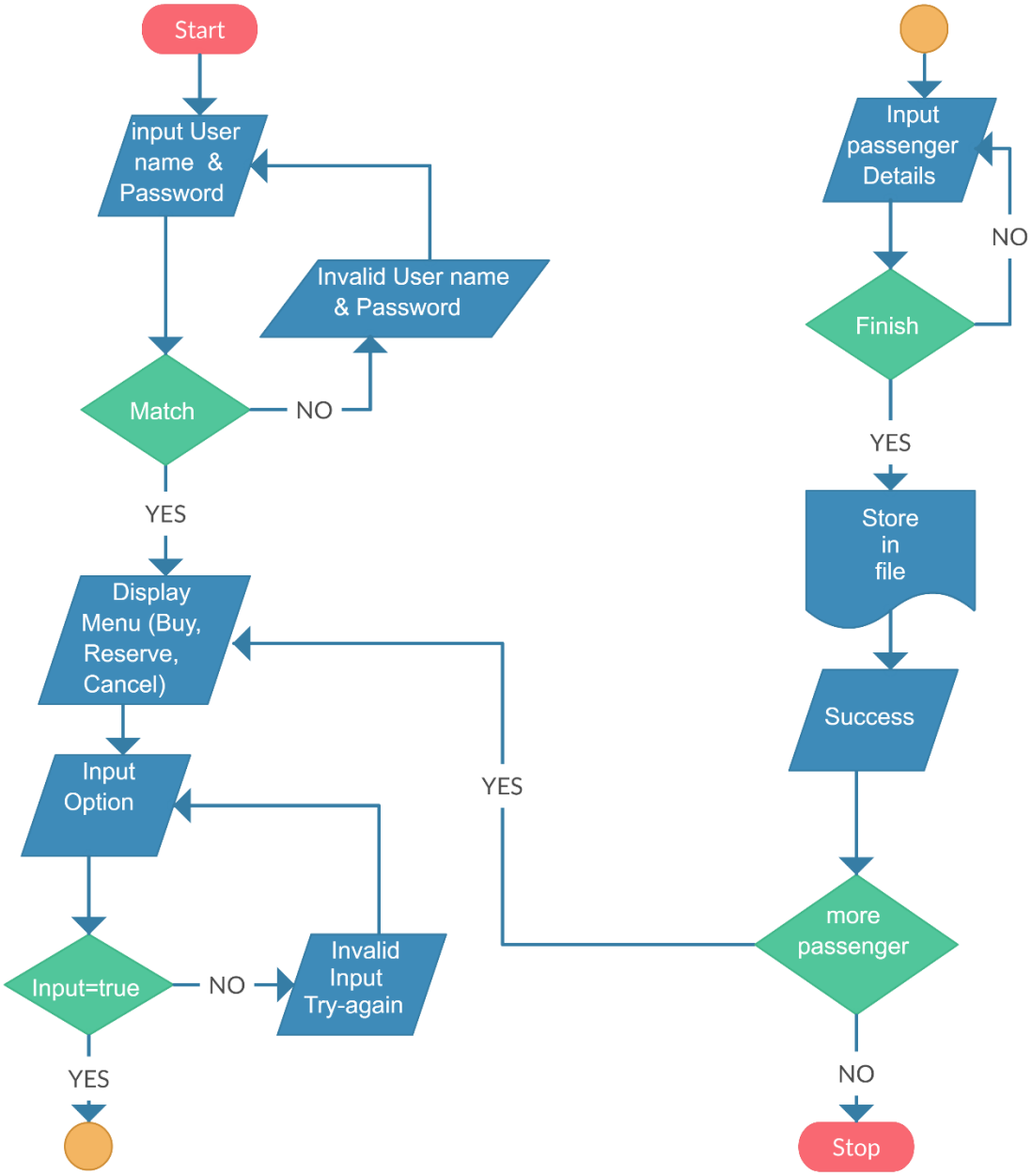

Figure 5. 3: Flow-Chart of BTRS

5.1.4 ALGORITHM

An algorithm (pronounced AL-go-rith-um) is a procedure or formula for solving a problem, based on conducting a sequence of specified actions. A computer program can be viewed as an elaborate algorithm.

i. START

ii. INPUT USER NAME & PASSWORD

iii. IF (USERNAME & PASSWORD == TRUE)

- a. DISPLAY MENU (BUY, RESERVE, CANCEL)
- b. INPUT OPTION
- c. IF (OPTION == TRUE)
  - I. INPUT PASSENGERS DETAILS
  - II. IF (INPUT == COMPLETE)
    - A. STORED IN A FILE
    - B. DISPLAY SUCCESS MESSAGE
    - C. IF (MORE PASSENGER)
      GOTO STEP (a)
    - D. ELSE
      STOP (EXIT)
  - III. ELSE
    STAY ON STEP (I)
- d. ELSE
  GO TO STEP (b)

iv. ELSE
DISPLAY INVALID USER NAME AND PASSWORD
GOTO STEP (ii)

Figure 5. 4: Algorithm of BTRS

CHAPTER 6 DELIVERABLE

6.1 DELIVERABLE

6.1.1 GANTT-CHART

To build this system time has been divided into the flowing order with different stages which in shown below:

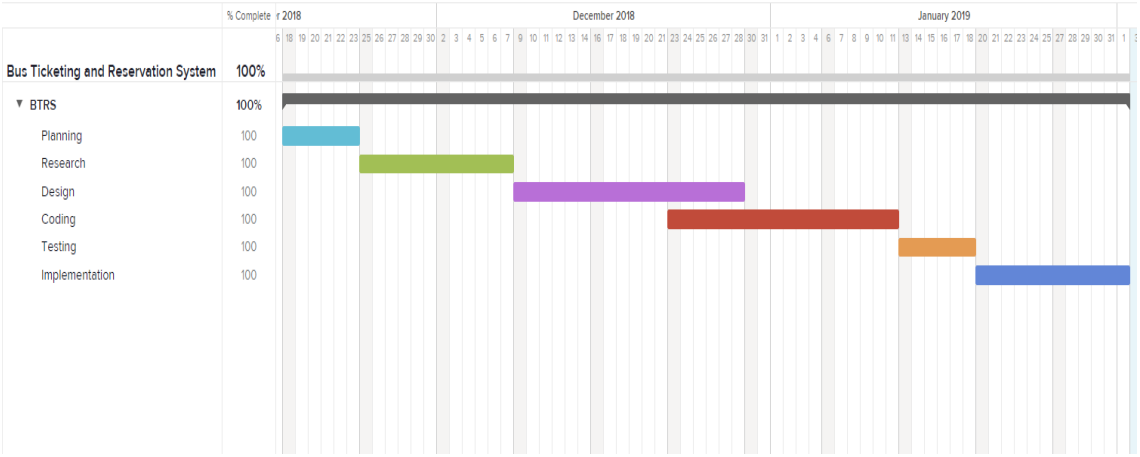

Figure 6. 1: Gantt-Chart

6.1.2 PROJECT CODE

This system contains different function with their own features some demo code are below:

```
//function declaration//
void get_password();
void login();
void allert();
void menu();
void buy();
void res();
void cancel();
void more();

//username and password//
struct account
{
   char *id;
   char *password;
};
static struct account accounts[] =
{
   //defult username and password//
   { "admin" , "admin" },
   { "sunway", "sunway" }
};
```

```
int is_authorized(const char *uid,const char *pwd)
{
   int i;
   for (i=0; i<length(accounts); i++)
   {
            if(stricmp(uid, accounts[i].id)==0 && strcmp(pwd,
accounts[i].password)==0)
            {
                     return 1;
            }
   }
            return 0;
}

//password hide//
void get_password(char *pwd, int size)
{
   int i=0;
   int ch;
   while(i<size-1 && (ch=getch())!='\r')
   {
            if(ch=='\b')
            {
                     if (i!=0)
                     {
                              printf("\b%c\b",' ');  //Don't run off the front end of the
array //
                              --i;
                     }
            }
            else
            {
                     putchar('*');
                     pwd[i++]=(char)ch;
            }
   }
   pwd[i]='\0';
}

//Login Windows//
void login()
{
   int ch;
```

```
int i;
char uid[FIELD_SIZE];
char pwd[FIELD_SIZE];
//for out box//
setfillstyle(1,4);
rectangle(100,100,540,340);
floodfill(101,101,15);
//for inner box//
setfillstyle(1,3);
rectangle(110,110,530,330);
floodfill(111,111,15);
//for username and password input box//
setfillstyle(1,0);
rectangle(270,200,500,225);
rectangle(270,235,500,260);
floodfill(271,201,15);
floodfill(271,241,15);

//for line//
setfillstyle(1,4);
rectangle(110,170,530,175);
rectangle(110,280,530,285);
floodfill(111,171,15);
floodfill(111,281,15);

//text display for  header//
outtextxy(280,120,"WELCOME TO");
outtextxy(190,140,"BUS TICKETING & RESERVATION SYSTEM");

//for text display for username input//
outtextxy(170,210,"Username :::");
outtextxy(170,246,"Password :::");
//text display for  footer//
outtextxy(155,300,"COPYRIGHT @ 2nd SEM STUDENT OF SUNWAY");
gotoxy(36,14);
fflush(stdout);
        if (fgets( uid, sizeof uid, stdin)!=NULL )
        {
                char *newline = strchr(uid,'\n' );
          /* Trim the newline if it's present */
                if(newline!=NULL )
                *newline = '\0';
                gotoxy(36,16);
```

```
                fflush ( stdout );
                get_password ( pwd, sizeof pwd );
      //checking password//
                if ( is_authorized ( uid, pwd ) )
                {
                   menu();
                }
                else
                {
        clrscr();
        setfillstyle(1,0);
        rectangle(0,0,660,660);
        floodfill(1,1,15);
        //clrscr();
        outtextxy(170,265,"Invalid Username or Password");
        allert();
        login();
                }
         }
}


 //warning sound//
void allert()
{
   sound(755);
   delay(1000);
   nosound();
}

//Menu//
void menu()
{
   int ch;
   setfillstyle(1,BLACK);
   floodfill(100,100,14);
   //for out box//
   setfillstyle(1,4);
   rectangle(80,80,560,360);
   floodfill(81,81,15);
   //for inner box//
   setfillstyle(1,3);
   rectangle(90,90,550,350);
```

```
floodfill(91,91,15);

//for line//
setfillstyle(1,4);
rectangle(90,150,550,155);
rectangle(90,310,550,315);
rectangle(90,180,180,183);
floodfill(91,151,15);
floodfill(91,311,15);
floodfill(91,181,15);

//box for options//
setfillstyle(1,4);
rectangle(130,265,530,295);
floodfill(131,266,15);
setfillstyle(1,BLACK);
rectangle(310,270,520,290);
floodfill(311,271,15);

//text display for  header//
outtextxy(280,110,"WELLOME TO");
outtextxy(190,130,"BUS TICKETING & RESERVATION SYSTEM");

//text display for  menu//
outtextxy(115,165,"MENU");
outtextxy(100,200,"1. BUY");
outtextxy(100,215,"2. RESERVE");
outtextxy(100,230,"3. CANCEL");
//choosing option//
outtextxy(140,277,"Enter your option ::: ");

//text display for  footer//
outtextxy(160,325,"COPYRIGHT @ 2nd SEM STUDENT OF SUNWAY");
gotoxy(41,18);
scanf("%d",&ch);
if(ch==1 || ch==2 || ch==3)
{
   switch(ch)
   {
      case 1:
      {  clrscr();
         buy();
         break;
```

```
        }
        case 2:
        {
           clrscr();
           res();
           break;
        }
        case 3:
        {
           clrscr();
           cancel();
           break;
        }
      }
   }
   else
   {
      menu();
   }
}

//ticket buy//
void buy()
{
   // create a FILE typed pointer
   FILE *file_pointer;
   char path[] = "C:/TURBOC3/BIN/PROJECT/Buy/";
   char a[55];
   char b[100];
   char name[100];
   char from[55];
   char to[55];
   char seat[55];
   char date[55];
   char time[55];
   //char rate[55];
   int rate;
   int total;
   int pass;
   char ch;
   // int date, time,rate,pass;
   //inner and outer box//
   setfillstyle(1,0);
```

```
floodfill(0,0,15);
setfillstyle(1,4);
rectangle(80,100,560,380);
floodfill(81,101,15);
setfillstyle(1,3);
rectangle(90,110,550,370);
floodfill(111,111,15);
setfillstyle(1,4);
rectangle(90,150,550,155);
rectangle(90,330,550,335);
floodfill(91,151,15);
floodfill(91,331,15);
//INPUT BOX//
setfillstyle(1,0);
rectangle(230,172,540,193);
rectangle(185,205,310,225);
rectangle(400,205,540,225);
rectangle(185,238,310,257);
rectangle(420,238,540,257);
rectangle(185,268,310,288);
rectangle(500,268,540,288);
rectangle(210,300,310,320);
floodfill(231,176,15);
floodfill(186,206,15);
floodfill(401,206,15);
floodfill(186,239,15);
floodfill(421,239,15);
floodfill(186,269,15);
floodfill(501,269,15);
floodfill(211,301,15);
//Asking Information//
outtextxy(225,130,"ENTER PASSENGERS DETAILS");
outtextxy(175,345,"COPYRIGHT @ 2nd SEM STUDENT OF SUNWAY");
outtextxy(115,180,"Full Name :::");
outtextxy(115,213,"From :::");
outtextxy(350,213,"To :::");
outtextxy(115,245,"Date :::");
outtextxy(350,245,"Time :::");
outtextxy(115,275,"Rate ::");
outtextxy(350,275,"No. of Pasenger :::");
outtextxy(115,307,"Seat no. :::");
//input/
//FILE *file_pointer;
```

```
    gets(a);
    gotoxy(30,12);
    gets(name);
    strcpy(b, name);
    strcat(b,".txt");
    strcat(path,b);
    //open the file "name_of_file.txt" for writing
    file_pointer = fopen(path, "a");
    gotoxy(25,14);
    gets(from);
    gotoxy(52,14);
    gets(to);
    gotoxy(25,16);
    gets(date);
    gotoxy(54,16);
    gets(time);
    gotoxy(25,18);
    printf("Rs. ");
    scanf("%d",&rate);
    gotoxy(64,18);
    scanf("%d",&pass);
    gets(a);
    gotoxy(28,20);
    gets(seat);
    total = rate*pass;
    fprintf(file_pointer,"\t\tWell come to Bus Ticketing & Reservation
System\n\t\t\t\tNarayani Yatayat\n\t\t\t\tKathmandu, Nepal\n\n\n");
    fprintf(file_pointer,"\tBus No. : BA 20 JA 2354\t\t\t\tDate : %s\n\n",date);
    fprintf(file_pointer,"\tFull Name = ");
    fputs(name,file_pointer);
    fprintf(file_pointer,"\n\tFrom : ");
    fputs(from,file_pointer);
    fprintf(file_pointer,"\tTo : ");
    fputs(to,file_pointer);
    fprintf(file_pointer,"Time : ");
    fputs(time,file_pointer);
    fprintf(file_pointer,"\n\tNo of Passenger : %d",pass);
    fprintf(file_pointer,"\tSeat no : ");
    fputs(seat,file_pointer);
    fprintf(file_pointer,"\n\tRate : %d",rate);
    fprintf(file_pointer,"\n\ttotal : %d",total);
    // Close the file)
    fclose(file_pointer);
```

```
   clrscr();
   outtextxy(100,170,"Ticket Bought successfully");
   more();
}
//ticket resrrvation//
void res()
{
   // create a FILE typed pointer
   FILE *file_pointer;
   char path[] = "C:/TURBOC3/BIN/PROJECT/Res/";
   char a[55];
   char b[100];
   char name[100];
   char from[55];
   char to[55];
   char seat[55];
   char date[55];
   char time[55];
   //char rate[55];
   int rate;
   int total;
   int pass;
   char ch;
   // int date, time,rate,pass;
   //inner and outer box//
   setfillstyle(1,0);
   floodfill(0,0,15);
   setfillstyle(1,4);
   rectangle(80,100,560,380);
   floodfill(81,101,15);
   setfillstyle(1,3);
   rectangle(90,110,550,370);
   floodfill(111,111,15);
   setfillstyle(1,4);
   rectangle(90,150,550,155);
   rectangle(90,330,550,335);
   floodfill(91,151,15);
   floodfill(91,331,15);
   //INPUT BOX//
   setfillstyle(1,0);
   rectangle(230,172,540,193);
   rectangle(185,205,310,225);
   rectangle(400,205,540,225);
```

```
rectangle(185,238,310,257);
rectangle(420,238,540,257);
rectangle(185,268,310,288);
rectangle(500,268,540,288);
rectangle(210,300,310,320);
floodfill(231,176,15);
floodfill(186,206,15);
floodfill(401,206,15);
floodfill(186,239,15);
floodfill(421,239,15);
floodfill(186,269,15);
floodfill(501,269,15);
floodfill(211,301,15);
//Asking Information//
outtextxy(225,130,"ENTER PASSENGERS DETAILS");
outtextxy(175,345,"COPYRIGHT @ 2nd SEM STUDENT OF SUNWAY");
outtextxy(115,180,"Full Name :::");
outtextxy(115,213,"From :::");
outtextxy(350,213,"To :::");
outtextxy(115,245,"Date :::");
outtextxy(350,245,"Time :::");
outtextxy(115,275,"Rate ::");
outtextxy(350,275,"No. of Pasenger :::");
outtextxy(115,307,"Seat no. :::");
//input/
//FILE *file_pointer;
gets(a);
gotoxy(30,12);
gets(name);
strcpy(b, name);
strcat(b,".txt");
strcat(path,b);
//open the file "name_of_file.txt" for writing
file_pointer = fopen(path, "a");
gotoxy(25,14);
gets(from);
gotoxy(52,14);
gets(to);
gotoxy(25,16);
gets(date);
gotoxy(54,16);
gets(time);
gotoxy(25,18);
```

```
    printf("Rs. ");
    scanf("%d",&rate);
    gotoxy(64,18);
    scanf("%d",&pass);
    gets(a);
    gotoxy(28,20);
    gets(seat);
    total = rate*pass;
    fprintf(file_pointer,"\t\tWell come to Bus Ticketing & Reservation
System\n\t\t\t\tNarayani Yatayat\n\t\t\t\tKathmandu, Nepal\n\n\n");
    fprintf(file_pointer,"\tBus No. : BA 20 JA 2354\t\t\t\tDate : %s\n\n",date);
    fprintf(file_pointer,"\tFull Name = ");
    fputs(name,file_pointer);
    fprintf(file_pointer,"\n\tFrom : ");
    fputs(from,file_pointer);
    fprintf(file_pointer,"\tTo : ");
    fputs(to,file_pointer);
    fprintf(file_pointer,"\tTime : ");
    fputs(time,file_pointer);
    fprintf(file_pointer,"\n\tNo of Passenger : %d",pass);
    fprintf(file_pointer,"\tSeat no : ");
    fputs(seat,file_pointer);
    fprintf(file_pointer,"\n\tRate : %d",rate);
    fprintf(file_pointer,"\n\ttotal : %d",total);
    // Close the file)
    fclose(file_pointer);
    clrscr();
    outtextxy(100,170,"Ticket Reserve successfully");
    more();
}
//ticket cancel//
void cancel()
{
    FILE *file_pointer;
    char name[50];
    char a[55];
    int status;
    char ch;
    char path[] = "C:/TURBOC3/BIN/PROJECT/Res/";
    setfillstyle(1,0);
    floodfill(0,0,15);
    setfillstyle(1,4);
    rectangle(80,100,560,380);
```

```
   floodfill(81,101,15);
   setfillstyle(1,3);
   rectangle(90,110,550,370);
   floodfill(111,111,15);
   setfillstyle(1,4);
   rectangle(90,150,550,155);
   rectangle(90,330,550,335);
   floodfill(91,151,15);
   floodfill(91,331,15);
   //INPUT BOX//
   setfillstyle(1,0);
   rectangle(230,172,540,193);
   floodfill(231,176,15);
   //Asking Information//
   outtextxy(225,130,"ENTER PASSENGERS DETAILS");
   outtextxy(175,345,"COPYRIGHT @ 2nd SEM STUDENT OF SUNWAY");
   outtextxy(115,180,"Full Name :::");
   gets(a);
   gotoxy(30,12);
   gets(name);
   strcat(name,".txt");
   strcat(path,name);
   status = remove(path);  //removing file function remove()//
   clrscr();
   //fclose(file_pointer);
   if (status == 0)
   {
         outtextxy(100,170,"Ticket Cancel successfully");
         more();
          //outtextxy(100,100",sucees");

   }
   else
   {
     outtextxy(100,170,"Unable to Cancel a Ticket ticket not found!!!");
     more();
   }
   // Close the file
}
//Asking for more passenger//
void more()
{
   char ch;
```

```
    setfillstyle(1,0);
    floodfill(0,0,15);
    setfillstyle(1,4);
    rectangle(80,100,560,380);
    floodfill(81,101,15);
    setfillstyle(1,3);
    rectangle(90,110,550,370);
    floodfill(111,111,15);

    setfillstyle(1,4);
    rectangle(90,150,550,155);
    rectangle(90,330,550,335);
    floodfill(91,151,15);
    floodfill(91,331,15);
    //INPUT BOX//
    setfillstyle(1,0);
    rectangle(100,270,540,290);
    floodfill(101,271,15);
    //Asking Information//
    outtextxy(225,130,"ENTER PASSENGERS DETAILS");
    outtextxy(175,345,"COPYRIGHT @ 2nd SEM STUDENT OF SUNWAY");
    outtextxy(100,250,"More Passenger if yes press Y if not press N ::::::::::");
    gotoxy(15,18);
    scanf("%c",&ch);
    if (ch=='Y' || ch=='y')
    {
            menu();
    }
    else if(ch == 'N' || ch == 'n')
    {
            clrscr();
       setfillstyle(1,0);
       rectangle(0,0,660,660);
       floodfill(1,1,15);
       //clrscr();
       //outtextxy(170,265,"Invalid Username or Password");
       login();
    }
    else
    {
            more();
    }
}
```

```
//password validation//
void validation();

//main function//
int main()
{
   int gd=DETECT,gm,pin;
   initgraph(&gd,&gm,"C:\\TURBOC3\\BGI");
   login();
   //buy();
   //menu();
   //cancel();
   //more();
   getch();
   closegraph();
   return 0;
}
```

6.1.3 SYSTEM SNAPSHOT

After successfully completing the system design and testing the system user friendly Some snapshot are attached below:

Figure 6. 2: Snapshot of Login, Menu, Details input and Return exit option screen

CHAPTER 7 TESTING AND VERIFICATION

7.1 TESTING

After completing the coding part this system is tested by passing different details and passing different function on the main function to make it reliable and can install in any configuration. This system is tested in the given configuration:

i. Pentium Core 2 deo
ii. Windows 10
iii. Turbo C++ 3.2

7.2 VERIFICATION

After completing the system this system is verified by passing different passenger and found result without any problem. So, this system is verified.

CHAPTER 8 CONCLUSION

8.1 CONCLUSION

Overall this system work in windows environment. This system is developed with user friendly. For that this system used graphic.h header file to implement graphic environment in this system. This system is developed in C language and File Handling (.txt) is used to store the data. It is easy to use and implement at any time. Passenger can save their time and found their ticket in a time and can check Cancel Reserve ticket. Passenger can find conformable bus sheet to travel and make their travel fun. This system is completed with C. This system also includes file handling where file handling stores the ticket and passenger detail which is used to take a hard copy of ticket and provided to the passenger.

Bus-Counter in-charge is free of tension due to there is no chance of ticket misplace. Finally, the system is ready to use.

CHAPTER 9 REFERENCES

9.1 REFERENCES

1. E. Balagurusamy (2017) Programming in ANSI C.
2. Sabin Mishra (September 13, 2017) The Himalayan Times Passengers queue for hours since early morning to return home empty-handed from: https://thehimalayantimes.com/nepal/passengers-queue-hours-since-early-morning-return-home-empty-handed/
3. Geeks for geeks Print * in place of characters for reading passwords in C: https://www.geeksforgeeks.org/print-in-place-of-characters-for-reading-passwords-in-c/
4. Subbu on January 9, 2018 Introduction to graphics – Turbo C: https://codingfox.com/13-3-introduction-to-graphics-turbo-c/
5. Tutorials point C – Structures https://www.tutorialspoint.com/cprogramming/c_structures.htm/
6. Teamgantt for Gantt-chart https://app.teamgantt.com/