

NLP BASED QUESTION AND ANSWERING SYSTEM

A PROJECT REPORT

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in partial fulfilment of the requirements for the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE ENGINEERING

with specialization in Cloud Computing



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INTRODUCTION TO PROGRAMMING USING C

Project Report on

“AIRLINES RESERVATION SYSTEM”

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IN

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CLOUD COMPUTING

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ABSTRACT

Airline's reservation system is a project which uses c programming language and it was developed with the aim of creating a platform which will make people to book their tickets easily, holding flight details, passenger reservations and ticket records. This project will maintain booking process, cancellation process, concessions for minors, senior citizens and for the physically handicapped.

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CHAPTER – 1

INTRODUCTION

- Airline's reservation system is simple project holding flight details, passenger reservations and ticket records.
- It saves the time as it allows online procedure as users no longer to wait in a queue to book the flights.
- It maintains flight details, reservations, cancellation process, about needed flight name as well as the details about the seats, concessions for minors, senior citizens and physically handicapped.
- The purpose of this project is to help manage and organize the list of all flights.
- This airline reservation system has been way of minimizing the clerical work, which is almost routine and consumes the precious time.

Chapter –2

PROBLEM STATEMENT

This project is very useful to control and minimize the paper works and saving time. Firstly, Employee can add flights, delete flights and If the user want to book the flights, they will enter the information like name, mobile number, address, destination, health information. and can book their tickets. If user wants to cancel the ticket, then they can cancel the tickets. If passenger is physically handicapped the concessions will up to 20%, if not, no concession. if passenger is below the age of 18 concessions will be 10%. If passenger is above the age of 60 concessions will be 15%. So that user will book their tickets easily.

CHAPTER – 3

OBJECTIVES

- The main objective of this work is to reduce the difficulties that are found in the present system. The present system requires lot of paper works, manual works etc. The accuracy is less in the present system. The details must have to be stored manually in the present system.
- There is always an objective behind every innovation and behind every work.

We have many objectives for our project which is described as follows:

1. Manual work has to be reduced.
2. To manage every detail of passenger.
3. Results to be receive quickly.
4. Customer services can not only be satisfied but also enhanced to the extent that one can obtain or cancel reservation from any branch for any given time.
5. To speed up the operation, increase security, speed, storing and accuracy.
6. To provide convenience to travelers.
7. Managing and maintaining data becomes easier to control or to use it.

CHAPTER –4

TECHNICAL DETAILS

SOFTWARE DETAILS:

LANGUAGE USED: C Language

IDE: Dev C++

HARDWARE DETAILS:

OPERATING SYSTEM: Microsoft Windows

STORAGE REQUIRED: 18 Mb

STORAGE on RAM: 19 Mb

CHAPTER –5

POSSIBLE OUTCOMES

ADD FLIGHT: Employee will add flights to the destination of the passengers and displays the flight details.

DELETE FLIGHT: Employee will delete flight details of that destination and displays the deleted flight details.

BOOKING TICKETS: User will give the information like name, age, mobile number, address and health condition.

CONCESSION: If the age of the passenger is above 60 the concession will be 15% and if age of the passenger is below 18 the concession will be 10%. By considering the health condition of the passenger. if passenger is physically handicapped then concession will be 20%.

CANCELLING: By any chance user wants to cancel their tickets. They enter the information and flight details and cancel their ticket. Displays- “TICKET CANCELLATION SUCCESSFULL”.

CHAPTER –6

ALGORITHM

STEP-1: Start

STEP-2: If you are user go to step 5. Add flight: Enter the details of flight to be added. Display “flight details added successfully”.

STEP-3: Delete flight: Enter the flight details to be deleted. Display “flight deleted successfully”.

STEP-4: Display flight details.

STEP-5: BOOKING: If the seats are available, book your ticket by giving details like name, age, mobile number, email, health information. If you want to cancel, then go to step 9.

STEP-6: CONCESSION: If age<18 concession will be 10%. If age>60 concession will be 5%. If you are physically handicapped concession will be 15%. If you are not eligible for any discount, then go to step 7.

STEP-7: Display the price after calculating the concession.

STEP-8: Display “YOUR TICKET HAS BEEN CONFIRMED”.

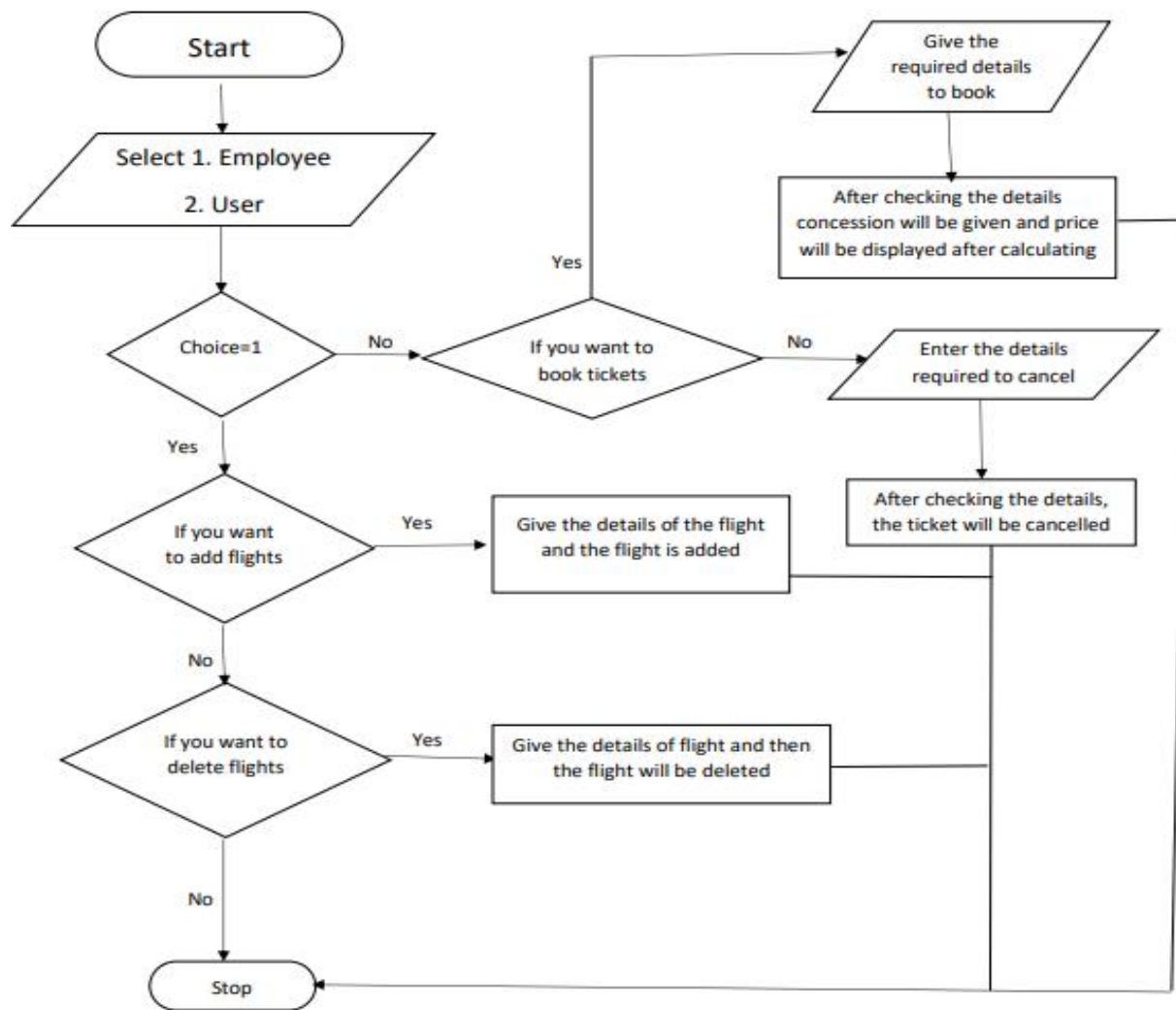
STEP-9: CANCELLATION: Enter the details of user like mobile number.

STEP-10: Display “TICKET HAS BEEN CANCELLED SUCCESSFULLY”.

STEP-11: Stop.

CHAPTER -7

FLOWCHART



CHAPTER - 8

SOURCE CODE

```
#include<stdio.h>
#include<stdlib.h>
typedef struct flight
{
int f_no,price;
char dest[100];
}f;
typedef struct book
{
char name[100],address[1000],ph;
int age,price,mobile_no;
}b;
void add_flight()
{
f *add;
int i,n;
FILE *fp;
fp=fopen("Add.txt","w");
printf("                How many Flights you want to add:");
scanf("%d",&n);
add=(f *)calloc(n,sizeof(f));
for(i=0;i<n;i++)
{
printf("                Enter the details of flight %d\n",i+1);
printf("                Enter the Flight number:");
scanf("%d",&add[i].f_no);
printf("                Enter the Destination of the Flight:");
scanf(" %[^\n]",add[i].dest);
printf("                Enter the Price:");
```

```
scanf("%d",&add[i].price);
fwrite(&add[i],sizeof(f),1,fp);
}
printf("\n");
fclose(fp);
}
void delete_flight()
{
FILE *fp,*fp1;
int f_no,found=1;
f add;
fp=fopen("Add.txt","r");
fp1=fopen("df.txt","w");
printf("          Enter the Flight Number to delete:");
scanf("%d",&f_no);
rewind(fp);
while(fread(&add,sizeof(f),1,fp))
{
if(f_no==add.f_no)
{
found=0;
continue;
}
else
{
//add=(f *)calloc(1,sizeof(f));
fwrite(&add,sizeof(f),1,fp1);
}
}
}
```

```
fclose(fp);
fclose(fp1);
if(found==1)
{
printf("          No flight found with the given flight number.\n");
}
else
{
fp=fopen("df.txt","r");
fp1=fopen("Add.txt","w");
while(fread(&add,sizeof(f),1,fp))
{
fwrite(&add,sizeof(f),1,fp1);
}
printf("          Flight deleted successfully.");
}

printf("\n");
fclose(fp);
fclose(fp1);
}

void book_tickets()
{
f add;
b *book;
int price,f_no,n,i;
FILE *fp1,*fp;
fp =fopen("Add.txt","r");
fp1=fopen("book.txt","a");
```

```

printf("          -----\n");
printf("          F_NO \t DESTINATION \t\t PRICE \n");
printf("          -----\n");
while(fread(&add,sizeof(f),1,fp))
{
printf("          %d \t %s \t\t %d \n",add.f_no,add.dest,add.price);
}
printf("          -----\n ");
printf("          Enter the Flight Number:");
scanf("%d",&f_no);
printf("How many Tickets you want to book:");
scanf("%d",&n);
book=(b *)calloc(n,sizeof(b));
rewind(fp);
while(fread(&add,sizeof(f),1,fp))
{
    if(f_no==add.f_no)
    {
        for(i=0;i<n;i++)
        {
            char name[100],address[1000],ph;
            int age,mobile_no,price;
            printf("          Enter \n          Name:");
            scanf("%[^\\n]",book[i].name);
            printf("          AGE:");
            scanf("%d",&book[i].age);
            printf("          MOBILE NUMBER:");
            scanf("%d",&book[i].mobile_no);
            printf("          ADDRESS:");

```



```

        scanf("%i\n",&book[i].age);
        printf("Are you physically handicapped(y/n):");
        scanf("%c",&book[i].ph);
        printf("\n");
        price=add.price;
        printf("The price for your ticket is: %d\n",price);
        if(book[i].age<=18)
        {
            book[i].price=price-price*0.1;
            printf("You are eligible for a concession of 10 percent of your price.\n");
            printf("The price after the eligible concession is: %d\n",book[i].price);
        }
        else if(book[i].age>60)
        {
            book[i].price=price-price*0.05;
            printf("You are eligible for a concession of 5 percent of your price.\n");
            printf("The price after the eligible concession is: %d\n",book[i].price);
        }
        else if(book[i].ph=='y' || book[i].ph=='Y')
        {
            book[i].price=price-price*0.15;
            printf("You are eligible for a concession of 15 percent of your price.\n");
            printf("The price after the eligible concession is: %d\n",book[i].price);
        }
        printf("\n");
        fwrite(&book[i],sizeof(b),1,fp1);
    }
    break;
}

```

```
}  
printf("\n");  
fclose(fp);  
}  
void cancel_tickets()  
{  
FILE *fp,*fp1;  
b book;  
f add;  
int mobile_no,found=0,i;  
fp=fopen("book.txt","r");  
fp1=fopen("del.txt","w");  
printf("          Enter the mobile number used to book the ticket:");  
scanf("%d",&mobile_no);  
rewind(fp);  
while(fread(&book,sizeof(b),1,fp))  
{  
if(mobile_no==book.mobile_no)  
{  
found=1;  
continue;  
}  
else  
{  
//book=(b *)calloc(1,sizeof(b));  
fwrite(&book,sizeof(b),1,fp1);  
}  
}  
fclose(fp);
```

```

fclose(fp1);
if(found==1)
{
fp=fopen("del.txt","r");
fp1=fopen("book.txt","w");
while(fread(&add,sizeof(f),1,fp))
{
fwrite(&add,sizeof(f),1,fp1);
}
printf("          Ticket cancelled successfully.\n");
}
else
printf("          No ticket found with given mobile number.\n");
printf("\n");
fclose(fp);
fclose(fp1);
}
void main()
{
int n,e,u;
printf("***** AIRLINES RESERVATION *****\n");
while(1)
{
printf("          1.EMPLOYEE\n");
printf("          2.USER\n");
printf("          0.EXIT\n");
printf("          Enter your choice:");
scanf("%d",&n);
printf("\n");

```

```
if(n==1)
{
printf("          1.ADD FLIGHT\n");
printf("          2.DELETE FLIGHT\n");
printf("          Enter your choice:");
scanf("%d",&e);
printf("\n");
switch(e)
{
case 1:
add_flight();
break;
case 2:
delete_flight();
break;
default:
printf("          Enter the correct choice\n");
}
}
else if(n==2)
{
printf("          1.BOOK TICKETS\n");
printf("          2.CANCEL TICKETS\n");
printf("          Enter your coice:");
scanf("%d",&u);
printf("\n");
switch(u)
{
case 1:
```

```
book_tickets();  
break;  
case 2:  
cancel_tickets();  
break;  
default:  
printf("          Enter correct choice\n");  
}  
}  
else if(n==0)  
exit(0);  
else  
printf("          Enter correct choice\n");  
}  
}
```

CHAPTER –9

RESULT:

C:\Users\yashw\Documents\Airlinesreservationsystem.exe

***** AIRLINES RESERVATION *****

- 1.EMPLOYEE
- 2.USER
- 0.EXIT

Enter your choice:1

- 1.ADD FLIGHT
- 2.DELETE FLIGHT

Enter your choice:1

How many Flights you want to add:1

Enter the details of flight 1

Enter the Flight number:7

Enter the Destination of the Flight:Chennai

Enter the Price:2000

- 1.EMPLOYEE
- 2.USER
- 0.EXIT

Enter your choice:2

- 1.BOOK TICKETS
- 2.CANCEL TICKETS

Enter your coice:1

F_NO	DESTINATION	PRICE
7	Chennai	2000

How many Tickets you want to book:1

Enter the Flight Number:7

Enter the details of person 1

Enter

Name:kl rahul

AGE:17

MOBILE NUMBER:9090909090

ADDRESS:xjieohcuegbchfevb eyuvbui e

Are you physically handicapped(y/n):y

The price for your ticket is: 2000

You are eligible for a concessioonn of 10 percent of your price.

The price after the eligible concession is: 1800

```
***** AIRLINES RESERVATION *****
```

```
1.EMPLOYEE
```

```
2.USER
```

```
0.EXIT
```

```
Enter your choice:0
```

```
-----
```

```
Process exited after 6.744 seconds with return value 0
```

```
Press any key to continue . . .
```