



A MINI PROJECT

REPORT

for MINI PROJECT IN C (19CSE39)

LUGGAGE HANDLER

submitted by

S REVANTH KUMAR 1NH19CS149 SEM-III SEC -3C

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING





Certificate

This is to certify that the mini project work titled

LUGGAGE HANDLER

Submitted in partial fulfillment of the degree of Bachelor of Engineering in Computer Science and Engineering

Submitted by

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1NH19CS149

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For

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ABSTRACT

The main purpose of developing the project was to store all the information about the passenger's luggage and help in reaching the luggage to the right passenger. The software is capable of storing the passenger's information while checking in and also delete the passenger's data while checking out. This program displays the passengers in different flights with their respective destinations and bag weights. Myproject is aimed at reducing the instances of lost bags, increasing the ability to track and report on baggageincluding weight changes to prevent theft and loss. Luggage handler can add, delete and feed information like name, age, flight number, destination. We use a data structure for updating luggage one by one. This project can be used in Airports, Railway Station, Ports and even in hotels as it can help the luggage reach the right hands in a much faster way. Using data structures moreover, will help us easily locate luggage as we'll know in which flight the luggage is present.

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LUGGAGE HANDLER

CHAPTER 1

INTRODUCTION

A Luggage Handler is a conveyor system installed in airports/railways/ports that help in transporting luggage from ticket counters to luggage loadout areas.

It delivers checked baggage coming from airplanes to baggage claims. The first automated Luggage Handler was invented by BNP Associates in 1971, and this technology is in use in almost every major airport worldwide today.

Luggage Handler will then scan and sort the bags. It helps people in transporting their luggage without any problem and makes sure that their journey is comfortable and enjoyable.

1.1 PROBLEM STATEMENT

Luggage regulation machine can add, delete and feed information like name, age, flight number, destination. We use a data structure for updating luggage one by one. We can check in or check out using the luggage handler. We can also display all the entries stored in the Luggage Handler and view them to gain information.

1.2 OBJECTIVES

This project can be used in Airports, Railway Station, Ports and even in hotels as it can help the luggage reach the right hands in a much faster way. Using data structures moreover, will help us easily locate luggage as we'll know in which flight the luggage ispresent.

1.3 METHODOLOGY

The main methodology used here are implementation of data structures. The main aim here is to keep the luggage on track with all the necessary information so that it won't be misplaced by any chance.

1.4 EXPECTED OUTCOMES

My project here is based on queues and it's expected outcome is to read the users data and their luggage's data properly and making sure the luggage is safe and easily retrievable. We can check in or check out using the luggage handler. We can also display all the entries stored in the Luggage Handler and view them to gain information.

1.5 HARDWARE AND SOFTWARE REQUIREMENTS

Processor : Intel i3 or above / AMD Ryzen 3 or above

RAM : 4GB

Hard Disk : 10 GB

Input device : Standard Keyboard and Mouse

Output device : 1920x1080 Resolution Monitor

Operating system : Windows XP or higher

C Compiler : CODEBLOCKS or any c compiler

CHAPTER 2

DATA STRUCTURES

Data Structure is a way of collection and organization of data in such a way that we can perform operations on these data and make use of them effectively. The structure should be simple and effective enough so that it can process the data. The main aim of data structures is to reduce the complexity and increases the efficiency.

Space Complexity - It's the amount of space needed for the algorithm during its execution.

Time Complexity – The time required by the program to run till its completion is termed as time complexity.

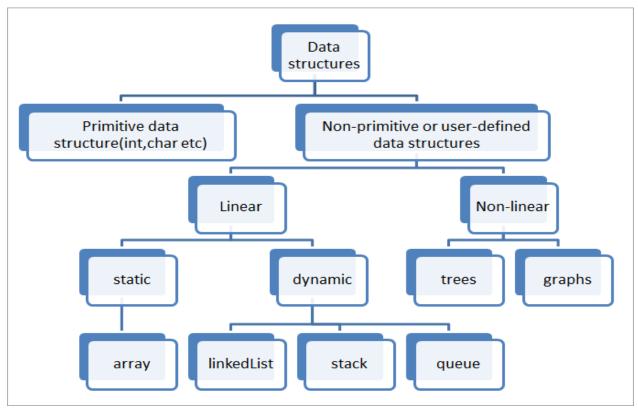
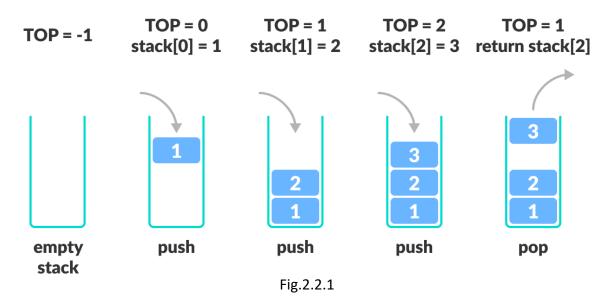


Fig.2.1.1

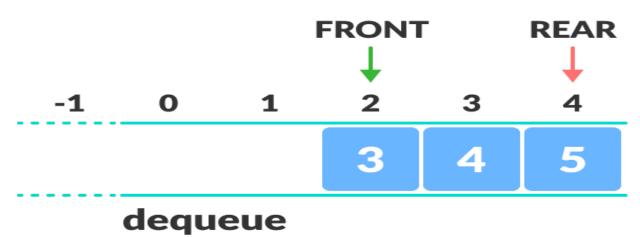
Types of data structures:

Data structure types are determined by the type of operations that are required. These types include:

2.1 Stacks - A stack is an algorithm in which the element can be added or deleted fromone end known as the top of the stack. Push means we are adding a term to the stack and Pop means that we are deleting an element from the stack.



2.2 Queues – A queue is a type of algorithm in which deletions can happen at one place called Front and insertions can take place at the other end called Rear.



2.1.1 Circular queues - Circular Queue is a linear data structure in which the operations are performed based on FIFO (First In First Out) principle and the last position is connected back to the first position to make a circle. It is also called "RingBuffer".

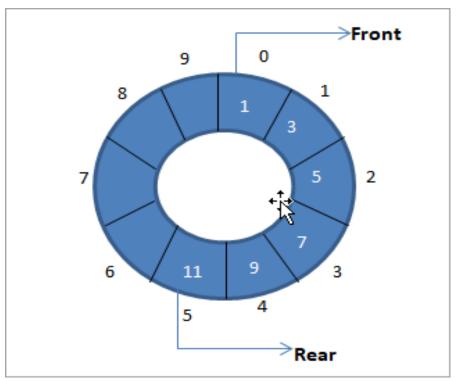


Fig.2.3.1

2.1.2 Double Ended queue - Double ended queue is a more generalized form of queue data structure which allows insertion and removal of elements from both the ends, i.e. front and back.

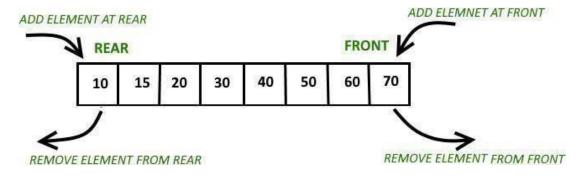
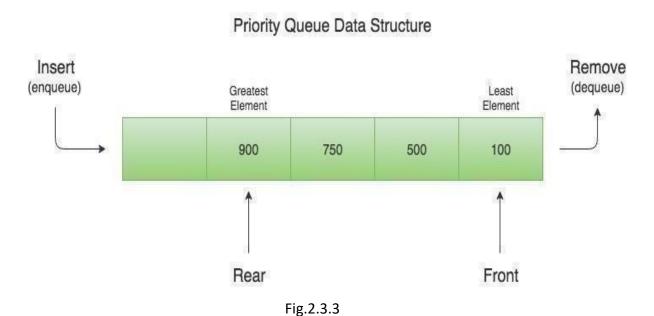


Fig.2.3.2

2.1.3 Priority Queue - A priority queue is a collection in which items can be added at any time, but the only item that can be removed is the one with the highest priority. In Priority queue items are ordered by key value so that item with the lowest value of key is at front and item with the highest value of key is at rear or vice versa. So, we're assigned priority to item based on its key value. Lower the value, higher the priority.



2.2 Linked lists - A linked list is linear collection of data elements known as Nodes. Nodes consists of two parts i.e. Data and Pointer part. The data part holds the data inserted and the pointer part holds the pointer which directs to the nextnode.

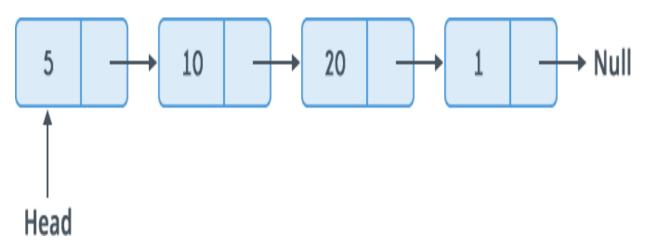


Fig.2.4.1

2.3 Trees - A tree is a nonlinear algorithm in data structure that consists of nodes connected by edges. A node contains a key or value to its child nodes. Root is the topmost or parent node. Trees are definitely useful as linear data structures take a lot of time with the increase in data.

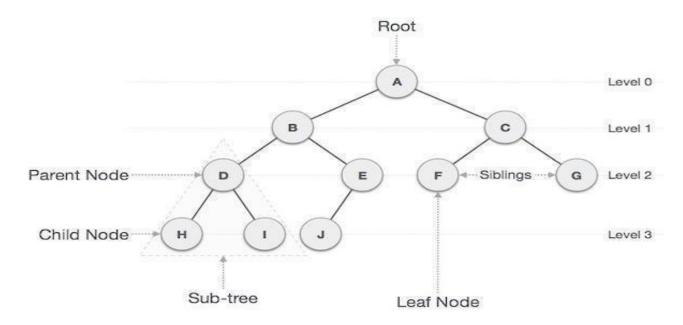
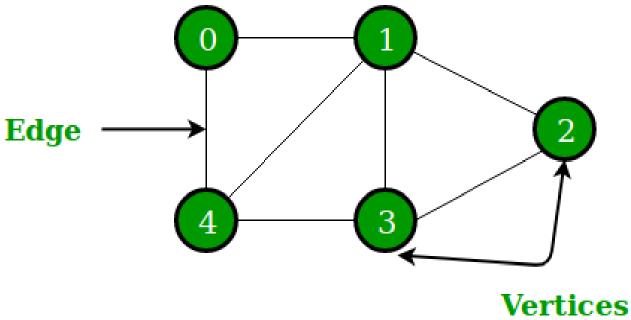


Fig.2.5.1

2.4 Graphs- A graph stores a data in a non-linear fashion. Graphs are made of a finite set of nodes known as vertices and lines that connect them are known asedges.



Why Data Structures are needed?

With increasing complexities in computing, the amount of data usage being used is increasing, this can affect the performance of the application,

Processing speed: To handle large data, high speed data processing is required. Such algorithms in data structures can help us organize data much faster and in an efficient way.

Data Search: Retrieving a particular record from database should be faster and with optimum use of resources.

Multiple requests: To handle multiple requests from multiple users.

Data is organized to form a data structure in such a way that all are not required to be searched and only the required data can be searched.

Data Structure Advantages:

Efficient Memory use: Memory plays a vital part when the data we are handling is huge, so use of data structures can help in optimization of memory by not using excess of it rather only what is required.

Reusability: Data structures can be reused, once we create a data structure, we will have the power to use it at any other place. They can be compiled into libraries so that others can also make use of their true efficiency.

Secure: Data structures hold information securely on a computer system. Most data structures do not take up a lot of our computer's memory rather a small portion of it.

Data stored be accessed at any time. It is also impossible to lose data, hence it provides security for the data.

Software: Data structures gives us the capacity to use and process our data on a software system. We can even log our work hours and produce a report and even make it as an automated process.

Data structures make all processes involving them and effective.

2.8 Operations in queue (General Algorithms)

2.8.1 Insertion

```
void insert ()
{
       if(CAPACITY ==rear)
        {
           printf("Queue is full \n");
         }
        else
{
     int element;
     printf("Enter a number into queue : \n");
     scanf(" %d", &element);
     queue[rear]=element;
     rear++;
 }
}
```

2.8.2 Deletion

```
void delete ()
{
     if (front == rear)
     {
        printf("Queue is empty");
     }
     else
     printf("Deleted element: %d", &queue[front]);
     for (i=0;i<rear-1;i++)
{
                 queue[i] = queue[i+1];
       }
            rear--;
      }
}
```

2.8.3 Display

```
void display ()
{
    if( front == rear)
     {
        printf("Queue is empty"):
     }
     else
     {
          printf("Queue elements:");
          for(i=0; i< rear; i++)
                 {
                       printf("%d\n", queue[i]);
                 }
       }
  }
```

2.9 FLOWCHART FOR ENQUEUE AND DEQUEUE

a. enqueue()

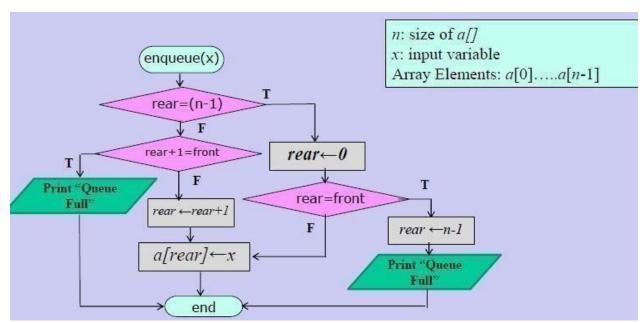


Fig.2.9.1(a)

b. dequeue ()

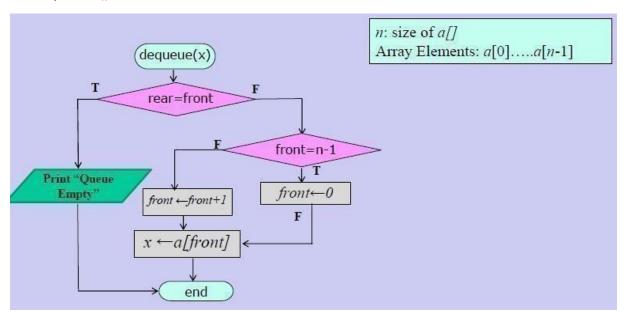


Fig.2.9.1(b)

CHAPTER 3

DESIGN

3.1 DESIGN GOALS

To enable secure outsourcing of file our mechanism design should achieve the following security:

No sensitive information from the customer's private data can be derived by the machine during the process. Store some of the basic information regarding passengers. Store information of passengers like passengers name, age, weight, destination and flight number.

Also adding a checkout option which can be used to delete that passenger's data.

3.2 ALGORITHM / PSEUDOCODE

```
//preprocessor directives (<stdio.h>,<conio.h>,<stdlib.h>,<string.h>)
create structure bag
  initialize age, weight
  initialize name, destination and flight number
};
struct bag queue; //create queue
void checkin()
initialize length to 0
void checkout()
void display()
//void search()
void checkin()
{ initialize length to zero
      if length is equal to 0
        {
           frontq=&queue[0]; rearq=&queue[0];
```

```
LUGGAGE HANDLER
        }
      else
          increment rearq
 print length
 print name of passenger
 print destination
 print flight number
 print age
 print weight of bag
void display()
  if length is equal to 0
     print Queue is empty
  else
  { initialize i;
       print age,name,destination,flight number,bag weight
    read all the values from the structure bag (i.e age,name,destination,flight number,weight of
bag)
  }
}
void checkout(int key)
   if (key is equal to 1 or length is equal to 1)
     { initialize i
      if( length is equal to 1)
        { equate frontq and rearq to NULL
          decrement length
          print Element Deleted
        }
else
      for(i is equal to 1;i less than or equal to length; increment i)
      queue[i-1] is equal to queue[i]
      decrement rearq
       print Element deleted
```

```
decrement length
     }
  else if(( key greater than 1) and (key less than or equal to length))
  {
        if(key less than length)
          for(i equal to key; i less than length; increment i)
           { queue[i-1]=queue[i]; }
        decrement rearq
        print Elementdeleted
  }
  else
  print Invalid Choice
}
int main()
 initialize choice to -1
 //open a do while loop
 do{
 print Number of bags in queue
 print 1. Check in a new bag 2. Check out a bag
 print 3. View all bags 4. Search a bag
 print 5.Exit and clear
 print Enter your choice
 scan into choice
switch(choice)
 case 1://check-in
      checkin();//calling checkin function
      break
 case 2://check-out
         if(length is equal to 0)
      printf Number of bags in queue to checkout
     else if(length is equal to 1)
```

LUGGAGE HANDLER

```
{ checkout(1); }
      else if(length is greater than 1)
      { display(); initialize pos to 0
       print Enter bag number to checkout
       scan pos
       checkout(pos)
      break
 case 3: //View all
         display()
         break
 case 4: //Search
        // search()
        break
 case 5://Exit
        print Thank you for using. Enter any key to exit.
        return 0
 default: print Invalid Choice
        }
       }while(choice greater than or equal to 0)
}
```

CHAPTER 4

IMPLEMENTATION

4.1 MODULE 1 FUNCTIONALITY:

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<string.h>
struct bag
{
       int age, wght;
       char name[30], dest[20], fl no[10];
};
struct bag queue[50];
struct bag *frontq=NULL, *rearq=NULL, *current=NULL;
void checkin();
int length=0;
void checkout(int);
void display();
void search();
void checkin()
{
 if(length==0)
    frontq=&queue[0]; rearq=&queue[0];
  }
 else
       { rearq++;}
 length++;
 printf("\n%d\n",length);
 printf("\nEnter name of passenger: ");
 scanf("%s",queue[length-1].name);
  printf("\nEnter Destination: ");
 scanf("%s",queue[length-1].dest);
 printf("\nEnter flight number: ");
Dept of CSE, NHCE
```

```
scanf("%s",queue[length-1].fl_no);

printf("\nEnter Age: ");
scanf("%d",&queue[length-1].age);
printf("\nEnter the weight of the bag: ");
scanf("%d",&queue[length-1].wght);
}
```

In the above module structure bag queue is created. Next, in the check in function, we retrieve information of the passengers like name, age, weight, destination and flight number.

4.2 MODULE 4 FUNCTIONALITY:

```
int main()
{
       int choice=-1;
       do{
       printf("\nNumber of bags in the queue= %d",length);
       printf("\n1.Check in a new bag.\n2.Checkout a bag.");
       printf("\n3.View all bags.\n4.Search a bag.");
       printf("\n5.Exit and clear.");
       printf("\nEnter your choice: ");
       scanf("%d",&choice);
         switch(choice)
         case 1: //check-in
              checkin();
              break;
         case 2: //check-out
               if(length==0)
       printf("\nNumber of bags in the queue to checkout...");
       else if(length==1)
       {
         checkout(1);
       }
```

```
LUGGAGE HANDLER
```

```
else if(length>1)
{
  display();int pos=0;
  printf("\nEnter bag number to checkout:");
  scanf("%d",&pos);
  checkout(pos);
}
  break;
  case 3: //View all
      display();
       break;
  case 4: //Search
      search();
      break;
  case 5: //Exit
       printf("\nThank you for using.\nEnter any key to exit.");
      getch();
      return 0;
  default: printf("\nInvalid Choice");
}
} while(choice>=0);
```

}

LUGGAGE HANDLER

This is the main () function, here first we create a do-while loop, then print options for storing the passenger's information. Then we use a switch case to store user's choice and create cases for the following: Check in a bag, Check out a bag, View all bags and Exit.

5. RESULTS

5.1.1 Input 1:

```
Number of bags in the queue= 0
1.Check in a new bag.
2.Checkout a bag.
3.View all bags.
4.Search a bag.
5.Exit and clear.
Enter your choice: 1

Enter name of passenger: Rahul
Enter Destination: Paris
Enter flight number: 001
Enter Age: 20
Enter the weight of the bag: 23

Number of bags in the queue= 1
```

Fig.5.1.1

In this input, first we check in a bag of passenger Rahul. His destination being Paris and his flight number 001. He is 20 years old and the weight of his luggage was 23 kgs. Now the number of bags in queue is 1.

5.1.2 Input 2:

```
Enter name of passenger: Tarun

Enter Destination: London

Enter flight number: 202

Enter Age: 24

Enter the weight of the bag: 33

Number of bags in the queue= 2
```

Fig.5.1.2

In this input, we check in a bag of passenger Tarun. His destination being London and his flight number 202. He is 24 years old and the weight of his luggage was 33 kgs. Now the number of bags in queue is 2.

5.1.3 Input 3:

```
Enter name of passenger: Nikhil

Enter Destination: NewYork

Enter flight number: 283

Enter Age: 26

Enter the weight of the bag: 16

Number of bags in the queue= 3
```

Fig.5.1.3

In this input, we check in a bag of passenger Nikhil. His destination being New York and his flight number 283. He is 26 years old and the weight of his luggage was 16 kgs. Now the number of bags in queue is 3.

5.1.4 Input 4:

```
Enter name of passenger: Ram

Enter Destination: Tokyo

Enter flight number: 604

Enter Age: 18

Enter the weight of the bag: 17

Number of bags in the queue= 4
```

Fig.5.1.4

In this input, we check in a bag of passenger Ram. His destination being Tokyo and his flight number 604. He is 18 years old and the weight of his luggage was 17 kgs. Now the number of bags in queue is 4.

5.1.5 Input 5:

```
Enter name of passenger: Bhushan

Enter Destination: Rio

Enter flight number: 905

Enter Age: 21

Enter the weight of the bag: 25

Number of bags in the queue= 5
```

Fig.5.1.5

In this input, we check in a bag of passenger Bhushan. His destination being Rio and his flight number 905. He is 21 years old and the weight of his luggage was 25 kgs. Now the number of bags in queue is 5.

5.2 View (All 5 inputs):

```
.Check in a new bag.
.Checkout a bag.
.View all bags.
.Search a bag.
.Exit and clear.
inter your choice: 3
 Age Name
               Destination
                                Flight No.
                                                Bag Weight
       Rahul
.20
               Paris
                                001
                                                23
                                202
       Tarun
               London
       Nikhil
               NewYork
                                283
                                604
.18
       Ram
               Tokyo
.21
       Bhushan Rio
                                905
umber of bags in the queue= 5
```

Fig.5.2.1

Here we can see all the 5 passenger's information i.e. age, name, destination, flight number and bag weight.

5.3 Delete (Deleting entry number 4 from the list of 5 entries):

```
"D:\REV\CODEBLOCKS\C\MINI PROJECT 8FEB\bin\Debug\MINI PROJECT 8FEB.exe"
                                                                                                                     Number of bags in the queue= 5
1.Check in a new bag.
Checkout a bag.
3.View all bags.
4.Search a bag.
Exit and clear.
Enter your choice: 3
                                 Flight No.
                Destination
                                                 Bag Weight
  Age Name
1.20
       Rahul
                Paris
                                                 23
2.24
       Tarun
                London
                                 202
       Nikhil NewYork
3.26
                                 283
                                                 16
                                                  17
4.18
       Ram
                Tokyo
                                 604
5.21
                                                  25
       Bhushan Rio
                                 905
Number of bags in the queue= 5

    Check in a new bag.

Checkout a bag.
3.View all bags.
4.Search a bag.
Exit and clear.
Enter your choice: 2
  Age Name
                                 Flight No.
                Destination
                                                 Bag Weight
1.20
       Rahul
                Paris
                                 001
                                                  23
                London
                                 202
                                                  33
2.24
       Tarun
       Nikhil NewYork
                                 283
                                                  16
3.26
4.18
        Ram
                Tokyo
                                 604
                                                  17
.21
        Bhushan Rio
                                 905
                                                  25
Enter bag number to checkout:4
Element deleted...
Number of bags in the queue= 4

    Check in a new bag.

Checkout a bag.
3.View all bags.
4.Search a bag.
5.Exit and clear.
Enter your choice: 3
  Age Name
                Destination
                                 Flight No.
                                                 Bag Weight
1.20
       Rahul
                Paris
                                                 23
2.24
        Tarun London
                                 202
       Nikhil NewYork
                                 283
                                                 16
3.26
4.21
       Bhushan Rio
                                                  25
                                 905
Number of bags in the queue= 4
```

Fig.5.3.1

Now we want to delete a passenger's data from the list. Hence, we're deleting number 4's data.

5.4 After deletion:

```
Element deleted...
Number of bags in the queue= 4
1.Check in a new bag.
Checkout a bag.
View all bags.
Search a bag.
Exit and clear.
Enter your choice: 3
  Age Name
               Destination
                               Flight No.
                                              Bag Weight
1.20
       Rahul Paris
                               001
                                              23
2.24
       Tarun London
                               202
       Nikhil NewYork
                               283
                                              16
3.26
4.21
       Bhushan Rio
                               905
                                               25
Number of bags in the queue= 4
```

Fig.5.4.1

This is the final list after checkout of one of the passengers.

5.5.1 Search:

Searching for data, we get the below results.

```
1.Check in a new bag.
2.Checkout a bag.
3.View all bags.
4.Search a bag.
5.Exit and clear.
Enter your choice: 4

Enter name to search:Nikhil

Age:26 Name:Nikhil Destination:NewYork Flight No.:283 Bag Weight:16

Number of bags in the queue= 4
```

```
1.Check in a new bag.

2.Checkout a bag.

3.View all bags.

4.Search a bag.

5.Exit and clear.
Enter your choice: 4

Enter name to search:Tarun

Age:24 Name:Tarun Destination:London Flight No.:202 Bag Weight:33
```

CHAPTER 6

CONCLUSION

This program displays the passengers in different flights with their respective destinations and bag weights. We then provide a number for flight in which the luggage is placed, hence not being misplaced. We can check in or check out using the luggage handler. We can also display all the entries stored in the Luggage Handler and view them to gain information. This project can be used in Airports, Railway Station, Ports and even in hotels as it can help the luggage reach the right hands in a much faster way.

CHAPTER 7

REFERENCES

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