GREEN UNIVERSITY OF BANGLADESH

Department of Computer Science and Engineering

Lab Final Project Report

Course Title:Data Structure Lab

Course Code :CSE 106

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Project Name:

Online Railway Tricket Booking System Using Linked List and Queues.

Introduction:

In this project I have worked with my friend Ratul.He had helped me in many ways.In this project we try to make Railway Tricket Reservation System in c using Linked List and Queues.This is a very simple project.In this project we use the core concept of Data structure for instance Linked List,Queues .

Purpose:

Purpose of Online Railway Tricket Booking System is to replace old practice of manual reservation.New system will let users register themselves and then make reservations online after logging into their accounts.It will make the tricket reservations system easier,more accessible and transparent.

System Will have Following Capabilities:

1.Booking a ticket.

2.Cancel Bookng tricket.

3.Display passenger details.

4.Exit.

Booking a Tricket:

In this section User can be login.Users have to give their name and age for booking a tricket.If a user give his name and age a tricket will be booking for him and he will get a tricket number.

Cancel Booking Tricket:

If a user want to cancel his booking tricket he have to just click the cancel booking section and he also have to giver his tricket number then his Booking tricket will be cancel automatically.
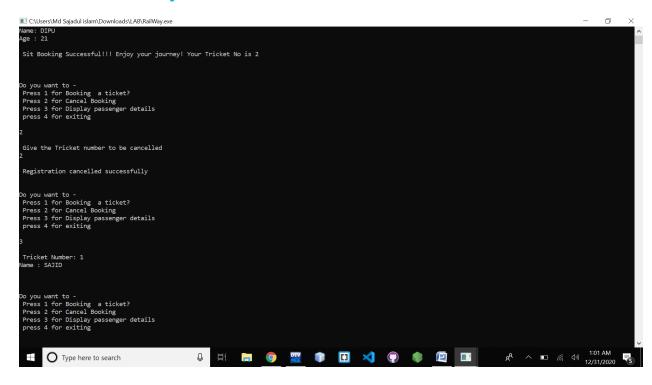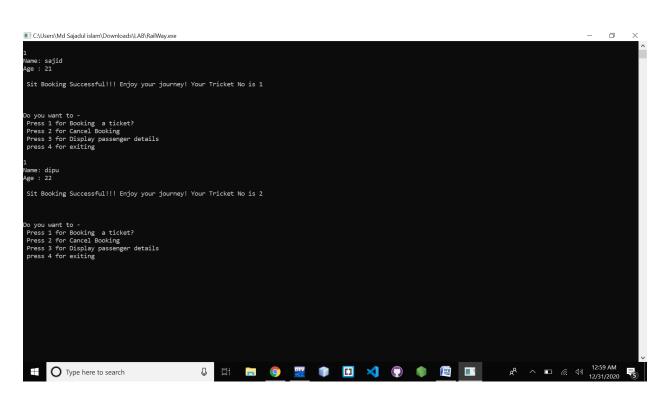
Display passenger details:

In this section user can be click and they will be able to see the passenger details.They have just input their tricket Number

Exit:

Just click this section a user will be able to exit from the program.

Result of Our Project:


```
C:\Users\Md Sajadul islam\Downloads\LAB\RailWay.exe                                    —    □    ×
Name: DIPU
Age : 21

Sit Booking Successful!!! Enjoy your journey! Your Tricket No is 2



Do you want to -
 Press 1 for Booking  a ticket?
 Press 2 for Cancel Booking
 Press 3 for Display passenger details
 press 4 for exiting

2

 Give the Tricket number to be cancelled
2

 Registration cancelled successfully


Do you want to -
 Press 1 for Booking  a ticket?
 Press 2 for Cancel Booking
 Press 3 for Display passenger details
 press 4 for exiting

3

 Tricket Number: 1
Name : SAJID



Do you want to -
 Press 1 for Booking  a ticket?
 Press 2 for Cancel Booking
 Press 3 for Display passenger details
 press 4 for exiting
```



```
C:\Users\Md Sajadul islam\Downloads\LAB\RailWay.exe                                    —    □    ×
1
Name: sajid
Age : 21

Sit Booking Successful!!! Enjoy your journey! Your Tricket No is 1


Do you want to -
 Press 1 for Booking  a ticket?
 Press 2 for Cancel Booking
 Press 3 for Display passenger details
 press 4 for exiting

1
Name: dipu
Age : 22

Sit Booking Successful!!! Enjoy your journey! Your Tricket No is 2


Do you want to -
 Press 1 for Booking  a ticket?
 Press 2 for Cancel Booking
 Press 3 for Display passenger details
 press 4 for exiting
```

Discussion:

1.When we do this project we were very conscious as if we did not make any mistake

2.We try to do our best   as if our project will work correctly.

3.In this project we have used Linked List and queues

4.As we have used Linked List the less memory have been used for this program.For this reasons we instead of array we used Linked list