

Topic : Bus Scheduling & Booking System

Group no : MLB_07.02_11

Campus : Malabe

Submission Date: 20/05/2022

We declare that this is our own work and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

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Assignment II

IT1050 – Object Oriented Concepts

Year 1, Semester II, 2022

Description

"Bloomiz.lk" is an online system for booking bus tickets. This is designed so that you can reserve seats anywhere from the world at any time. As well as drivers are able to contribute their buses to passengers.

Everyone can access our website and study about our system, but membership in our system is a must in order to receive any service from us. And also, if the user wants to book a ticket first, they want to register to the system.

Every registered user has a user account in the system. Once they registered, they get the chance to edit and view their user accounts.

With using this online system users can book bus tickets online at any time and from anywhere without any stress or hassle. You can book your tickets on your own. Users can check the availability of your bus tickets online. In case of emergency traveling, passenger can even book their bus tickets online 2 hours prior also. In case of emergency traveling you, can even book your bus tickets online 1 day prior also. If passenger wants to cancel the online booked ticket, it can be cancelled it any time and also passenger will get his money refunded back in few days. Not only that, but this website will also allow the users to pay using multiple payment options. Such as Credit card, Debit card, online banking, and cash on methods.

Drivers who registered to the system have to opportunity to contribute their buses to passengers. The main purpose of this is to provide more reliable and secure service to the passenger.

If passenger face any difficulties, we provide them with 24 hours help service to overcome any difficulty. And passenger can send and inquiry or send feedback for the service they get.



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Exercise 01:

1) System Requirements

- 1. The System should function 24/7/365.
- There are two types of guest users in this system as registered users and driver users.
 When the users log in to the system they are identified as registered users and driver users.
- 3. Guest users can overview the system, to book tickets using the system, they must register with the system by providing details such as Name, Address, NIC, Email, contact details.
- 4. Registered user can log into the system providing correct username and the password.
- 5. Admin must validate user credentials.
- 6. If the user enters invalid username and the password, system will display an error message and ask user to relog to the system.
- Registered user can view bus schedule, bus root and they can book tickets using the system.
- 8. Register user can update user account details of their accounts.
- 9. Admin can log into the system using his user credentials as a system admin.
- 10. Admin can update the bus schedule, bus root, and also can manage and view user accounts and validates the user account details.
- 11. Admin should validate the user login credentials when they log into the system.
- 12. Register user should be able to select the route of the bus and the schedule in the booking details page.
- 13. After selecting relevant bus schedule register user can book a seat number. After providing booking details user can confirm and book the ticket.
- 14. User needs to make the payment to complete the booking of the ticket.



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- 15. User can select a payment method from the system and need to fill the relevant payment details and request should for OTP.
- 16. After system admin validates the payment, sends the ticket details to the user via email and a message to mobile phone.
- 17. If user had any inquiry when booking the ticket user can send an inquiry to the system.
- 18. Admin will check and respond for the user inquiries.
- 19. If user wants to cancel a reservation of a ticket, user needs to make a cancellation request using the system.
- 20. After admin validates the cancellation request then user will get the refund to user's bank account.
- 21. Register user can send feedback to the system.
- 22. Admin should respond to the user feedbacks.
- 23. Admin must generate system reports and update the database.
- 24. Drivers of the bus log into the system as a driver using credentials.
- 25. Driver checks for the bus schedule and the bus route. And also check the available sets and booked seat numbers of the buses.



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2) Noun -Verb Analysis

(Nouns are in red and Verbs are in blue)

- 1. The System should function 24/7/365.
- There are two types of guest users in this system as registered users and driver users.
 When the users log in to the system they are identified as registered users and driver users.
- 3. Guest users can overview the system, to book tickets using the system, they must register with the system by providing details such as Name, Address, NIC, Email and contact details.
- 4. Registered user can log into the system providing correct username and the password.
- 5. Admin must validate user credentials.
- 6. If the user enters invalid username and the password, system will display an error message and ask user to relog to the system.
- 7. Registered user can view bus schedule, bus root and they can book tickets using the system.
- 8. Register user can update user account details of their accounts.
- 9. Admin can log into the system using his user credentials as a system admin.
- 10. Admin can update the bus schedule, bus root, and also can manage and view user accounts and validates the user account details.
- 11. Admin should validate the user login credentials when they log into the system.
- 12. Register user should be able to select the route of the bus and the schedule in the booking details page.
- 13. After selecting relevant bus schedule register user can book a seat number. After providing booking details user can confirm and book the ticket.
- 14. User needs to make the payment to complete the booking of the ticket.



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- 15. User can select a payment method from the system and need to fill the relevant payment details and request should for OTP.
- 16. After system admin validates the payment, sends the ticket details to the user via email and a message to mobile phone.
- 17. If user had any inquiry when booking the ticket user can send an inquiry to the system.
- 18. Admin will check and respond for the user inquiries.
- 19. If user wants to cancel a reservation of a ticket, user needs to make a cancellation request using the system.
- 20. After admin validates the cancellation request then user will get the refund to user's bank account.
- 21. Register user can send feedback to the system.
- 22. Admin should respond to the user feedbacks.
- 23. Admin must generate system reports and update the database.
- 24. Drivers of the buses log into the system as a driver using credentials.
- 25. Driver checks the bus schedule and the bus route. And also check the available seats and booked seat numbers of the buses.



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3) Identified classes using Noun Analysis

Identified Classes

- 1. Guest User
- 2. Registered User
- 3. Driver
- 4. Bus
- 5. Ticket
- 6. Booking
- 7. Payment
- 8. Report
- 9. Bus Schedule
- 10. Feedback



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Reasons for rejecting other nouns

1. Redundant:

User -> refers to the same person "Registered User", System Admin -> refers to the same person "admin", Reservation -> refers to the same word "Booking"

- 2. An event or an operation:
- 3. Meta language: they, their
- 4. **Outside scope of the system:** System, OTP, message, mobile phone, refund, database, Admin
- 5. Attributes: User account details (Name, Address, NIC, Email and contact details), login credentials/ User credentials (username, password), bus route, accounts, user accounts, route, schedule, booking details page, seat, booking details, payment method, payment details, ticket details, email, inquiry, user inquiries, cancellation request, user's bank account, credentials, booked seat.



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4) CRC Cards for the Bus Scheduling Scheduling and Booking System

Class – Guest User		
Responsibility:	Collaborators:	
Register to the system		
Add and update user account		
details		
Allow to view bus schedule	Bus schedule	

Class – Registered User		
Responsibility:	Collaborators:	
Login to the system		
Book the ticket	Booking, Ticket	
Purchase the payment	Payment	
Send feedbacks	Feedback	



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Class – Driver		
Responsibility:	Collaborators:	
View bus schedule	Bus schedule	
Check the route		

Class – Bus		
Responsibility: Collaborators:		
Store bus details		
Add and update driver details	Driver	

Class - Ticket		
Responsibility: Collaborators:		
Update ticket details		



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Class - Booking		
Responsibility:	Collaborators:	
Check availability of seats.	Bus Schedule	
Select seat number.		
Fill the booking details.		
Confirm the booking.	Registered User	

Class - Payment		
Responsibility:	Collaborators:	
Generate booking ID	Booking	
Select the payment method.		
Fill the payment details.	Registered user	
Confirm payment details.		



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Class - Report		
Responsibility:	Collaborators:	
Generate booking details	Booking	
Generate ticket details	Ticket	
Generate payment details	Payment	

Class - Bus schedule		
Responsibility:	Collaborators:	
Store bus schedule details		
Add and update bus details	Bus	

Class - Feedback		
Responsibility:	Collaborators:	
Store feedback details	Registered user	

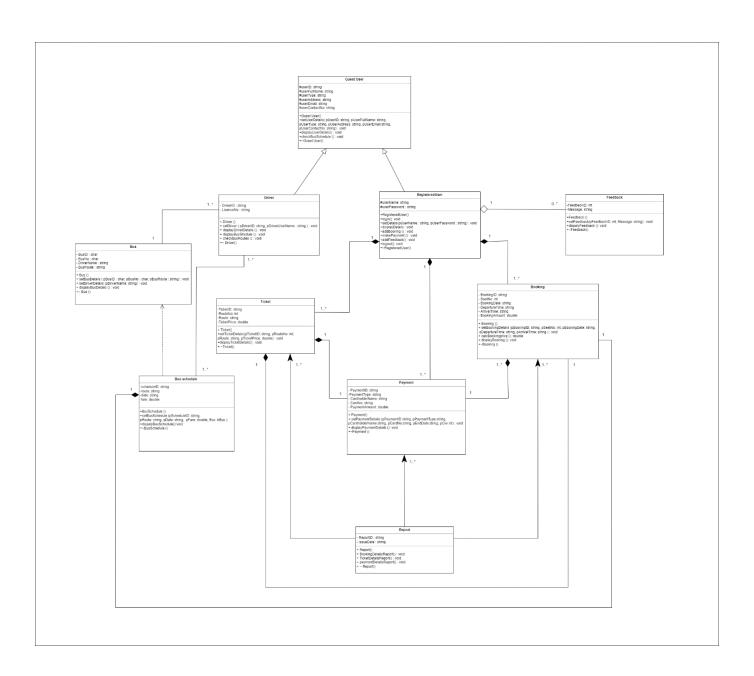


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5) Class Diagram for the Bus Scheduling and Booking System





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Exercise 02:

C++ Coding

Class Header Files

GuestUser.h

```
IT21355196 K.L.Shashin Kalpajith
// MLB_07.02_11
// GuestUser class
#include<iostream>
#include<cstring>
using namespace std;
class GuestUser
 protected:
   string userID;
   string userFullName;
    string userType;
    string userAddress;
    string userEmail;
    string userContactNo;
  public:
    GuestUser();
    void setUserDetails (string pUserID, string pUserFullName, string puserType,
string pUserAddress, string pUserEmail, string pUserContactNo);
    void displayUserDetails();
    void checkBusSchedule();
    ~GuestUser();
```



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RegisteredUser.h

```
IT21355196 K.L.Shashin Kalpajith
 / MLB_07.02_11
#include<iostream>
#include<cstring>
#include"GuestUser.h"
#include"Ticket.h"
#include"Payment.h"
#include"Booking.h"
#include"Feedback.h"
#define SIZE 30
using namespace std;
class RegisteredUser : public GuestUser //Inheritance Relationship
 protected:
    string userName;
    string userPassword;
    Ticket *tickets[SIZE]; //Composition Relationship
    Payment *payments[SIZE]; //Composition Relationship
    Booking *bookings[SIZE]; //Composition Relationship
    Feedback *feedbacks[SIZE]; //Aggregation Relationship
  public:
    RegisteredUser();
    void login();
    void setDetails(string pUserName, string pUserPassword);
    void displayDetails();
    void addBooking();
    void makePayment();
    void addFeedback(Feedback *pFeedback);
    void logout();
    ~RegisteredUser();
```



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Driver.h

```
IT21355646 Bentotage S. N.
// MLB 07.02_11
#include<iostream>
#include<cstring>
#include"Bus.h"
#include"BusSchedule.h"
#define SIZE 100
using namespace std;
class Driver
 private:
   string driverID;
   string driverUserName;
   //Bus *buses[SIZE];
    //BusSchedule *busschedules[SIZE];
 public:
   Driver();
   void setDriver(string pDriver, string pDriverUserName);
   void displayDriverDetails();
   void displayBusScheduling();
    void busCheckBusRoutes();
    ~Driver();
```



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Bus.h

```
IT21355646 - Bentotage S.N.
// class Bus
#include<iostream>
#include<cstring>
using namespace std;
class Bus
   private:
       char busID();
        char busNo();
        string driverName;
        string busRoute;
    public:
        void setBusDetails(char pBusID, char pBusNo, string pBusRoute);
        void setDriverDetails(string pdriverName);
        void displayBusDetails();
        ~Bus();
```

BusSchedule.h

```
//IT21359460 W.A. Ishini Kaweesha Gunarathna
//class BusSchedule
#include<iostream>
#include"Bus.h"
//#include"Booking.h"
#include<cstring>

using namespace std;

class BusSchedule {
   private:
        string scheduleID;
        //string route;
        string date;
        double fare;
```



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```
Bus* bBus;

public:
    BusSchedule();// Default Constructor
    void setBusSchedule ( string pScheduleID, string pRoute, string pDate,

double pFare, Bus* bBus );
    void displayBusSchedule();
    string route;
    ~BusSchedule();
};
```

Booking.h

```
IT21352812 P.M.C. Hiruni Pathiraja
// MLB_07.02_11
// class Booking
#include<iostream>
#include"BusSchedule.h"
using namespace std;
class Booking {
   private:
        string bookingID;
        int seatNo[30];
        string bookingDate;
        string departureTime;
        string arrivalTime;
        double bookingAmount;
    public:
                              // Default Constructor
        Booking () {}
        void getBookingDetails (string pBookingID, int pSeatNo[], string
pBookingDate, string pDepartureTime, string pArrivalTime);
        double calcBookingprice (BusSchedule pRoute);
        void displayBooking ();
        ~Booking () {}
                             // Destructor
```



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Payment.h

```
// IT21352812 P.M.C. Hiruni Pathiraja
 / MLB_07.02_11
// class Payment
#include<iostream>
using namespace std;
class Payment{
   private:
        string paymentID;
        string paymentType;
        string cardholderName;
        string cardNo;
        double paymentAmount;
    public:
        Payment() {}
                        // Default Constructor
        void setPaymentDetails(string pPaymentID, string pPaymentType, string
pCardholderName, string pCardNo, double pPaymentAmount);
        void displayPaymentDetails();
        ~Payment() {} // Destructor
```

Ticket.h

```
// IT21350214 F.A. M. Nuski
// MLB_07.02_11
// Ticket Class
#include<iostream>
#include*Payment.h"
#include"Booking.h"
#define SIZE 20
using namespace std;
class Ticket{
   private:
     string ticketID;
     int routeNo;
     string route;
```



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```
double ticketPrice;
  Payment *payments[SIZE]; // composition relationship
  Booking *bookings[SIZE]; // composition relationship

public:
    Ticket();
    void setTicketDetails(string pTicketID, int pRouteNo, string pRoute, double
pTicketPrice);
    void displayTicketDetails();
    ~Ticket();
};
```

Feedback.h

```
//IT21359460 W.A. Ishini Kaweesha Gunarathna
//class Feedback
#include<iostream>
#include<cstring>

using namespace std;

class Feedback {
    private:
        int feedbackID;
        string message;

    public:
        Feedback();// Default Constructor
        void setFeedback ( int pFeedbackID, string pMessage );
        void displayFeedback();
        ~Feedback();
};
```



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Report.h

```
// IT21350214 F. A. M. Nusik
 / MLB_07.02_11
// class Report
//#define SIZE 20
using namespace std;
class Report
 private:
   string reportID;
    string issueDate;
  // Ticket *ticket[SIZE]; // bi-directional relationship
 public:
   Report() {}
 / Default Constructor
   void bookingDetailsReport();
   void ticketDetailsReport();
   void paymentDetailsReport();
    ~Report() {}
// Destructor
```



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Class cpp Files

GesstUser.cpp

```
// IT21355196 K.L.Shashin Kalpajith
// MLB_07.02_11
#include<iostream>
#include"GuestUser.h"
using namespace std;
GuestUser::GuestUser()//Default Constructor
void GuestUser::setUserDetails(string pUserID, string pUserFullName, string
pUserAddress,string pUserType, string pUserEmail, string pUserContactNo)
    userID = pUserID;
    userFullName = pUserFullName;
    userType = pUserType;
    userAddress = pUserAddress;
    userEmail = pUserEmail;
    userContactNo = pUserContactNo;
void GuestUser::displayUserDetails()
void GuestUser::checkBusSchedule()
GuestUser::~GuestUser()//Destructor
```



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RegisterdUser.cpp

```
IT21355196 K.L.Shashin Kalpajith
//MLB_07.02_11
#include<iostream>
#include"RegisteredUser.h"
RegisteredUser::RegisteredUser() // Default Constructor
void RegisteredUser::login()
void RegisteredUser::setDetails(string pUserName, string pUserPassword)
    userName = pUserName;
    userPassword = pUserPassword;
void RegisteredUser::displayDetails()
void RegisteredUser::addBooking()
void RegisteredUser::addFeedback(Feedback *pFeedback)
void RegisteredUser::logout()
```



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```
RegisteredUser::~RegisteredUser() // Destructor
{
}
```

Driver.cpp

```
// IT21355646 - Bentotage S. N.
// MLB_07.02_11
#include "Driver.h"
#include <iostream>
Driver::Driver() // Default Constructor
void Driver::setDriver(string pDriver, string pDriverUserName) {
 driverID = pDriver;
  driverUserName = pDriverUserName;
void Driver::displayDriverDetails() {
void Driver::displayBusScheduling() {
void Driver::busCheckBusRoutes() {
Driver::~Driver() //Destructor
```



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Bus.cpp

```
// IT21355646 Bentotage S. N
// MLB_07.02_11
#include<iostream>
#include"Bus.h"
using namespace std;
Bus::Bus()// Default Constructor
void Bus::setBusDetails(char pBusID, char pBusNo, string pBusRoute)
    const char busID = pBusID;
    const char busNo = pBusNo;
    busRoute = pBusRoute;
void Bus::setDriverDetails(string pdriverName)
    driverName = pdriverName;
void Bus::displayBusDetails()
Bus::~Bus()//Destructor
```



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BusSchedule.cpp

```
#include<iostream>
#include<cstring>
#include"BusSchedule.h"
using namespace std;
BusSchedule::BusSchedule()//Default Constructor
    strcpy( scheduleID, "" );
  strcpy( date, "" );
  fare = 0.0;
void BusSchedule::setBusSchedule (string pScheduleID, string pRoute, string
pDate, double pFare, Bus bBus)
    scheduleID = pScheduleID;
    pRoute = pRoute;
   date = pDate;
    fare = pFare;
void BusSchedule::displayBusSchedule()
BusSchedule::~BusSchedule()//Destructor
```



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Booking.cpp

```
// IT21352812 P.M.C. Hiruni Pathiraja
// MLB_07.02_11
#include<iostream>
#include"Booking.h"
//#include"BusSchedule.h"
using namespace std;
Booking::Booking()
void Booking::getBookingDetails(string pBookingID, int pSeatNo[], string
pBookingDate, string pDepartureTime, string pArrivalTime)
  int i;
    bookingID = pBookingID;
    seatNo[30] = pSeatNo[i];
    bookingDate = pBookingDate;
    arrivalTime = pArrivalTime;
    departureTime = pDepartureTime;
double Booking::calcBookingprice (BusSchedule pRoute)
    double price = 0;
    int size = *(&seatNo + 1) - seatNo;//calculating number of seats
    //price of one seat in relevent route
    if (pRoute.route == "Matara-Kaduwela"){
        price = 990.0;
    else if (pRoute.route == "Colombo-Matara"){
        price = 1020.0;
    else if (pRoute.route == "Kadawatha-Galle"){
        price = 840.0;
    else if (pRoute.route == "Colombo-Deniyaya"){
        price = 1290.0;
    else if (pRoute.route == "Panadura-Matara"){
```



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```
price = 890.0;
}
else {
    return 0.0;
}
bookingAmount = price*size;
    return bookingAmount;
}
void Booking::displayBooking ()
{
}
Booking::~Booking()//Destructor
{
}
```

Payment.cpp



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```
Payment::~Payment()//Destructor
{
}
```

Ticket.cpp

```
IT21350214 F.A. M. Nuski
// MLB_07.02_11
#include<iostream>
#include<cstring>
#include"Ticket.h"
using namespace std;
 Ticket::Ticket() //Default Constructor
 void Ticket::setTicketDetails(string pTicketID, int pRouteNo, string pRoute,
double pTicketPrice)
     ticketID = pTicketID;
     routeNo = pRouteNo;
     route = pRoute;
     ticketPrice = pTicketPrice;
 void Ticket::displayTicketDetails()
 Ticket::~Ticket() //Destructor
```



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Feedback.cpp

```
//IT21359460 W.A. Ishini Kaweesha Gunarathna
#include<iostream>
#include<cstring>
#include"Feedback.h"
using namespace std;
Feedback::Feedback()//Default Constructor
  feedbackID = 0;
 strcpy( message, "" );
void Feedback::setFeedback (int pFeedbackID, string pMessage)
      feedbackID = pFeedbackID;
      message = pMessage;
void displayFeedback()
Feedback::~Feedback()//Destructor
```



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Report.cpp

```
// IT21350214 F. A. M. Nuski
// MLB_07.02_11
#include<iostream>
#include"Report.h"
using namespace std;
Report::Report() //Default Constructor
void Report::bookingDetailsReport()
void Report::ticketDetailsReport()
void Report::ticketDetailsReport()
void Repot::paymentDetailsReport()
Report::~Report() //Destructor
```



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Main Program

Main.cpp

```
#include <iostream>
#include "Report.h"
#include "GuestUser.h"
#include "RegisteredUser.h"
#include "Payment.h"
#include "Booking.h"
#include "Ticket.h"
#include "Bus.h"
#include "Driver.h"
#include "BusSchedule.h"
#include "Feedback.h"
using namespace std;
int main()
  // Creating Dynamic Objects
  GuestUser *gu1;
  gu1 = new GuestUser(); // Dynamic Object for GuestUser
  RegisteredUser *ru1;
  ru1 = new RegisteredUser(); // Dynamic Object for RegisteredUser
  Booking * b1;
  b1 = new Booking(); // Dynamic Object for Booking
  Payment = p1;
  p1 = new Payment(); // Dynamic Object for Payment
  BusSchedule = bs1;
  bs1 = new BusSchedule(); // Dynamic Object for BusSchedule
  Bus = bus1;
  bus1 = new Bus(); // Dynamic Object for Bus
 Driver = d1;
```



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```
d1 = new Driver(); // Dynamic Object for Driver
Ticket = t1;
t1 = new Ticket(); // Dynamic Object for Ticket
Feedback = f1;
f1 = new Feedback(); // Dynamic Object for Feedback
Report = r1;
r1 = new Report(); // Dynamic Object for Report
//Method Calling
gu1-> displayUserDetails();
gu1-> checkBusSchedule();
ru1-> login();
ru1-> displayDetails();
ru1-> logout();
d1-> displayDriverDetails();
d1-> displayBusSchedule();
d1-> checkBusRoutes();
bus1-> displayBusDetails();
b1-> displayBooking();
p1-> displayPaymentDetails();
t1-> displayTicketDetails();
bs1-> displayBusSchedule();
f1-> displayFeedback();
r1-> bookingDetailsReport();
r1-> ticketDetailsReport();
r1-> paymentDetails();
//deallocate Memory (Release Memory)
```



Assignment II

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```
delete gu1;
delete ru1;
delete b1;
delete p1;
delete bs1;
delete bus1;
delete d1;
delete d1;
delete f1;
delete f1;
```



Assignment II

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Individual Contribution

	Student ID	Student Name	Individual Contribution
1	IT21350214	F. A. M. Nuski	Header Files : Report , Ticket
			Cpp Files : Report , Ticket
			 Create and update main cpp
2	IT21352812	P.M.C. Hiruni Pathiraja	 Header Files: Booking, Payment
			 Cpp Files: Booking, Payment
			 Update main cpp
3	IT21355646	S.N. Bentotage	 Header Files: Bus, Driver
			Cpp Files : Bus, Driver
4	IT21359460	W.A. Ishini Kaweesha	 Header Files: Bus Schedule, Feedback
		Gunarathna	 Cpp Files: Bus Schedule, Feedback
5	IT21355196	K.L.S.Kalpajith	 Header Files: GuestUser,
			RegisteredUser
			 Cpp Files: GuestUser, RegisteredUser
			 Update main cpp