

DEVELOPMENT OF SOFTWARE APPLICATIONS- FALL 2020HOMEWORK SUBMISSION REPORT

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<u>TASK</u>

FLIGHT BOOKING MANAGER

We used 4 scripts:

{

The code of Booking script:

```
This is the main part where we call the functions in the other scripts.

using System;

using System.Collections.Generic;

public class Booking

{
```

public static void Main(string[] args)

```
IList<Flights> flights = new List<Flights>();
```

do {

The menu that will be shown to the operator in order to choose from it the action that he will do to serve the

client:

Console.WriteLine("Please type '6' to check the services available for the VIP passengers");

```
int choix = Convert.ToInt32(Console.ReadLine());
when choosing the number the switch will allow us in the program to execute the instruction wanted.
       switch (choix)
                 {
                  case 1:
                          addFlight((List<Flights>)flights);
                         break;
Case one adds flights to the system.
                  case 2:
                          Console.WriteLine("To print all the available flights type: 1");
                          Console.WriteLine("To print all the available flights for a specific destination type: 2");
                          Console.WriteLine("To print all the available flights for a specific destination from a specific
point of depart type: 3");
                          Console.WriteLine("To print all the available flights for a specific date: 4");
                          Console.WriteLine("To print all the available flights for a specific destination from a specific
point of depart type for a specific date: 5");
                          Console.WriteLine("To print all the available flights for a specific destination from a specific
point of depart type for a specific date: 6");
                          int c = Convert.ToInt32(Console.ReadLine());
             switch (c)
                          {
                                   case 1:
                                   availableFlights((List<Flights>)flights);
                                   break;
                                   case 2:
                                            Console.WriteLine("enter the destination: ");
                                            string des = Convert.ToString(Console.ReadLine());
```

```
availableFlights((List<Flights>)flights, des);
        break;
               case 3:
                        Console.WriteLine("enter the destination: ");
                         string des1 = Convert.ToString(Console.ReadLine());
Console.WriteLine("enter the point of the depart: ");
                         string dep = Convert.ToString(Console.ReadLine());
availableFlights((List<Flights>)flights, dep, des1);
        break;
               case 4:
                       Console.WriteLine("enter the year of the flight: ");
                       int year = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the month of the flight: ");
                       int month = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the day of the flight: ");
                       int day = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the hour of the flight: ");
                       int hour = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the minutes of the flight: ");
                       int minutes = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the senconds of the flight: ");
int seconds = Convert.ToInt32(Console.ReadLine());
DateTime calendar = new DateTime(year, month, day, hour, minutes, seconds);
                        availableFlights((List<Flights>)flights, calendar);
                        break;
```

```
Console.WriteLine("enter the year of the flight: ");
int yeari = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the month of the flight: ");
int monthi = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the day of the flight: ");
int dayi = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the hour of the flight: ");
int houri = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the minutes of the flight: ");
int minutesi = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the senconds of the flight: ");
int secondsi = Convert.ToInt32(Console.ReadLine());
DateTime calendarr = new DateTime(yeari, monthi, dayi, houri, minutesi, secondsi);
Console.WriteLine("enter the destination: ");
                         string dest = Convert.ToString(Console.ReadLine());
availableFlights((List<Flights>)flights, dest, calendarr);
        break;
               case 6:
Console.WriteLine("enter the year of the flight: ");
int yearia = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the month of the flight: ");
int monthia = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the day of the flight: ");
int dayia = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the hour of the flight: ");
int houria = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the minutes of the flight: ");
```

```
int minutesia = Convert.ToInt32(Console.ReadLine());
                 Console.WriteLine("enter the senconds of the flight: ");
                 int secondsia = Convert.ToInt32(Console.ReadLine());
                 DateTime calendarra = new DateTime(yearia, monthia, dayia, houria, minutesia, secondsia);
                 Console.WriteLine("enter the destination: ");
                 String desti = Convert.ToString(Console.ReadLine());
                 Console.WriteLine("enter the depart: ");
                 String depart = Convert.ToString(Console.ReadLine());
                 Booking.availableFlights((List<Flights>)flights, desti, depart, calendarra);
                 break;
            }
            break;
Case two prints the available flights according to the information wanted by the client.
          case 3:
            Booking.checkForFreePlaces((List<Flights>)flights);
            break;
Case three for checking the available places in a specific available flight in the program.
          case 4:
            Booking.bookFlight((List<Flights>)flights);
            break;
Case four to book flight.
          case 5:
            Booking.calculatePrice((List<Flights>)flights);
            break;
Case five to calculate the price of a flight.
          case 6:
            Console.WriteLine("enter the flight number: ");
```

```
int fn = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the passenger id: ");
int id = Convert.ToInt32(Console.ReadLine());
int ff = 0;
int pp = 0;
foreach (Flights f in flights) {
  if ((f.FlightNumber == fn)) {
     foreach (Passengers p in f.Passengers) {
        if ((p.PassengerId == id)) {
          if ((p.VIP == true)) {
             Console.WriteLine("Premium Services");
             Console.WriteLine("Food");
             Console.WriteLine("....");
          }
          else {
             Console.WriteLine("Sorry, these services are available only for VIP passengers");
          }
          pp = 1;
          break;
        }
     }
     ff = 1;
     break;
  }
}
if (ff == 0)
{
```

```
Console.WriteLine("wrong flight number");
            }
            if (pp == 0)
            {
               Console.WriteLine("wrong passengerId");
            }
This is used for managing VIP passengers.
       }
     } while (true);
  }
  The following function prints all the available flights in the system.
  public static void availableFlights(List<Flights> flights) {
     if (string.ReferenceEquals(flights, null))
     {
       Console.WriteLine("no flight is available");
     }
     foreach (Flights flight in flights) {
       Console.WriteLine(flight.ToString());
     }
  }
  The following function shows all the available flights in the date: ( DateTime c) entered .
  public static void availableFlights(List<Flights> flights, DateTime c) {
     if (string.ReferenceEquals(flights, null)) {
       Console.WriteLine("no flight is available");
       return;
```

```
}
    foreach (Flights flight in flights) {
       if ((flight.DepartDate == c)) {
         Console.WriteLine(flight.ToString());
      }
    }
 }
    The following function shows all the available flights from depart place to destination place entered.
 public static void availableFlights(List<Flights> flights, String depart, String destination) {
    if (!string.ReferenceEquals(flights, null)) {
       foreach (Flights flight in flights)
       {
         if ((flight.Depart.Equals(depart)) && flight.Destionation.Equals(destination))
         {
            Console.WriteLine(flight.ToString());
         }
      }
    }
 }
 The following function shows all the available flights from depart place to destination place entered in specific date.
public static void availableFlights(List<Flights> flights, String depart, String destination, DateTime c) {
    if (!string.ReferenceEquals(flights, null)) {
```

```
foreach (Flights flight in flights)
     {
        if ((flight.Depart.Equals(depart)) && flight.Destionation.Equals(destination) && (flight.DepartDate == (c)))
        {
          Console.WriteLine(flight.ToString());
        }
     }
  }
}
The following function shows all the available flights to destination place entered.
public static void availableFlights(List<Flights> flights, String Destination) {
  if (!string.ReferenceEquals(flights, null)) {
     foreach (Flights flight in flights)
     {
        if (flight.Destionation.Equals(Destination))
        {
          Console.WriteLine(flight.ToString());
        }
     }
  }
}
```

Booking.availableFlights(flights);

```
The following function shows all the available flights to destination place entered in specific date.
public static void availableFlights(List<Flights> flights, String Destination, DateTime cal) {
  if (!string.ReferenceEquals(flights, null)) {
     foreach (Flights flight in flights)
        if ((flight.DepartDate== cal) && flight.Destionation.Equals(Destination))
        {
          Console.WriteLine(flight.ToString());
        }
     }
  }
}
This function checks the free places in specific flight and returns Boolean value.
public static bool freePlace(Flights flight) {
  if ((flight.TotalNumberOfPassengers == flight.OccupiedPlaces)) {
     return false;
  }
  else {
     return true;
  }
}
This function books flight for passenger in a specific flight if there is still available places in this flight.
public static void bookFlight(List<Flights> flights) {
```

```
int flightNumber = Convert.ToInt32(Console.ReadLine());
  Passengers passenger = Booking.addPassenger();
  Console.WriteLine(("Passenger id = "
            + (passenger.PassengerId + " added successfully")));
  if (!string.ReferenceEquals(flights, null)) {
     foreach (Flights flight in flights) {
       if ((flight.FlightNumber == flightNumber)) {
          flightNumber = flight.FlightNumber;
          if ((Booking.freePlace(flight) == true)) {
            flight.addPassengers(flight.Passengers, passenger);
            Console.WriteLine("flight booked successfully:)");
            int places = flight.Passengers.Count;
            flight.OccupiedPlaces =places;
            passenger.FlightNum = flight.FlightNumber;
         }
          else {
            Console.WriteLine("flight book failed, there is no available place :( ");
            passenger = null;
         }
          break;
       }
    }
  }
static int i = 0;
```

This function allows us to add new available flight to the system.

```
public static void addFlight(List<Flights> flights) {
  Console.WriteLine("enter the destination of the flight: ");
  String destination = Convert.ToString(Console.ReadLine());
  Console.WriteLine("enter the point depart of the flight: ");
  String depart = Convert.ToString(Console.ReadLine());
  Console.WriteLine("enter the year of the flight: ");
  int year = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("enter the month of the flight: ");
  int month = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("enter the day of the flight: ");
  int day = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("enter the hour of the flight: ");
  int hour = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("enter the minutes of the flight: ");
  int minutes = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("enter the seconds of the flight: ");
  int seconds = Convert.ToInt32(Console.ReadLine());
  DateTime calendar = new DateTime(year, month, day, hour, minutes, seconds);
  Console.WriteLine("enter the price of the flight: ");
  int prix = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("enter the total number of the passengers: ");
  int totalNumberOfPassengers = Convert.ToInt32(Console.ReadLine());
  Flights flight = new Flights(destination, depart, calendar, prix, totalNumberOfPassengers);
  flights.Add(flight);
  Console.WriteLine("Flight added successfully");
```

This function allow us to register new passenger and it will be called by the function booking.

```
public static Passengers addPassenger() {
```

```
Console.WriteLine("enter the lastName of the passenger: ");
String lastName = Convert.ToString(Console.ReadLine());
Console.WriteLine("enter the firstName of the passenger: ");
String fristName = Convert.ToString(Console.ReadLine());
Console.WriteLine("enter the age of the passenger: ");
int age = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("enter the weight of passenger\'s handbag in KG");
double kiloOfHandBag = Convert.ToDouble(Console.ReadLine());
Console.WriteLine("enter the weight of passenger\'s checked baggages");
double kiloOfcheckedBaggage = Convert.ToDouble(Console.ReadLine());
Packages lug = new Packages(kiloOfHandBag, kiloOfcheckedBaggage);
Console.WriteLine("Is the passenger a VIP?\n 1: yes\n 2: no");
int vip = Convert.ToInt32(Console.ReadLine());
Boolean VIP = false;
if (((vip!= 1) && (vip!= 2))) {
  Console.WriteLine("Is the passenger a VIP?\n 1: yes\n 2: no");
  vip = Convert.ToInt32(Console.ReadLine());
}
else if ((vip == 1)) {
  VIP = true:
}
Passengers passenger = new Passengers(lastName, fristName, age, lug, VIP);
return passenger;
```

This function to check free places in specific flight entered by the operator.

```
public static void checkForFreePlaces(List<Flights> flights) {
  Console.WriteLine("enter the flight number:");
  int flightNumber = Convert.ToInt32(Console.ReadLine());
  foreach (Flights flight in flights) {
     if ((flight.FlightNumber == flightNumber)) {
       int places = (flight.TotalNumberOfPassengers - flight.OccupiedPlaces);
       if ((places <= 0)) {
          Console.WriteLine("Unfortunatly, all the places are occupied:(");
       }
       else {
          Console.WriteLine(("Fortunately "
                    + (places + " are still availables :D ")));
       }
       break;
    }
  }
```

This function calculates the price for a specific passenger in a specific flight.

```
public static void calculatePrice(List<Flights> flights) {
     //Passengers pas = null;
     Console.WriteLine("enter your flightNumber: ");
     int flightNumber = Convert.ToInt32(Console.ReadLine());
     Console.WriteLine("enter your passengerld: ");
     int passengerId = Convert.ToInt32(Console.ReadLine());
     double price = 0; int i = 0;
     foreach (Flights f in flights) {
       if ((f.FlightNumber == flightNumber)) {
          foreach (Passengers p in f.Passengers) {
            if ((p.PassengerId)) {
               price = (f.Prix + p.Packages.Price);
               if ((p.VIP == true))
               {
                 price *= (f.PrixReductionVIP / 100);
               }
               Console.WriteLine(("the total price is: " + price + " Euro"));
               break;
            }
          }
          if(price == 0)
          {
            Console.WriteLine("wrong passengerId or passenger not registred in tha flight: ");
          }
          i++;
```

```
break;

if (i == 0)
{
    Console.WriteLine("wrong flight number");
}
```

The code of Flight script:

```
using System;
using System.Collections.Generic;
public class Flights
{
      private static int count = 0;
      private int flightNumber;
      private string Destionation_Conflict;
      private string Depart_Conflict;
      private int totalNumberOfPassengers;
      private int prix;
This is the default value of the reduction price for VIP passengers.
      private double prixReductionVIP = 0.25;
      private DateTime dateDepart;
      private int occupiedPlaces = 0;
      private IList<Passengers> passengers = new List<Passengers>();
      public Flights() : base()
      {
      }
Constructor that allows us to create a new flight with the according informations: destination,
departure place , price total number of passengers.
      public Flights(string destionation, string depart, int prix, int totalNumberOfPassengers) :
base()
             this.FlightNumber = ++count;
             Destionation_Conflict = destionation;
             Depart_Conflict = depart;
             this.prix = prix;
             this.totalNumberOfPassengers = totalNumberOfPassengers;
      }
Constructor that allows us to create a new flight with the according informations: destination,
departure place, price total number of passengers, date.
      public Flights(string destionation, string depart, DateTime departDate, int prix, int
totalNumberOfPassengers) : base()
      {
             this.FlightNumber = ++count;
             this.Destionation_Conflict = destionation;
             this.Depart_Conflict = depart;
             this.dateDepart = departDate;
             this.prix = prix;
             this.totalNumberOfPassengers = totalNumberOfPassengers;
      }
```

```
Constructor that allows us to create a new flight with the according informations: destination,
departure place, price total number of passengers, list of passengers.
      public Flights(string destionation, string depart, int prix, int totalNumberOfPassengers,
IList<Passengers> passengers) : base()
      {
             this.FlightNumber = ++count;
             Destionation Conflict = destionation;
             Depart Conflict = depart;
             this.prix = prix;
             this.totalNumberOfPassengers = totalNumberOfPassengers;
             this.passengers = passengers;
Constructor that allows us to create a new flight with the according informations: destination,
departure place , price, total number of passengers, date ,list of passengers.
      public Flights(string destionation, string depart, DateTime departDate, int prix, int
totalNumberOfPassengers, IList<Passengers> passengers) : base()
      {
             this.FlightNumber = ++count;
             this.Destionation Conflict = destionation;
             this.Depart_Conflict = depart;
             this.dateDepart = departDate;
             this.prix = prix;
             this.totalNumberOfPassengers = totalNumberOfPassengers;
             this.passengers = passengers;
      }
This function allow us to get and set the flight number from the outside of the class.
      public virtual int FlightNumber
      {
             get
             {
                    return this.flightNumber;
             }
             set
             {
                    this.flightNumber = value;
             }
      }
This function allow us to get and set the destination from the outside of the class.
      public virtual string Destionation
      {
             get
             {
                    return Destionation_Conflict;
             }
             set
             {
                    Destionation_Conflict = value;
             }
      }
```

}

```
This function allow us to get and set the depart from the outside of the class.
       public virtual string Depart
              get
                     return Depart_Conflict;
              }
              set
                     Depart_Conflict = value;
              }
      }
This function allow us to get and set flight time from the outside of the class.
       public virtual DateTime DepartDate
              get
              {
                     return this.dateDepart;
              }
              set
              {
                     this.dateDepart = value;
              }
      }
This function allow us to get and set the total number of passengers from the outside of the class.
       public virtual int TotalNumberOfPassengers
              get
              {
                     return this.totalNumberOfPassengers;
              }
              set
              {
                     this.totalNumberOfPassengers = value;
              }
      }
This function allow us to get and set the price from the outside of the class.
       public virtual int Prix
              get
              {
                     return prix;
              }
              set
              {
                     this.prix = value;
```

This function allow us to get and set the price reduction for VIP from the outside of the class.

```
public virtual double PrixReductionVIP
{
         get
         {
               return prixReductionVIP;
         }
         set
         {
                  this.prixReductionVIP = value;
               }
}
```

This function allow us to get and set the occupied places from the outside of the class.

```
public virtual int OccupiedPlaces
{
    get
    {
        if (this.passengers.Count == 0)
        {
            return 0;
        }
        this.occupiedPlaces = this.passengers.Count;
        return this.occupiedPlaces;
    }
    set
    {
        this.occupiedPlaces = value;
    }
}
```

This function allow us to get and set the list of passengers from the outside of the class.

```
public virtual IList<Passengers> Passengers
{
         get
         {
             return passengers;
        }
        set
        {
             this.passengers = value;
        }
}
```

This function allow us to add a passenger to the list of passengers of the created flight from the outside of the class.

```
public virtual void addPassengers(IList<Passengers> passengers, Passengers passenger)
{
    this.passengers.Add(passenger);
}
```

This function allow us to us print all the available informations of the flight that are not null from the outside of the class.

```
public override string ToString()
              return "Flight [Flight Number =" + flightNumber + ", " +
(!string.ReferenceEquals(Destionation, null) ? "Destionation =" + Destionation + ", " : "") +
(!string.ReferenceEquals(Depart, null) ? "Depart =" + Depart + ", " : "") + (dateDepart != null ?
"DepartDate =" + dateDepart + ", " : "") + "Total Number Of Passengers = =" +
totalNumberOfPassengers + ", Prix =" + prix + " , Prix Reduction VIP = " + prixReductionVIP + ",
Occupied Places =" + occupiedPlaces +
               (!string.ReferenceEquals(passengers, null) ? "Passengers =" + Passengers.ToString() +
      }
}
The code of Passengers script:
public class Passengers
       private static int id = 0;
       private static int passengerId;
       private string lastName;
       private string fristName;
       private int age;
       private Packages packages;
       private int flightNum;
       private bool VIP_Conflict;
       public Passengers() : base()
       {
Constructor that allows us to create a new passenger with the according informations:last name ,
first name, age, its packages, and if it is VIP passenger or not.
       public Passengers(string lastName, string fristName, int age, Packages packages, bool vIP) :
base()
       {
              this.PassengerId = ++id;
              this.lastName = lastName;
              this.fristName = fristName;
              this.age = age;
              this.packages = packages;
              VIP Conflict = vIP;
       }
Constructor that allows us to create a new passenger with the according informations:last name,
first name, age, its luggages, and if it is VIP passenger or not, flight number.
       public Passengers(string lastName, string fristName, int age, Packages packages, int
flightNum, bool vIP) : base()
       {
              this.PassengerId = ++id;
              this.lastName = lastName;
              this.fristName = fristName;
              this.age = age;
              this.packages = packages;
              this.flightNum = flightNum;
              VIP_Conflict = vIP;
       }
```

This function allow us to get and set the passenger Id from the outside of the class.

```
public virtual int PassengerId
              get
                     return passengerId;
              set
                     Passengers.passengerId = value;
              }
      }
This function allow us to get and set the last name of the passenger from the outside of the class.
      public virtual string LastName
              get
              {
                     return lastName;
              }
              set
              {
                     this.lastName = value;
This function allow us to get and set the first name of the passenger from the outside of the class.
      public virtual string FristName
              get
              {
                     return fristName;
              }
              set
              {
                     this.fristName = value;
      }
This function allow us to get and set the age of the passenger from the outside of the class.
      public virtual int Age
              get
              {
                     return age;
              }
              set
              {
                     this.age = value;
```

This function allow us to get and set the packages of the passenger from the outside of the class.

```
public virtual Packages Packages
               get
                       return packages;
               set
                       this.packages = value;
               }
       }
This function allow us to get and set the flight number e of the passenger from the outside of the
class.
       public virtual int FlightNum
               get
               {
                       return flightNum;
               }
               set
               {
                       this.flightNum = value;
       }
This function allow us to get and set the true value of the Passenger Id from the outside of the
class.
       public virtual bool VIP
               get
               {
                       return VIP_Conflict;
               }
               set
               {
                       VIP_Conflict = value;
       }
This function allow us to us print all the available informations of the passenger that are not null
from the outside of the class.
       public override string ToString()
       {
               return "Passengers [PassengerId =" + PassengerId + ", " +
(!string.ReferenceEquals(LastName, null) ? "Last Name =" + LastName + ", " : "") +
(!string.ReferenceEquals(FristName, null) ? "Frist Name =" + FristName + ", " : "") + "getAge =" +
Age + ", " + (Packages != null ? "getPackages =" + Packages + ", " : "") + "getFlightNum =" + FlightNum + ", isVIP =" + VIP + "]";
       }
```

The code of Packages script:

```
using System;
public class Packages
       private double kilo_HandBag = 10;
       private double kilo_CheckedBaggages = 30;
       private double price = 10;
       public Packages() : base()
       {
Constructor that allows us to create a new package for the user with the according informations:
weight in Kilo of the hand bag and the weight in kilo of the checked luggages.
       public Packages(double kilo_HandBag, double kilo_CheckedBaggages) : base()
              if (kilo_HandBag > 10)
              {
                    Console.WriteLine("kilo of handbag baggages more than the allowed kilos (10
kg)");
                    return;
              this.kilo_HandBag = kilo_HandBag;
              this.kilo_CheckedBaggages = kilo_CheckedBaggages;
       }
This function allow us to get and set the weight in Kilo for the hand bag of a specific passenger
from the outside of the class.
       public virtual double Kilo_HandBag
             get
              {
                     return kilo_HandBag;
              }
              set
                    this.kilo_HandBag = value;
              }
This function allow us to get and set the weight in Kilo for the checked luggages of a specific
passenger from the outside of the class.
       public virtual double Kilo CheckedBaggages
              get
              {
                     return kilo CheckedBaggages;
              }
              set
              {
                    this.kilo_CheckedBaggages = value;
              }
       }
```

This function allow us to get and set the price of the hand bag and the checked luggages of a specific passenger from the outside of the class.

```
public virtual double Price
{
    get
    {
        if (this.Kilo_CheckedBaggages > 30)
        {
            this.price = (this.Kilo_CheckedBaggages - 30) * (this.price);
        }
        return price;
    }
    set
    {
        this.price = value;
    }
}
```

This function allow us to us print all the informations of the luggages rom the outside of the class.

Running the Program :

In order to run the program correctly the operator should first register a flight in the system than check, add a passenger and check prices or any service wanted by the user.

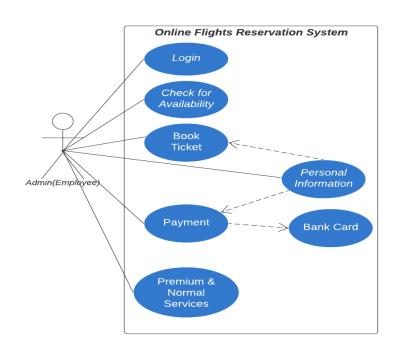
I join pictures for an example application for the program.

```
đ
E:\Users\MULTI_TECH\Desktop\M2\Development of software app\so\BookingFlightsManagerC\projet\bin\Debug\ConsoleApplication.exe
 Please type '1' to add a flight
Please type '2' to check the available flights
Please type '3' to check the available free places in a specific flight
Please type '4' to book flight for a passenger
Please type '5' to calculate the price of the booking flight for a passenger
Please type '6' to check the services available for the VIP passengers
  nter the destination of the flight:
  pain
nter the point depart of the flight:
  ungary
nter the year of the flight:
 nter the month of the flight:
   nter the day of the flight:
  nter the hour of the flight:
    ter the minutes of the flight:
   nter the seconds of the flight:
  nter the price of the flight:
    ter the total number of the passengers:
  light added successfully
  light Booking Manager
 lease type '1' to add a flight
lease type '2' to check the available flights
lease type '3' to check the available free places in a specific flight
lease type '4' to book flight for a passenger
lease type '5' to calculate the price of the booking flight for a passenger
lease type '6' to check the services available for the VIP passengers
                                                                                                                                                                                                                                                                    Activer Windows
 :
To print all the available flights type: 1
To print all the available flights for a specific destination type: 2
To print all the available flights for a specific destination from a specific point of depart type:
🔳 C:\Users\MULTI_TECH\Desktop\M2\Development of software app\so\BookingFlightsManagerC\projet\bin\Debug\ConsoleApplication.exe
                                                                                                                                                                                                                                                                                                                                               Ð
    ter the total number of the passengers:
  light added successfully
  light Booking Manager
  lease type '1' to add a flight
lease type '2' to check the available flights
lease type '3' to check the available free places in a specific flight
lease type '4' to book flight for a passenger
lease type '5' to calculate the price of the booking flight for a passenger
lease type '6' to check the services available for the VIP passengers
 o
fo print all the available flights type: 1
fo print all the available flights for a specific destination type: 2
fo print all the available flights for a specific destination from a specific point of depart type: 3
fo print all the available flights for a specific date: 4
fo print all the available flights for a specific destination from a specific point of depart type for a specific date: 5
fo print all the available flights for a specific destination from a specific point of depart type for a specific date: 6
  light Booking Manager
 Please type '1' to add a flight
Please type '2' to check the available flights
Please type '3' to check the available free places in a specific flight
Please type '4' to book flight for a passenger
Please type '5' to calculate the price of the booking flight for a passenger
Please type '6' to check the services available for the VIP passengers
   nter the flight number:
  ortunately 15 are still availables :D
  light Booking Manager
  lease type '1' to add a flight
lease type '2' to check the available flights
lease type '3' to check the available free places in a specific flight
lease type '4' to book flight for a passenger
lease type '5' to calculate the price of the booking flight for a passenger
                                                                                                                                                                                                                                                                    Activer Windows
```

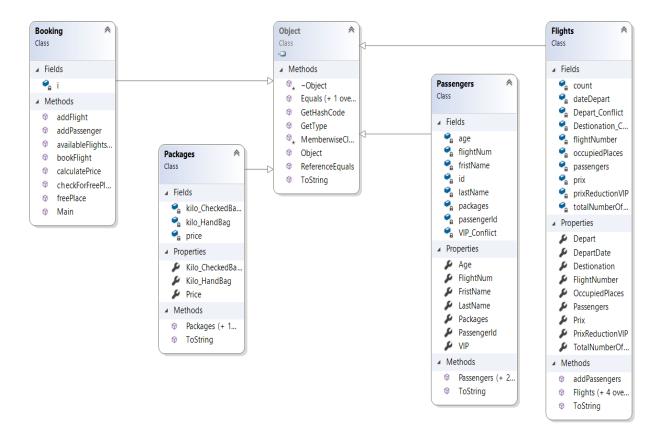
```
C:\Users\MULTI_TECH\Desktop\M2\Development of software app\so\BookingFlightsManagerC\projet\bin\Debug\ConsoleApplication.exe
enter the weight of passenger's checked baggages
    the passenger a VIP?
 light Booking Manager
 lease type '1' to add a flight
lease type '2' to check the available flights
lease type '3' to check the available free places in a specific flight
lease type '4' to book flight for a passenger
lease type '5' to calculate the price of the booking flight for a passenger
lease type '6' to check the services available for the VIP passengers
  nter your flightNumber:
 nter your passengerId:
  he total price is: 110 Euro
 light Booking Manager
Please type '1' to add a flight
Please type '2' to check the available flights
Please type '3' to check the available free places in a specific flight
Please type '4' to book flight for a passenger
Please type '5' to calculate the price of the booking flight for a passenger
Please type '6' to check the services available for the VIP passengers
  nter the flight number:
  nter the passenger id:
  orry, these services are available only for VIP passengers
 light Booking Manager
                                                                                                                                                                                                                                                         Activer Windows
 lease type '1' to add a flight
lease type '2' to check the available flights
lease type '3' to check the available free places in a specific flight
```

UML DIAGRAMS

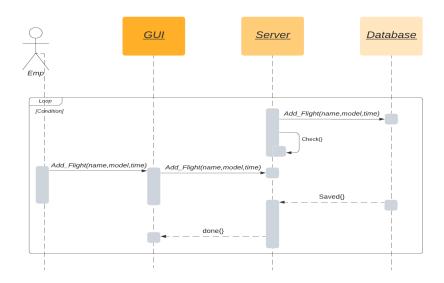
1) UML USE CASE DIAGRAM

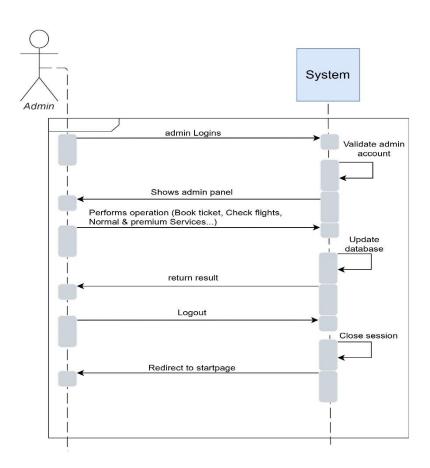


2) UML CLASS DIAGRAM



3) UML SEQUENCE DIAGRAMS





4) EXTRA WORK

 $\underline{https://github.com/sanahaddou/Homework-of-Developpement-of-Software-applications}$