JOYFUL CORNER

جامعة الإمام عبدالرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

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Introduction:

Our project idea came from our reality so, we've decided to build and design software that helps all society segments to find places where they can enjoy and have fun.
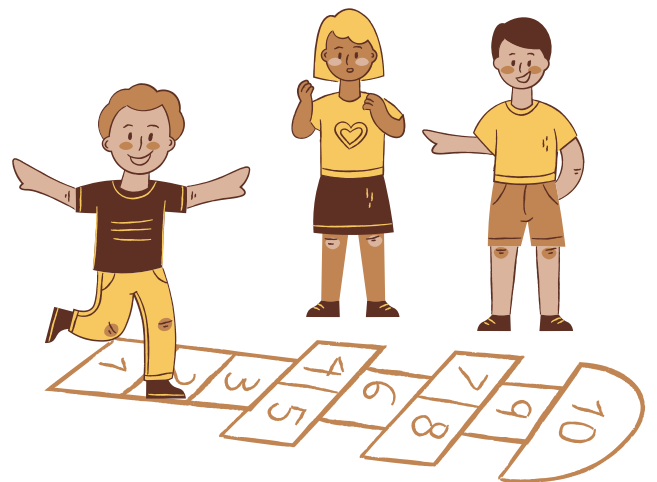
Problem statement:

Finding A place to hangout is one of the most difficult things, and when families try to find somewhere they often end up sitting home because there is no guide for new events or places
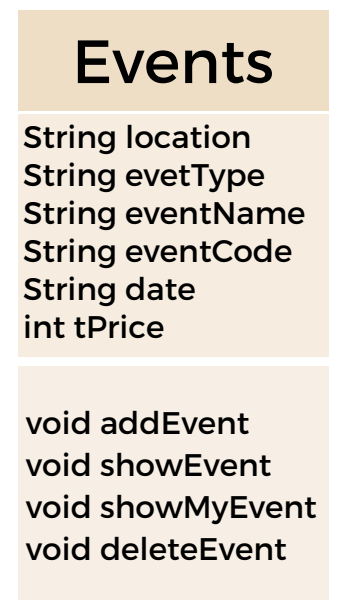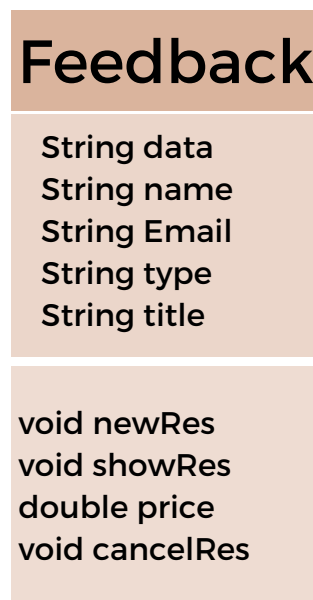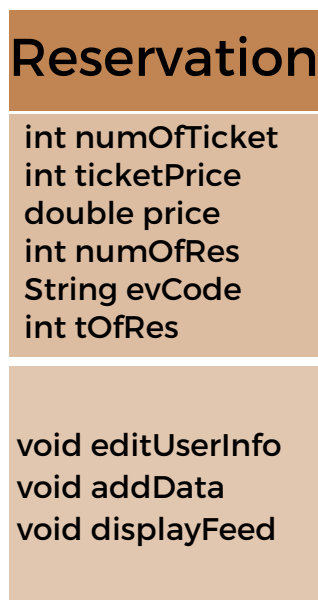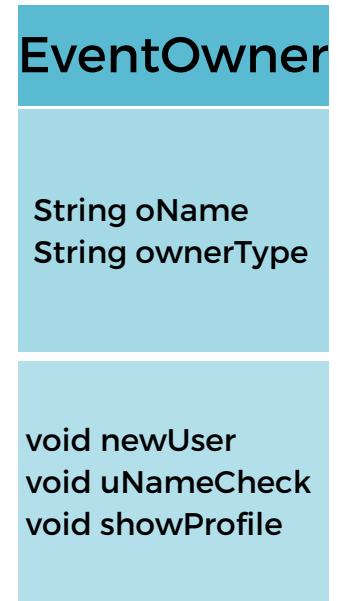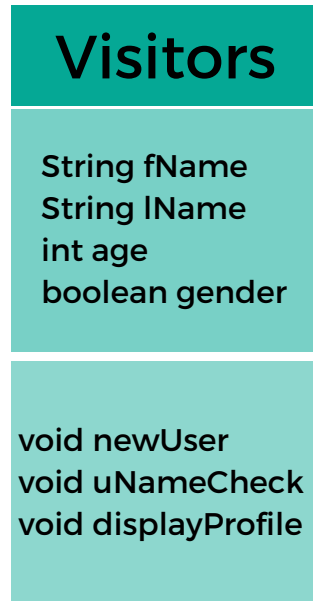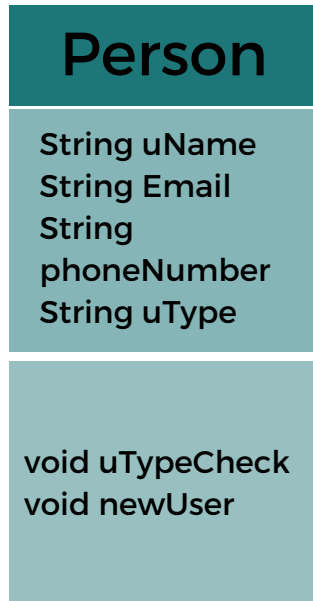
Target:

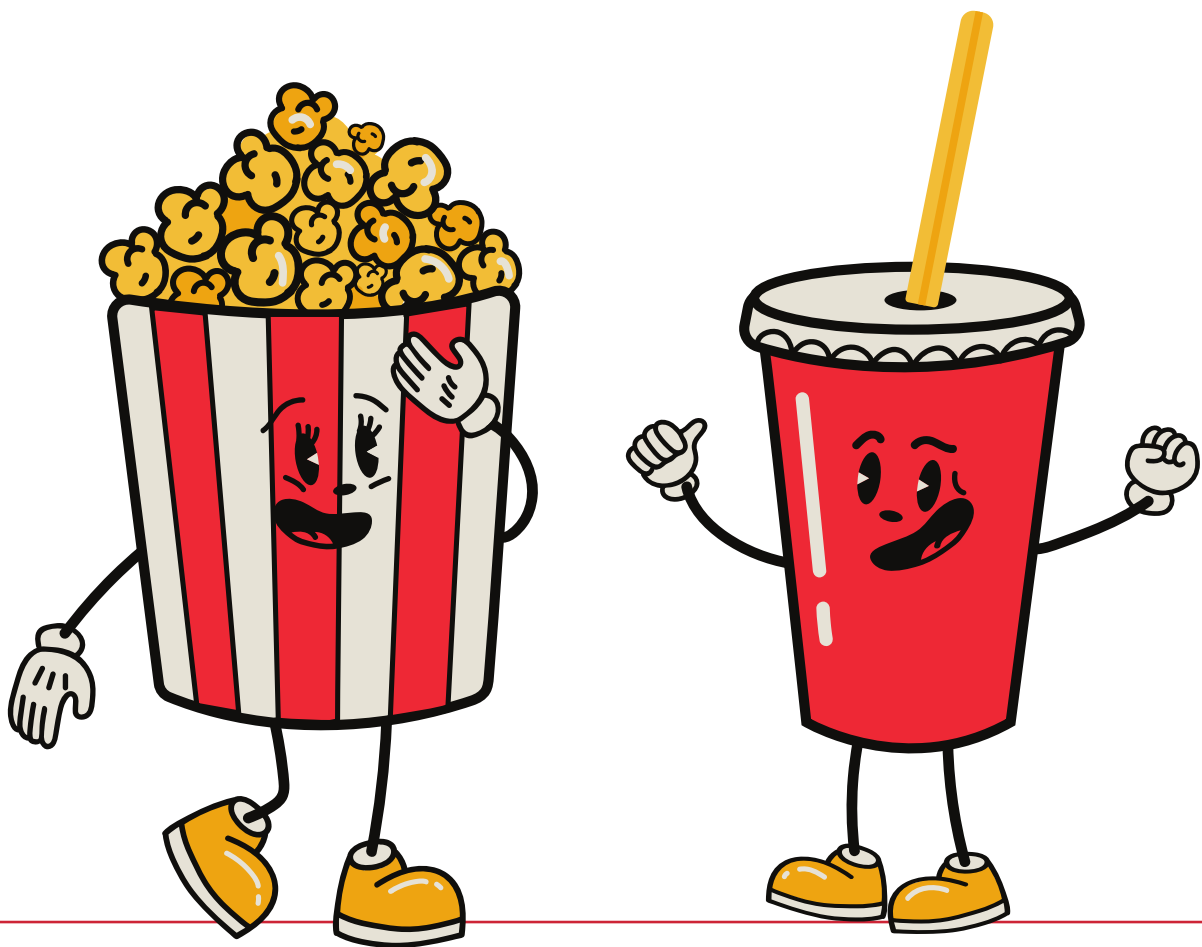Our application goal is to achieve the following points:

- Serve all society segments starting from elderly to children.

- Provide places that suit all tastes (restaurants, events, etc).

- Simplify the process of finding a new place to hangout

- Expand the field of communication with others

- Raising the level of the kingdom in entertainment sector

UML:

Person

String uName
String Email
String phoneNumber
String uType

void uTypeCheck
void newUser

Visitors

String fName
String lName
int age
boolean gender

void newUser
void uNameCheck
void displayProfile

EventOwner

String oName
String ownerType

void newUser
void uNameCheck
void showProfile

Reservation

int numOfTicket
int ticketPrice
double price
int numOfRes
String evCode
int tOfRes

void editUserInfo
void addData
void displayFeed

Feedback

String data
String name
String Email
String type
String title

void newRes
void showRes
double price
void cancelRes

Events

String location
String evetType
String eventName
String eventCode
String date
int tPrice

void addEvent
void showEvent
void showMyEvent
void deleteEvent

Java source code

Main Class:

```java
package joyfullcorner;
import java.util.Scanner;
public class JoyfullCorner {
    public static void main(String[] args) {
        int choice; //to choose action//
        boolean flag = false;
        Scanner in = new Scanner(System.in);

        System.out.println("\t -Welcome to joyful corner!- \t");
        System.out.println("Choose a number from the follwing list:  ");
        System.out.println("1. to sign in");
        System.out.println("2. to sign up");
        System.out.println("3. to conitnue as visitor");

        do {
        System.out.println("Your choice: ");
        choice = in.nextInt();
        switch (choice) {
            case 1 -> {
                signIn();
                flag = true;
                }
            case 2 -> {
                Person.uTypeCheck();
                flag = true;
                }
            case 3 -> //visitor options//
                flag = true;
            default -> System.out.println("Invalid input!");
        }
        }while(flag == false);
    }
```

```java
public static void signIn (){
    Scanner in = new Scanner(System.in);
    System.out.println("Are you signing as a visitor or an event
owner? (1 for visitor or 2 event owner)");
    int check =0;
    String uName = null;
    int option =0;
    check = in.nextInt();
    switch (check){
        case 1:
            System.out.println("Enter your username: ");
            uName = in.next();
            for(int i=0;i<Person.uname.size();i++){
            if (Person.uname.get(i).equals(uName)){
             Events.showEvent();
             System.out.println("What would you like to do next? ");
             System.out.println("1. display your profile");
             System.out.println("2. give feedback");
             System.out.println("3. make reservation");
             System.out.println("4. show reservations");
            option = in.nextInt();
            switch (option){
                case 1:
                    Visitors.displayProfile(Person.visitor);
                    break;
                case 2:
                    Feedback.addData();
                    break;
                case 3:
                    Reservation.newRes(Events.event);
                    break;
                case 4:
                    Reservation.showRes();
                    break;
```

```java
        default:
        System.out.println("invalid input");
        }
        }
        else
        System.out.println("username doesn't exist!");
        }
        break;
        case 2:
        System.out.println("Enter your username: ");
        uName = in.next();
        for(int i=0;i<Person.uname.size();i++){
        if (Person.uname.get(i).equals(uName)){
        Events.showEvent();
        System.out.println("What would you like to do next? ");
        System.out.println("1. display your events");
        System.out.println("2. delete an event");
        System.out.println("3. add an event");
        option =in.nextInt();
        switch (option){
        case 1:
        Events.showMyEvent();
        break;
        case 2:
        Events.deleteEvent();
        break;
        case 3:
        Events.addEvent();
        break;
        default:
        System.out.println("invalid input");
        }}}
    default:
                System.out.println("invalid input!"); } }}
```

Person Class:

```java
package joyfullcorner;
import java.util.ArrayList;
import java.util.Scanner;
public class Person {
    static String uName; //User name//
    static String Email;
    static String phoneNumber;
    static String uType; //user type visitor or owner//
    static ArrayList<Person> uname = new ArrayList();
    static Scanner in = new Scanner(System.in);
    static ArrayList<EventOwner> owners = new ArrayList();
    static ArrayList<Person> visitor = new ArrayList();
    public Person(String uName) {
    }
    public Person(String uName, String Email, String phoneNumber,
String uType) {
        Person.uName =uName;
        Person.Email = Email;
        Person.phoneNumber = phoneNumber;
        Person.uType = uType;
    }
    public static void  uTypeCheck(){
        int choice;
        System.out.println("You will be signing up as: ");
        System.out.println("1. Event owner");
        System.out.println("2. Visitor");
        choice = in.nextInt();
}
```

```java
switch (choice){
case 1:
EventOwner.newUser(owners);
break;
case 2:
Visitors.newUser(visitor);
break;
default:
System.out.println("invalid input");
}
}
public static void newUser(){

}
}
```

Visitor Class:

```java
package joyfullcorner;
import java.util.ArrayList;
import java.util.Scanner;
public class Visitors extends Person {
    static Scanner in = new Scanner(System.in);
    static String fName;
    static String lName;
    static int age;
    static boolean gender;
    public Visitors(ArrayList<Person> uname1, String fName, String lName, int age, boolean gender, String uName, String Email) {
        super(uName, Email, phoneNumber, uType);
        Visitors.fName = fName;
        Visitors.lName = lName;
        Visitors.age = age;
        Visitors.gender = gender;
    }
    public static void newUser(ArrayList<Person> visitors){
        boolean check;
        do{
        System.out.println("Enter user name: ");
        uName = in.next();
        check = uNameCheck(visitors);
        uname.add(new Person(uName));
        }while (check == false);
```

```java
System.out.println("Enter your first name: ");
fName = in.next();
System.out.println("Enter your last name: ");
lName = in.next();
System.out.println("Enter your age: ");
age = in.nextInt();
System.out.println("Enter your gender: ");//check varible type//
gender = in.hasNextBoolean();
System.out.println("Enter your Email: ");
Email = in.next();
System.out.println("Enter your phone number: ");
phoneNumber = in.next();
visitors.add(new Visitors (uname,
fName,lName,age,gender,Email,phoneNumber));
int option = 0;
Events.showEvent();
System.out.println("What would you like to do next? ");
System.out.println("1. display your profile");
System.out.println("2. give feedback");
System.out.println("3. make reservation");
System.out.println("4. show reservations");
option = in.nextInt();
switch (option){
case 1:
Visitors.displayProfile(Person.visitor);
break;
case 2:
Feedback.addData();
break;
case 3:
Reservation.newRes(Events.event);
break;
case 4:
Reservation.showRes();
break;
```

```java
       default:
        System.out.println("invalid input");
       }
       }
       public static boolean uNameCheck(ArrayList<Person> visitor){
       boolean flag =true;
       for (int i=0;i<visitor.size();i++){
       if(uname.get(i) == visitor.get(i)){
       System.out.println("This user name belong to unother user, chose
       different user name");
       newUser(visitor);
       flag = false;
       return flag;
       }
       else
       flag = true;

       }
       return flag;
       }
       public static void displayProfile(ArrayList<Person> visitor){
      System.out.println("Enter your user name: ");
       uName = in.next();
       for (int i=0;i<uname.size();i++){
       if (uname.get(i)== visitor.get(i)){
       System.out.println("Your user name: " + visitor.get(0));
       System.out.println("Your first name: " + visitor.get(1));
       System.out.println("Your last name: " + visitor.get(2));
       System.out.println("Your age: " + visitor.get(3));
       System.out.println("Your gender: " + visitor.get(4));
       System.out.println("Your email: " + visitor.get(5));
       System.out.println("Your phone number: " + visitor.get(6));
       }
       else
       System.out.println("this user name doesn't exist"); } } }
```

EventOwner Class:

```java
package joyfullcorner;

import java.util.ArrayList;
import java.util.Scanner;
import static joyfullcorner.Person.Email;
import static joyfullcorner.Person.phoneNumber;
import static joyfullcorner.Person.uName;
import static joyfullcorner.Person.uname;


public class EventOwner extends Person {
    static String oName;
    static String ownerType;
    static Scanner in = new Scanner(System.in);


    public EventOwner(String oName, String ownerType, String
uName, String Email, String phoneNumber) {
        super(uName, Email, phoneNumber, uType);
        EventOwner.oName = oName;
        EventOwner.ownerType = ownerType;
    }
    public static void newUser(ArrayList<EventOwner> owner){
        boolean check;
        do{
        System.out.println("Enter user name: ");
        uName = in.next();
        check = uNameCheck(owner);
        uname.add(new Person(uName));
        }while (check == false);
```

```java
System.out.println("Enter owner's name: ");
oName=in.next();
System.out.println("Enter owner's type: (Restaurant, festival, etc");
ownerType=in.next();
System.out.println("Enter your Email: ");
Email = in.next();
System.out.println("Enter your phone number: ");
phoneNumber = in.next();
owner.add(new EventOwner (oName,
ownerType,uName,Email,phoneNumber));
int option =0;
Events.showEvent();
System.out.println("What would you like to do next? ");
System.out.println("1. display your events");
System.out.println("2. delete an event");
System.out.println("3. add an event");
option =in.nextInt();
switch (option){
case 1:
Events.showMyEvent();
break;
case 2:
Events.deleteEvent();
break;
case 3:
Events.addEvent();
break;
default:
System.out.println("invalid input");
}
}
```

```java
public static boolean uNameCheck(ArrayList<EventOwner>
owner){
 boolean flag =true;
 for (int i=0;i<owner.size();i++){
 if(uname.get(i) == owner.get(i)){
 System.out.println("This user name belong to unother user,
chose different user name");
 EventOwner.newUser(owner);
 flag = false;
 return flag;
 }
 else
 flag = true;

 }
 return flag;
 }
 public void showProfile(ArrayList<EventOwner> owner){
 uName = in.next();
 for (int i=0;i<uname.size();i++){
 if (uname.get(i)== owner.get(i)){
 System.out.println("Owner's name: " + owner.get(0));
 System.out.println("Owner's type: " + owner.get(1));
 System.out.println("Your user name: " + owner.get(2));
 System.out.println("Your email: " + owner.get(3));
 System.out.println("Your phone number: " + owner.get(4));
 }

 else
 System.out.println("this user name doesn't exist");

 }
 }
}
```

Event Class:

```java
package joyfullcorner;

import java.util.ArrayList;
import java.util.Scanner;
public class Events extends EventOwner {

    static String location;
    static String eventType;
    static String eventName;
    static String eventCode;
    static String date;
    static int tPrice;
    static Scanner in = new Scanner(System.in);
    static ArrayList<Events> event = new ArrayList();

    public Events(String location, String eventType, String
eventName, String eventCode, String date, String oName, int
tPrice) {
        super(oName, ownerType, uName, Email, phoneNumber);
        Events.location = location;
        Events.eventType = eventType;
        Events.eventName = eventName;
        Events.eventCode = eventCode;
        Events.date = date;
        Events.tPrice =tPrice;
    }

    public static int gettPrice() {
        return tPrice;
    }
```

```java
public static String getEventCode() {
 return eventCode;
 }

 public static void addEvent(){
 System.out.println("Enter event name: ");
 eventName = in.nextLine();
 System.out.println("Enter event type: ");
 eventType = in.nextLine();
 System.out.println("Enter event code: ");
 eventCode = in.nextLine();
 System.out.println("Enter event location: ");
 location = in.nextLine();
 System.out.println("Enter Date: ");
 date = in.next();
 System.out.println("Enter the price for one ticket: (if the reservation
 doesn't need payment set the price to 0) ");
 tPrice = in.nextInt();
 event.add(new Events (eventName, eventType, eventCode, location,
 date, oName, tPrice));
 }
 public static void showEvent(){
 System.out.println("All Events: ");
 for (int i=0;i<event.size();i++){
 System.out.println(event.get(i));
 }
 }

 public static void showMyEvent(){
 for (int i=0;i<event.size();i++){
 if (event.get(i).equals(oName)){
 System.out.println(event.get(i));
 }
```

```java
else {
System.out.println("You don't have any events!");
}
}
}

public static void deleteEvent(){
System.out.println("Enter event name you want to delete: ");
eventName = in.nextLine();
for (int i=0;i<event.size();i++){
if (event.get(i).equals(eventName)){
event.remove(i);
System.out.println("Event deleted successfully!");
}
else {
System.out.println("Event wasn't found");}
}
}
}
```

Reservation Class:

```java
package joyfullcorner;

import java.util.ArrayList;
import java.util.Scanner;

public class Reservation {
    static Scanner in =new Scanner(System.in);
    static int numOfTicket;
    static int ticketPrice;
    static double price;
    static int numOfRes;
    static String date;
    static String evCode;
    static int tOfRes;
    static ArrayList<Reservation>res=new ArrayList<Reservation>();

    public Reservation(int numOfTicket, int ticketPrice, double price,
int numOfRes, String evCode ) {
        Reservation.numOfTicket=numOfTicket;
        Reservation.ticketPrice=ticketPrice;
        Reservation.price =price;
        Reservation.numOfRes = numOfRes;
        Reservation.evCode = evCode ;
    }
    public static void newRes(ArrayList<Events> event){
        boolean flag = false;
        do {
        System.out.println("Enter the code of the event: ");
        evCode = in.next();
        String temp = Events.getEventCode();
        for (int i=0;i<event.size();i++)
```

```java
if (event.get(i).equals(temp)){
ticketPrice = Events.gettPrice();
flag = true;
}
else {
System.out.println("code wasn't found!");
}} while(flag == false);

System.out.println("Enter the number of tickets: ");
numOfTicket = in.nextInt();
System.out.println("Enter the date: (dd/mm/yyyy)");
date = in.nextLine();
System.out.println("The total price of your reservation is " + price());
numOfRes++;
res.add(new Reservation (numOfTicket, ticketPrice, price, numOfRes,
evCode));
System.out.println("Your reservation number is: " + numOfRes);
}
public static void showRes(){
for (int i=0;i<res.size();i++){
System.out.println("Reservations: ");
System.out.println(res.get(i));
}
}

public static double price(){
price = ticketPrice*numOfTicket;
return price;

}
public static void cancleRes(){
System.out.println("Enter the number of reservation you want to
delete: ");
numOfRes =in.nextInt();
```

```java
for (int i=0;i<res.size();i++){
 if (res.get(i).equals(numOfRes)){
 res.remove(i);
 System.out.println("Reservation deleted succefully!");
 }
 else
 System.out.println("invalid input");
 }
 }
}
```

Feedback Class:

```java
package joyfullcorner;
import java.util.Scanner;

public class Feedback {
    static Scanner input = new Scanner(System.in);
    static String data;
    static String name;
    static String email;
    static String type;
    static String title;

    public Feedback(String data, String name, String email, String type,
String title) {
        Feedback.data = data;
        Feedback.name = name;
        Feedback.email = email;
        Feedback.type = type;
        Feedback.title = title;
    }
    public static void editUserInfo(){
        System.out.println("Enter your edited feedback: ");
        data = input.nextLine();
    }
    public static void addData(){
        System.out.println("Enter your full name: ");
        name = input.nextLine();
        System.out.println("Enter your email: ");
        email = input.next();
        System.out.println("Enter the type of feedback(complaint or
suggestion): ");
```

```java
type = input.nextLine();
System.out.println("Enter your feedback: ");
data = input.nextLine();
}
public static void displayFeed(){
System.out.println("Name " + name);
System.out.println("Type of feedback " + type);
System.out.println("Your feedback: " + data);
}
}
```

Conclusion

In conclusion, we can say that our project was about software that helps people to find places to visit. The goals that we wanted to achieve at the end of the project:
- First to provide places that suit all tastes.
- Second to make the process of finding new places much easier.
- Third to serve all society segments from the elderly to children.
-Lastly, raise the level of the kingdom in the entertainment industry.
We hope that we have achieved all the objectives of the project and that the work presented was at the level of your expectations.