Cairo University Faculty of Computers and Information



CS251

Software Engineering-I

GoFo

Software Design Specifications

And Implementation

(PM-132)

Version 2.0

ID	Name	Email
20180158	عبد الرحمن محمد رمضان	yousef777906@gmail.com
20180392	عبد العزيز جمال موسى	Wqer20122@gmail.com
20180075	توفيق ياسر توفيق ابوسيف	tawfekyassertawfek@gmail.com

Jun 9, 2020







Software Design Specification

Contents

Instructions	4
Software Purpose	4
Software Scope	
Definitions, acronyms, and abbreviations	
Team	
Document Purpose and Audience	5
Document Purpose:	
Document Audience:	5
System Models	6
Class Diagram(s)	6
	θ
Class Descriptions	θ
Sequence diagrams	7
Class - Sequence Usage Table	11
User Interface Design	12
1. Registration:	12
2. Login:	12
3. Profile:	13
4. Home:	13
5. Send Mail:	14
6. Display Playgrounds:	14
7. Create team:	15
8. Book Playground:	15
Tools	16
StarUML	16
Adobe XD	16







	Eclipse:	16
О	wnership Report	16
Re	eferences	17
Sc	reen Snapshots:	17
	Register:	17
	Login:	17
	Add playground:	18
	Book playground:	18
	Display playgrounds:	18
	Create team with name and email:	19
C	ode Listing:	19
	Class main:	19
	Class player:-	25
Li	nks:	48
	GitHub link:	48
	Google Drive Code Link:	48
	Google Drive Javadoc. Link:	48
	Google Drive Video Link:	48





Software Design Specification

Instructions

Software Purpose

• Allow players to book playing hours in football playgrounds, (Software's audience Player, Playground Owner, and Administrator).

Software Scope

- Software identification: Playground Booking System.
- System will connect player with playground owner to simplify booking playground process.
- System will not allow playground owners to send messages to player.
- Use Classes: User Booking Payment Playground.
- Software Components / Major Features:
 - Book a playground, Create Profile, Payment, Mention, Search, and update time slots.

Definitions, acronyms, and abbreviations

- Booking: the process of book a specific time slot for a specific playground.
- Administrator: Oversees the system operations and control a whole system.
- Playground Owner: a person how adds his playground.
- Player: a person how book a playground.
- eWallet: the way that users can send and receive money a cross it.





Software Design Specification

Team

Mobile	Email	Name	ID
01129348206	tawfekyassertawfek@gmail.com	Tawfik Yasser Tawfik	20180075
01102053810	yousef777906@gmail.com	Abd el-rhman Mohamed Ramadan	20180158
01020687495	Wqer20122@gmail.com	Abdulaziz Jmal mousa	20180392

Document Purpose and Audience

Document Purpose:

- This document is written for SRS as a documentation for Go-Fo Application.
- o To be an agreement between us and the client.
- This document contains information and instructions for developers and customers.

Document Audience:

 Client – Developers – Judge (if happens disagreement) – Project Manager.

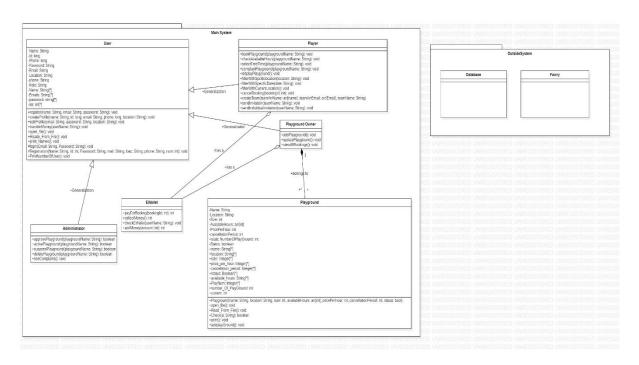




Software Design Specification

System Models

Class Diagram(s)



Class Descriptions

Description & Responsibility	Class Name	Class ID
Responsible for recording and saving the data of all users	User	1
Through the chapter, the user can search for stadiums, book a stadium, send an invitation to his friends, and delete a reservation	Player	2
Class is the pitch measurements of the stadium location, stadium price and hours available by the stadium owner	Playground	3
He has the right to add a stadium, adjust his hours, and set a specific price per hour	Playground Owner	4

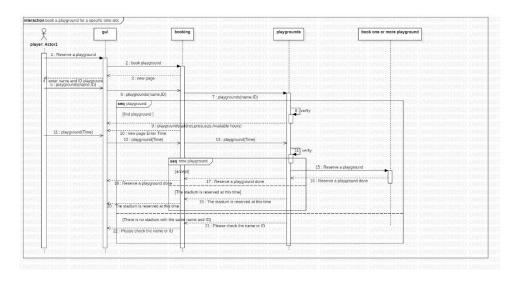




Software Design Specification

Description & Responsibility	Class Name	Class ID
It can suspend stadiums and add stadiums and permanently delete them so players cannot book them if they find complaints or violate the laws	Administrator	5
Through it, the user can reserve stadiums with money as the reservation needs money and communicate with his bank account	E-Wallet	6

Sequence diagrams

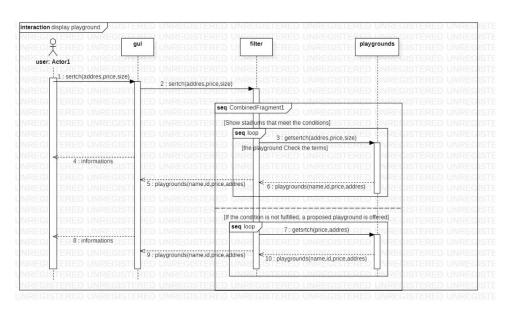


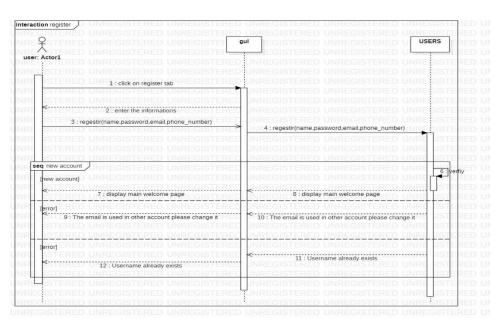




Software Design Specification

2.

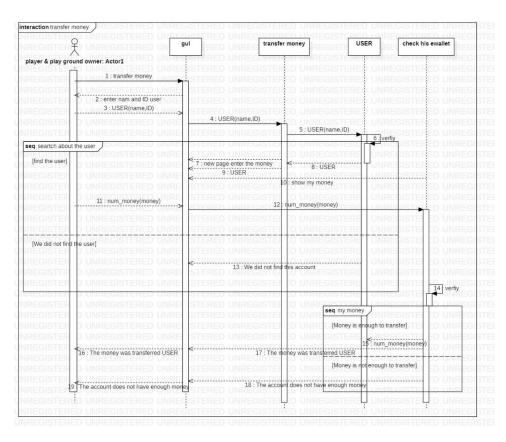








Software Design Specification

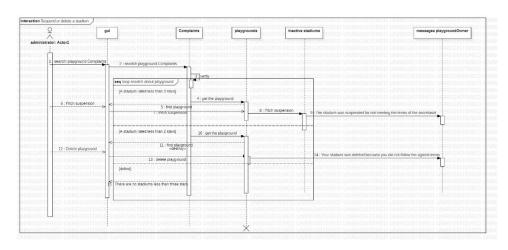


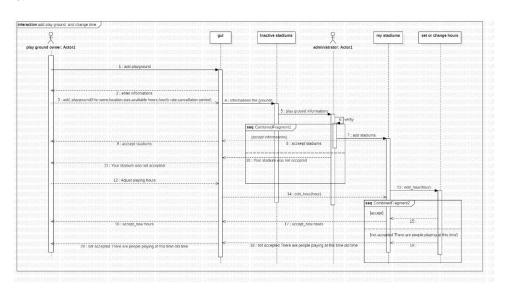




Software Design Specification

5.









Software Design Specification

Class - Sequence Usage Table

All Methods Used	Classes Used	Sequence Diagram
1.Regestir():void 2.Registration(Name,Id,Password,m ail,Location,ph,0):void	1-Class player 2-Class user 3-Class administrator 4-class 5-PlaygroundOwner	Register
1. Read_From_File():void 2. print():void	1-Class player 2-Class 3-PlaygroundOwner	display playground
1.addPlayGround():void	1-PlaygroundOwner	Add playground and change time
1. static Creating_Team():void 2. print_Team():void	1-Class Player	Create a team
1.AddMoney(int):void 2. transfer_money(int):void	1-Class 2-PlaygroundOwner 3-Class player	transfer money
1.static approvePlayground(String Name,String Location,int Size,int PricePerHour,int cancellationPeriod,boolean Status,ArrayList <string>availableH ours):boolean</string>	1- Administrator	Suspend or delete a stadium





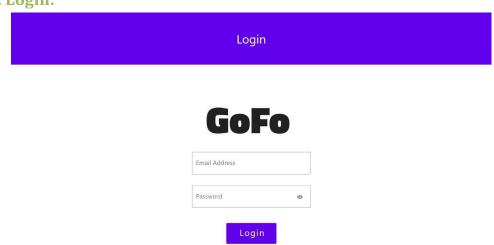
Software Design Specification

User Interface Design

1. Registration:

		Registeration	1
Username		GoFa	Phone
Email Address		GOFU	Role
Password	•	ID	Location

2. Login:

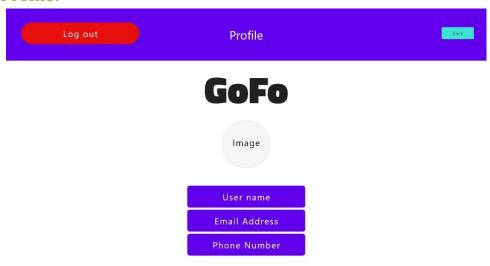






Software Design Specification

3. Profile:



4. Home:





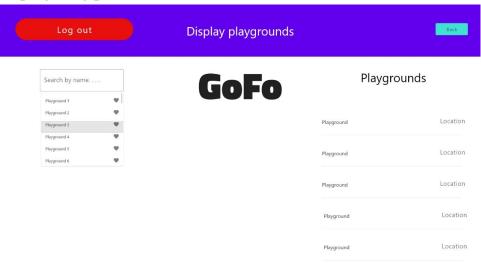


Software Design Specification

5. Send Mail:



6. Display Playgrounds:

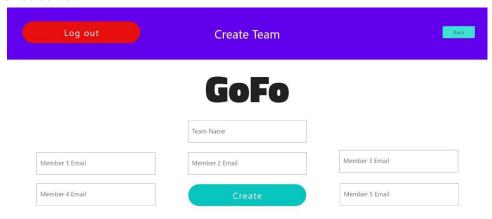




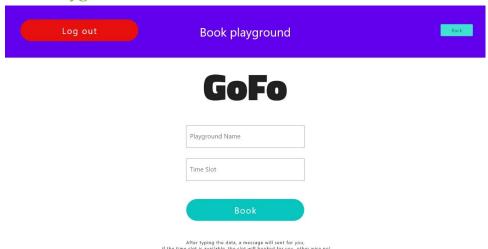


Software Design Specification

7. Create team:



8. Book Playground:







Software Design Specification

Screen ID	Screen Name	Screen / Wireframe Description
1	registration	Where the user first registers here And if he wants to have another account
2	login	If he has an account, he can enter his email address and password, and enter his account
3	profile	The account status is displayed where the image or name can be changed
4	home	The user can see all the previous options and go smoothly other than the first two
5	Send email	The user can send messages to a group or friends by setting the friend's name
6	Display playgrounds	The user can view the stadium, its location and book it if desired
7	Create team	A user can add five of his friends to the team and a suit will be sent to them via e-mail and name of team
8	Book playground	Through it you can enter the name of the stadium and book it

Tools

StarUML: We solved the class diagram and sequence diagrams by Staruml.

Adobe XD: We solved the user Interface Design by Adobe XD.

Eclipse: Code. And to communicate with version control system.

Ownership Report

Item	Owners
User Interface Design and Hosting (GitHub and Google drive) and Documentation (JavaDoc.).	Tawfik Yasser Tawfik
Part of Development and Screenshots	Abd el-rhman Mohamed Ramadan
Part of class diagram and sequence diagrams and Final file order.	Abdulaziz Jmal mousa





Software Design Specification

References

Source Link	Source Name
http://staruml.io/	Staruml
https://www.adobe.com/mena_ar/products/xd.html	Adobe XD
https://github.com/TawfikYasser/CS251FinalProjec	GitHub
https://drive.google.com/file/d/1IE5JFexhJ0941O2R4	Code on google drive
34UUBo37-lL_vJJ/view?usp=sharing	
https://drive.google.com/file/d/1LVHZk-	Javadoc on google
Ymc2wBkVlctzJDPojPu4ii_Nhq/view?usp=sharing	drive

Screen Snapshots:

Register:

```
Problems Javadoc & Declaration Corporar FloryLava Jokt 18.0. 221\bin\javawexe (lun 9, 2020, 612-59 AM)

Welcome to Gofo system.

1. Register.
2. Login.
3. Add playground.
4. Book playgrounds.
5. Create team.
1
For player enter 1, for owner enter 2
1 Please Enter your nick name
Tawfik Please Enter Your Jassword
123456789

Please Enter Your password
123456789

Please Enter Vour plocation
Cairo
Please Enter Your location
Cairo
Please Enter Your phone
glizable Enter Your phone
```

Login:

```
Replace of Savadoc Declaration Corsole X **Progress * Debug

***Cleminated * Main C7 | Nava Application| CAProgram Files/Java/Jdk1.8.0,221\bin/javaw.exe (fun 9, 2020, 6:14:16 AM)

**Well Come to Go for system.*

1. Register.
2. Login.
3. Add playground.
4. Book playgrounds.
6. Create team.
2. For player enter 1, for owner enter 2

**To player enter 1, for owner enter 2

**Progress **Debug**

**Progress **Progress **Debug**

**Progress *
```





Software Design Specification

Add playground:

Book playground:

Display playgrounds:







Software Design Specification

Create team with name and email:

Code Listing:

Class main:-

```
import java.io.IOException;
import java.util.ArrayList;
import java.util.Scanner;

public class Main {
    static Scanner scanner = new Scanner(System.in);
    static Player object = new Player();
    static PlayGround_Owner object2 = new PlayGround_Owner();
    static Playground object3 = new Playground();

public static void main(String[] args) {
    // TODO Auto-generated method stub
    start();
```





```
}
private static void start() {
  // TODO Auto-generated method stub
  System.out.println("Welcome to GoFo system.");
  System.out.println("1. Register.");
  System.out.println("2. Login.");
  System.out.println("3. Add playground.");
  System.out.println("4. Book playground.");
  System.out.println("5. Display playgorunds.");
  System.out.println("6. Create team.");
  int choise = scanner.nextInt();
  choosed(choise);
private static void choosed(int choise) {
  // TODO Auto-generated method stub
  switch (choise) {
  case 1:
    // register
```





```
System.out.println("For player enter 1, for owner enter 2");
  int rp = scanner.nextInt();
  if(rp == 1)
     object.Register();
  } else if (rp == 2) {
    object2.Register();
  } else {
    start();
  break;
case 2:
  // login
  System.out.println("For player enter 1, for owner enter 2");
  int lp = scanner.nextInt();
  if (lp == 1) {
    object.login();
  } else if (lp == 2) {
     object2.login();
  } else {
    start();
```





```
break;
case 3:
  // add playground
  object3.addPlayGround();
  break;
case 4:
  // booking
  object3.Read_From_File();
  object.Booking();
  break;
case 5:
  // display playgrounds
  object3.Read_From_File();
  object3.print();
  break;
case 6:
  // create team
  object.Creating_Team();
```







Software Design Specification

```
object.print_Team();
break;
}
}
```

Class Administrator:-

```
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
public class Administrator {
    public void open_file() throws IOException
    {
        File My_object=new File("PlayGround.txt");
        if(My_object.createNewFile())
        {
            System.out.println("Created");
            System.out.println(My_object.getName());
        }
        else
```







```
{
            System.out.println("there are some problem");
          }
        }
        public static boolean approvePlayground(String Name,String Location,int Size,int
IOException {
          // FileWriter My_Writer= new FileWriter("PlayGround.txt",true);
if(!Name.isEmpty()&&!Location.isEmpty()&&Size!=0&&PricePerHour!=0&&cancellationPeriod!=0&&S
tatus==false&&availableHours.size()+1>0) {
             System.out.println(".");
             System.out.println(".");
             System.out.println(".");
             System.out.println("Playground data is correct, it is approved successfully!");
            return true;
           }else {
            return false;
           }
        }
```





Software Design Specification

Class player:-

```
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Scanner;
public class Player extends User{
  static ArrayList<String>TeamMails=new ArrayList<String>();
  static ArrayList<String>TeamNames=new ArrayList<String>();
  public void Register(){
     Scanner Scan=new Scanner(System.in);
     System.out.println("Please Enter your nick name");
     String Name;
    Name=Scan.next();
     System.out.println("Please Enter Your Id");
     int Id=Scan.nextInt();
     System.out.println("Please Enter Your password");
     String Password=Scan.next();
     System.out.println("Please Enter Mail");
     String mail=Scan.next();
     System.out.println("please Enter Your location");
     String Location=Scan.next();
```





Software Design Specification

```
System.out.println("Please Enter your phone");
  String ph=Scan.next();
  Registration(Name,Id,Password,mail,Location,ph,0);
  Scan.close();
public void login()
  Scanner Scan=new Scanner(System.in);
  System.out.println("Please Enter Mail");
  String mail=Scan.next();
  System.out.println("Please Enter Your password");
  String Password=Scan.next();
  login(mail,Password);
  Scan.close();
Playground object=new Playground();
public void Booking()
  System.out.println("Type playground name: ");
  Scanner scanner = new Scanner(System.in);
  String name = scanner.next();
  for(int i=0;i<Playground.name.size();i++) {</pre>
```





```
if(Playground.name.get(i).equals(name)) {
                 System.out.println("Playground Found!");
                 System.out.println(Playground.status.get(i));
                   if(Playground.status.get(i)) {
                        System.out.println("Type the hours to book like (5:00pm to 6:00pm)");
                        Scanner scanner2 = new Scanner(System.in);
                        String hour = scanner2.nextLine();
                       for(int j =0;j<Playground.available_hours.size();j++) {
                          if(Playground.check(hour)) {
                             System.out.println(hour + " is available.");
                            FileWriter My_Writer = null;
                            try {
                               My_Writer = new FileWriter("Booking.txt",true);
                               My_Writer.write("Current User booked: "+Playground.name.get(i)+"
"+hour+" ");
                               My\_Writer.write(''\n'');
                               My_Writer.close();
                               System.out.print("Sucessfully Booking a PlayGound");
                               break;
                            } catch (IOException e1) {
                               e1.printStackTrace();
                               break;
```





Software Design Specification

```
//break;
                 else {
                 System.out.println(hour + " is not available.");
                 break;
         }else {
            System.out.println("This playground is not available now!");
            break;
     }else {
       System.out.println("Playground not found!");
     break;
  scanner.close();
public static void Creating_Team()
{
  System.out.println("Please Enter the Team Number");
  Scanner Scan=new Scanner(System.in);
  int num=Scan.nextInt();
```





Software Design Specification

```
for(int i=0;i<num;i++) {
     System.out.println("Please Enter the ");
     TeamNames.add(Scan.next());
     System.out.println("Please Enter the Mail");
     TeamMails.add(Scan.next());
     FileWriter My_Writer = null;
     try {
       My_Writer = new FileWriter("Team&Mails.txt",true);
    } catch (IOException e1) {
       e1.printStackTrace();
     try {
       My_Writer.write(TeamNames.get(i)+''
                                                     "+TeamMails.get(i)+"\setminus n");
       My_Writer.close();
    } catch (IOException e) {
       e.printStackTrace();
  Scan.close();
public static void print_Team() {
  System.out.println("Name \t \t \t"+"Email \t \t');
  for(int i=0;i<TeamMails.size();i++)
```





Software Design Specification

```
{
               System.out.println(TeamNames.get(i)+'' \mid t \mid t'' + TeamMails.get(i)+'' \mid t \mid t'');
            }
          }
class playground:-
       import java.io.File;
       import java.io.FileNotFoundException;
       import java.io.FileReader;
       import java.io.FileWriter;
       import java.io.IOException;
       import java.util.ArrayList;
       import java.util.Scanner;
       public class Playground {
          private String Name, Location;
          private int Size, Price Per Hour, cancellation Period;
          private boolean Status;
          static int NumberOfPlayGround=0;
          public static ArrayList<String> name = new ArrayList<String>();
          public static ArrayList<String> location = new ArrayList<String>();
```





```
public static ArrayList<Integer> size = new ArrayList<Integer>();
          public static ArrayList<Integer> price_per_hour = new ArrayList<Integer>();
          public static ArrayList<Integer> cancellation_peroid = new ArrayList<Integer>();
          public static ArrayList<Boolean> status = new ArrayList<Boolean>();
          public static ArrayList<String>available_hours=new ArrayList<String>();
          public static ArrayList<Integer>PlayNum=new ArrayList<Integer>();
          static int number_Of_PlayGround=0;
          int current=0;
          public Playground()
          public Playground(String name, String location, int size, int pricePerHour, int
cancellationPeriod, boolean status, String[] availableHours) {
            Name = name;
            Location = location;
            Size = size;
            PricePerHour = pricePerHour;
            this.cancellationPeriod = cancellationPeriod;
            Status = status;
            //this.availableHours = availableHours;
          public void open_file() throws IOException
```







Software Design Specification

```
{
  File My_object=new File("PlayGround.txt");
  if(My_object.createNewFile())
  {
    System.out.println("Created");
    System.out.println(My_object.getName());
  }
  else
  {
    System.out.println("there are some problem");
public void Read_From_File()
  File MyObjec=new File("PlayGround.txt");
  try {
    Scanner myRead = new Scanner( MyObjec);
    while (myRead.hasNextLine()) {
       String data = myRead.next();
       name.add(data);
       data=myRead.next();
       location.add(data);
       int Digi=Integer.parseInt(myRead.next());
```





Software Design Specification

```
size.add(Digi);
       Digi=Integer.parseInt(myRead.next());
       price_per_hour.add(Digi);
       Digi=Integer.parseInt(myRead.next());
       cancellation_peroid.add(Digi);
       Boolean Stat=Boolean.parseBoolean(myRead.next());
       status.add(Stat);
        //int i=0;
       myRead.nextLine();
        available_hours.add(myRead.next());
        NumberOfPlayGround++;
        myRead.nextLine();
       //System.out.println(data);
      myRead.close();
  } catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
  }
public static boolean check(String a)
  if(available_hours.contains(a))
```





Software Design Specification

```
{
     return true;
  return false;
public void print()
  System.out.println("Playground_Name"+"\t\t\t"+"Location"+"\t\t"+"Status");
  for(int i=0;i < name.size();i++)
     System.out.print(name.get(i)+'' \mid t \mid t \mid t'');
     System.out.print(location.get(i)+''\t\t'');
     System.out.println(status.get(i));
public void addPlayGround()
  int num=0;
  try (Scanner Scan = new Scanner(System.in)) {
     System.out.println(''please Enter playground Name'');
     this.Name=Scan.next();
```





Software Design Specification

```
System.out.println("please Enter playground Location");
  this.Location=Scan.next();
  System.out.println(''please Enter playground Size'');
  this.Size=Scan.nextInt();
  System.out.println("please Enter PricePreHoure");
  this.PricePerHour=Scan.nextInt();
  System.out.println("please Enter CancellationPeriod");
  this.cancellationPeriod=Scan.nextInt();
  System.out.println("please Enter playground Status");
  this.Status=Scan.nextBoolean();
  System.out.println("Please Enter the Number of Period");
  num=Scan.nextInt();
  PlayNum.add(num);
 for(int i=0;i < num;i++)
  {
    System.out.println("please Enter the period "+" "+ i+1);
    String Data;
    Data=Scan.next();
    available_hours.add(Data);
  System.out.println(number_Of_PlayGround);
FileWriter My_Writer = null;
```







```
My_Writer = new FileWriter("PlayGround.txt",true);
            } catch (IOException e1) {
              // TODO Auto-generated catch block
              e1.printStackTrace();
           }
            try {
              Administrator Admin=new Administrator();
              if(Admin.approvePlayground(Name, Location, Size, PricePerHour, cancellationPeriod,
Status, available_hours))
                this.Status=true;
                My_Writer.write(this.Name+" "+this.Location+" "+this.Size+" "+this.PricePerHour+"
"+this.cancellationPeriod+" "+this.Status+"\n");
                for(int i=0;i < num;i++)
                   My_Writer.write(available_hours.get(i)+"'");
                }
                My_Writer.write(''\n'');
                number_Of_PlayGround++;
              }
              else
```





```
System.out.println("Admin Refused This approvement");
    System.out.println("you should Enter the Correct info");
  }
  /*
  for(int i=0;i< num;i++)
    My_Writer.write(available_hours[NumberOfPlayGround][i]+''');
  }
  My\_Writer.write(''\n'');
} catch (IOException e) {
  // TODO Auto-generated catch block
  e.printStackTrace();
}
try {
  My_Writer.close();
} catch (IOException e) {
  // TODO Auto-generated catch block
  e.printStackTrace();
NumberOfPlayGround++;
```







```
}
______
class playground_Owner :-
      import java.io.IOException;
      import java.util.Scanner;
      public class PlayGround_Owner extends User{
        static public Administrator administrator = new Administrator();
        public PlayGround_Owner()
        public void Register(){
          Scanner Scan=new Scanner(System.in);
          System.out.println("Please Enter your nick name");
          String Name;
          Name=Scan.next();
          System.out.println("Please Enter Your Id");
          int Id=Scan.nextInt();
          System.out.println("Please Enter Your password");
          String Password=Scan.next();
          System.out.println("Please Enter Mail");
          String mail=Scan.next();
```





Software Design Specification

```
System.out.println(''please Enter Your location'');
          String Location=Scan.next();
          System.out.println("Please Enter your phone");
          String ph=Scan.next();
          Registration(Name,Id,Password,mail,Location,ph,1);
        public void login()
          Scanner Scan=new Scanner(System.in);
          System.out.println("Please Enter Mail");
          String mail=Scan.next();
          System.out.println("Please Enter Your password");
          String Password=Scan.next();
          login(mail,Password);
        }
______
class User:-
      import java.io.File;
      import java.io.FileNotFoundException;
      import java.io.FileWriter;
      import java.io.IOException;
      import java.util.ArrayList;
```





Software Design Specification

```
import java.util.Scanner;
public class User {
  public String Name;
  private int ID;
  private String Password;
  private String Email;
  private String Location;
  private String Phone;
  private String Role;
  private ArrayList<String> Names=new ArrayList<String>();
  private ArrayList<String> Emails=new ArrayList<String>();
  private ArrayList<String> Passwords=new ArrayList<String>();
  ArrayList<Integer> ids = new ArrayList<>();
  static int numberOfUsers=0;
  public User()
  // this method used to open the file
  public void open file() throws IOException
    File My_object=new File("DataBase2.txt");
     if(My_object.createNewFile())
```







```
{
    System.out.println("Created");
    System.out.println(My_object.getName());
  }
  else
    System.out.println("there are some problem");
public void Read_From_File()
  File MyObject=new File("DataBase.txt");
  try {
    Scanner myReader = new Scanner( MyObject);
    while (myReader.hasNextLine()) {
       String data = myReader.next();
      Names.add(data);
      int data1;
      data1=Integer.parseInt(myReader.next());
      ids.add(data1);
      data=myReader.next();
      Passwords.add(data);
```





Software Design Specification

```
data=myReader.next();
       Emails.add(data);
       data=myReader.nextLine();
       numberOfUsers++;
      myReader.close();
  } catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
public void print()
  for(int i=0;i<Names.size();i++)
  {
    System.out.println(Names.get(i));
protected void login(String Email,String Password)
  Read_From_File();
  if(Emails.contains(Email))
```







```
{
  int index=Emails.indexOf(Email);
  if(Passwords.get(index).equals(Password))
  {
    System.out.print("Welcome to you in GO_FO System");
  }
  else
    Scanner Scan=new Scanner(System.in);
    System.out.print("invalid authentication");
    int For_Pass=0;
    System.out.println("if you forget the password Enter 1");
    For_Pass=Scan.nextInt();
    if(For\_Pass==1)
       System.out.println(''Please Enter Your Id'');
       int Id=Scan.nextInt();
       if(Id==ids.get(index))
         System.out.println("good job");
         System.out.println("Your Mail is: "+Email);
         System.out.println("Your Passords is: "+Passwords.get(index));
         System.out.println("Please Enter 1 if you want to change the password");
```





```
int change=Scan.nextInt();
                     if(change==1)
                        System.out.println("Please Enter your New Passwords");
                        String New_Password=Scan.next();
                        Passwords.add(index, New_Password);
                        System.out.println(''good your Password is chagned'');
            else
               System.out.println("this mail is not exist");
               System.out.println("You should to Register First");
          protected void Registration(String Name,int Id,String Password,String mail,String loac,String
phone, int num)
```





Software Design Specification

```
try {
  FileWriter My_Writer=new FileWriter(''DataBase.txt'',true);
  // Regular exp phone
  // that check that the phone number must have zero at the First
  // and contain 10 numbers from 0 to 9
  String regex1="^[0]+[0-9]{10}";
  // this is Regular Exp Mail
  // that check that the mail should have character from a(A) to z(Z) and number from 0 to 9
  // and . and - and must contain @
  String regex="^[A-Za-z0-9+_.-]+@[A-Za-z0-9.-]+$";
  // and if the both condirion is corrected then store user_info in DataBase_file
  if(phone.matches(regex1) && mail.matches(regex) && !Emails.contains(mail))
  {
    this.Name=Name;
    this.ID=Id;
    this.Password=Password;
    this.Location=loac;
    this.Phone=phone;
    this.Email=mail;
    // num this num if the num=0
    // the Role is 'Player'
```

if(num==0)







```
{
                     this.Role="Player";
                  // else the num=1
                  //the Role is 'PlayGround owner'
                   else
                     this.Role="Owner";
                   My_Writer.write(Name+" "+Id+" "+Password+" "+mail+" "+loac+" "+phone+"
^{\prime\prime}+Role+^{\prime\prime}^{\prime\prime}+^{\prime\prime}\langle n^{\prime\prime}\rangle;
                   My_Writer.close();
                  // store all names into Array_List
                   Names.add(Name);
                  // store all Mails into Array_List(Emails)
                   Emails.add(mail);
                  // store all Passwords into Array_List(Passwords)
                   Passwords.add(Password);
                   ids.add(Id);
                  // i think this this is trivial Variable
                  numberOfUsers++;
                  // Profile is Created Profile data Saved in DataBase File
                   System.out.println("Inserted Successfully and Created Profile");
                }
                else
```







```
{
       System.out.println("Invalid in Mail oR Phone number");
       System.out.println("Or this is already exits");
       My_Writer.close();
       System.out.println("Please Register again");
  catch (IOException e) {
     e.printStackTrace();
public void Print() throws IOException {
  for(int i=0;i<numberOfUsers;i++) {</pre>
     System.out.println(Emails.get(i).toString());
```





Software Design Specification

Links:

GitHub link:

https://github.com/TawfikYasser/CS251FinalProject

Google Drive Code Link:

https://drive.google.com/file/d/1IE5JFexhJ0941O2R434UUBo37-lL vJJ/view?usp=sharing

Google Drive Javadoc. Link:

https://drive.google.com/file/d/1LVHZk-Ymc2wBkVlctzJDPojPu4ii Nhq/view?usp=sharing

Google Drive Video Link:

https://drive.google.com/file/d/13fgm8Q6053ijkdqCYRR5zcudwCCh6nfx/view?usp=sharing

Additional:

Google Drive UI Video Link:

https://drive.google.com/file/d/1h2PkcacsTVuyvW2uhKT2s6s2yqobNK4X/view?usp=sharing

Thanks.

PS-132