Gebze Technical University
Computer Engineering

CSE 222 - 2018 Spring

HOMEWORK 1 REPORT

EMRE ÖZGÜN
161044103

Course Assistant:FATMA NUR ESİRCİ

1 INTRODUCTION

1.1 Problem Definition

a. Project Title:

Hotel Management System

b. Project Definiton:

That system is a hotel management system keeps users records one by one as Recepsionist and Guest Info, all booking and check available rooms etc. The system has different categories for guest and recepsionist. Guest can booking and cancel booking.Recepsionist can booking,cancel booking and control all check-In and check-Out.Hotel System hold all informations in privacy.

c. Project Goal

The system aims check all informations about guest and make it easy to resarvation for users.Users dont need to go to the hotel or call to make reservation or cancel bookings.
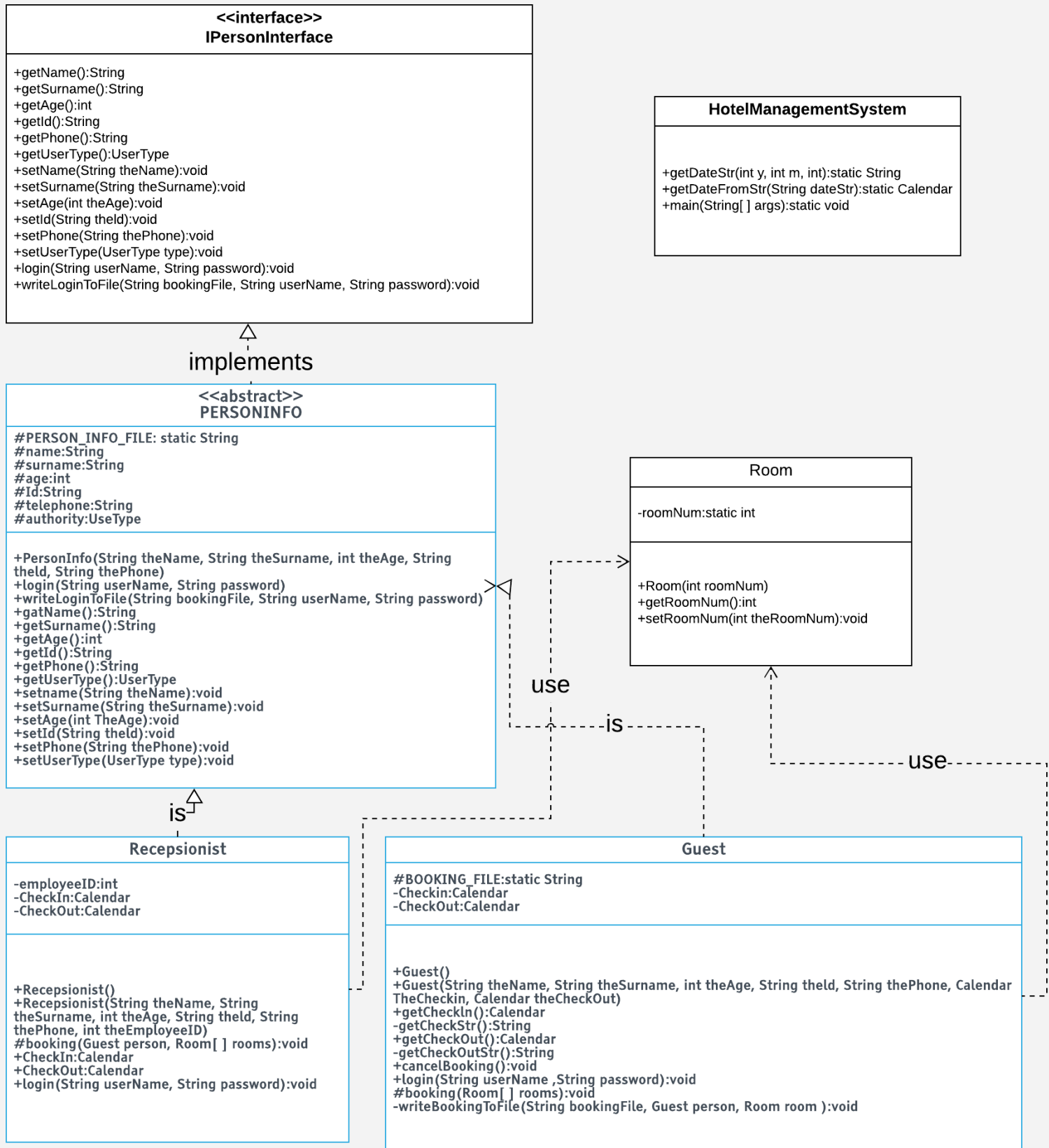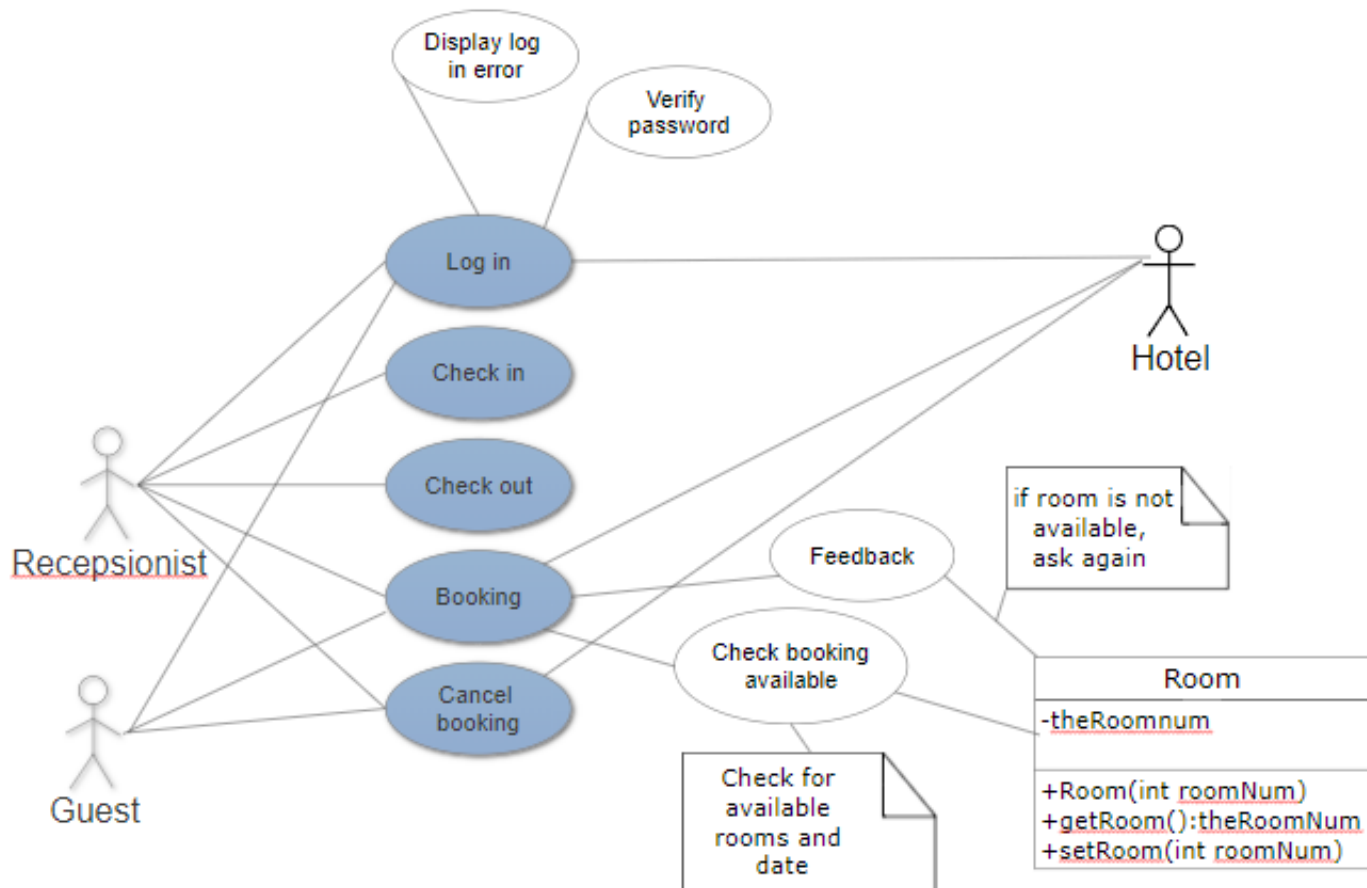
1.2 System Requirements

Functional Requirements

- Includes an basic operations and options for all users.
- If guest have any problems,can be solved by himself or with recepsinist with easily. System have basic menu and can satisfy all request.
- Guests will be able to easily make booking or cancel,if there is a suitable room and available dates.
- Guests and Recepsionist login automatic.There are two different menu for them.
- Hotel system will control all logins.
- If Hotel does not have the available room on the requested date or all rooms are full,System will ask again to resarvation for different dates.
-The receptionist can check-in and check-out differently as the guest

2 METHOD

2.1 Class Diagrams

<<interface>>
IPersonInterface

+getName():String
+getSurname():String
+getAge():int
+getId():String
+getPhone():String
+getUserType():UserType
+setName(String theName):void
+setSurname(String theSurname):void
+setAge(int theAge):void
+setId(String theId):void
+setPhone(String thePhone):void
+setUserType(UserType type):void
+login(String userName, String password):void
+writeLoginToFile(String bookingFile, String userName, String password):void

HotelManagementSystem

+getDateStr(int y, int m, int):static String
+getDateFromStr(String dateStr):static Calendar
+main(String[ ] args):static void

implements

<>
PERSONINFO

#PERSON_INFO_FILE: static String
#name:String
#surname:String
#age:int
#Id:String
#telephone:String
#authority:UseType

+PersonInfo(String theName, String theSurname, int theAge, String theId, String thePhone)
+login(String userName, String password)
+writeLoginToFile(String bookingFile, String userName, String password)
+gatName():String
+getSurname():String
+getAge():int
+getId():String
+getPhone():String
+getUserType():UserType
+setname(String theName):void
+setSurname(String theSurname):void
+setAge(int TheAge):void
+setId(String theId):void
+setPhone(String thePhone):void
+setUserType(UserType type):void

Room

-roomNum:static int

+Room(int roomNum)
+getRoomNum():int
+setRoomNum(int theRoomNum):void

use

is

use

is

Recepsionist

-employeeID:int
-CheckIn:Calendar
-CheckOut:Calendar

+Recepsionist()
+Recepsionist(String theName, String theSurname, int theAge, String theId, String thePhone, int theEmployeeID)
#booking(Guest person, Room[ ] rooms):void
+CheckIn:Calendar
+CheckOut:Calendar
+login(String userName, String password):void

Guest

#BOOKING_FILE:static String
-Checkin:Calendar
-CheckOut:Calendar

+Guest()
+Guest(String theName, String theSurname, int theAge, String theId, String thePhone, Calendar TheCheckin, Calendar theCheckOut)
+getCheckln():Calendar
-getCheckStr():String
+getCheckOut():Calendar
-getCheckOutStr():String
+cancelBooking():void
+login(String userName ,String password):void
#booking(Room[ ] rooms):void
-writeBookingToFile(String bookingFile, Guest person, Room room):void

2.2 Use Case Diagrams

2.3 Other Diagrams (optional)

2.4 Problem Solution Approach

I considered the problem on two basic components.Firstly I had to separate the users as receiversionists and guests.I created two classes named as Recepsionist and Guest.And then I created a super class called Person Info..Because lots of features are same recepsionist and guest.I created the interface where all the functions are located for personal info, I created a room class with all rooms and numbers.And finally I created the main window class where all the menus are located and the information is asked and the registration is taken.

3 RESULT

3.1 Test Cases

#TEST CASE 1(Guest booking)

User: G (Guest)

UserName: emreozgunn

Password: 1123581321

Option: 1)Booking

Name: Emre

Surname: Ozgun

Age: 21

Id: 52017869812

Phone Number: 053851347862

Check-In Day: 10

Check-In Month: 12

Check-In Year: 2017

Check-Out Day: 12

Check-Out Month: 12

Check-Out Year: 2017

#TEST CASE 2 (Recepsionist booking)

User: R (Recepsionist)

UserName: eneskaraahan

Password: 11235

Option: 1)Booking

Name: Enes

Surname: Karahn

Age: 21

Id: 52017869872

Phone Number: 053551347262

Check-In Day: 8

Check-In Month: 9

Check-In Year: 2017

Check-Out Day: 13

Check-Out Month: 9

Check-Out Year: 2017

#TEST CASE 3 (Already booked date and rooms are full)

User: G (Guest)

UserName: falıturkk

Password: 1593572846

Option: 1)Booking

Name: Furkan

Surname: Turk

Age: 21

Id: 52017869813

Phone Number: 053851227862

Check-In Day: 11

Check-In Month: 12

Check-In Year: 2017

Check-Out Day: 12

Check-Out Month: 12

Check-Out Year: 2017

#TEST CASE 4(Cancel booking)

User: G (Guest)

UserName: emreozgunn

Password: 1123581321

Option: 2) Cancel Booking

ID : 52017869812

#TEST CASE 5(Exit)

User: R (Recepsionist)

UserName: eneskaraahan

Password: 11235

Option: 5)Exit

3.2 Running Results

UNIT TEST SCREENSHOOTS

#TEST CASE 1 (GUEST CLASS UNIT TESTS)

#TEST CASE 2 (RECEPSIONIST CLASS UNIT TESTS)

#TEST CASE 3 (ROOM CLASS UNIT TESTS)
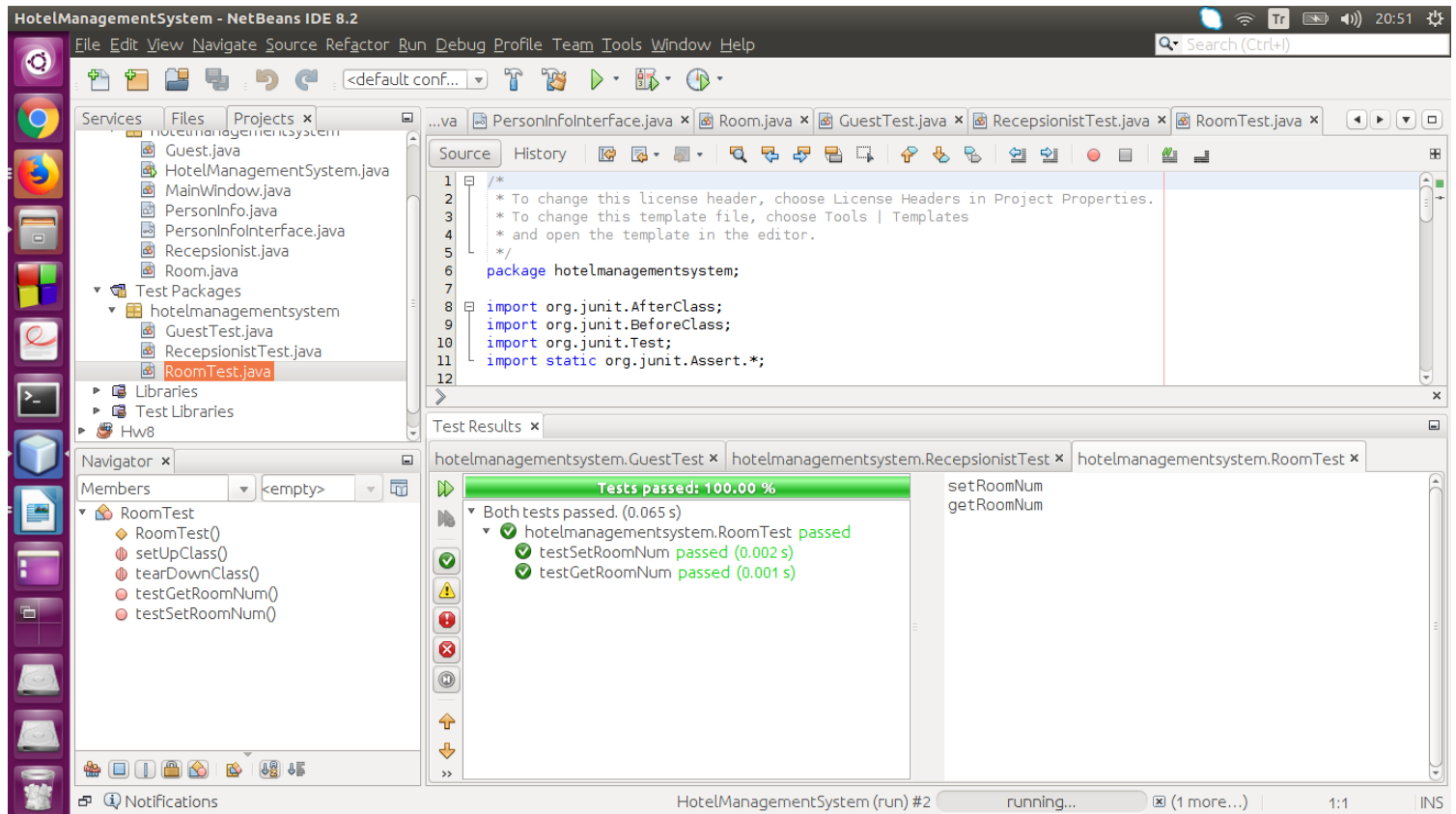
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