OBJECT ORIENTED PROGRAMMING

SEMESTER PROJECT HOTEL MANAGEMENT SYSTEM

(GRAPHICAL USER INTERFACE & OBJECT I/O)

GROUP MEMBERS

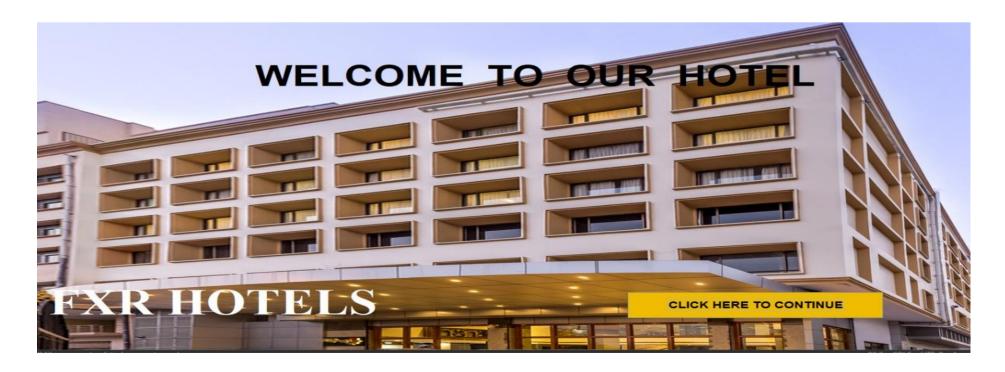
♣ FAHAD ISHAQ FA20-BCS-017 BCS-3A-A **♣** MINAHIL FATIMA FA20-BCS-037 BCS-3A-A

SUBMITTED TO

Mam Zobia Rehman

DATED

January 8, 2022



UML CLASS DIAGRAM <<interface>> Serializable **Booking** Customer Room # customer: Customer -name: String -roomno:int # roomarray : ArrayList<Room> -cnic: String ~noofdaysofstay:int - checkindate : String -mobileno: String ~roomfare:double - totalpriceofStay : double -email: String ~hastv:boolean staybeforecheck : boolean -address: String ~haswifi:boolean -registeredstatus: boolean ~ foodarray: ArrayList<Food> + Room() ~ laundryarray: ArrayList<Laundry> checkoutstatus : boolean + Room(w:int,u:double,y:boolean,z:boolean) + Booking() + Customer() + setroomno(x:int):void + Booking(x : Customer) + Customer(fn:String,In:String,c:String,pno:String,e:String) + setnoofdaysofstay(x:int):void + HotelCustomer(x:HotelCustomer) + Booking(b: Booking) + setroomfare(x:int):void + setcustomer(x : Customer): void + getName():String + sethastv(x:boolean):void + setregisteredstatus(x : boolean): void + getCnic():String + sethaswifi(x:boolean):void + setcheckoutstatus(x : boolean): void + getMobileno():String + getRoomno():int + getregisteredstatus(): boolean + getEmail():String + getroomfare():double + setcheckoutstatus(): boolean + getAddress(): String + toString():String + searchroom(x:int):int + setName(a:String):void + setnumberofrooms():void + removeroom(x:int): void + setCnic(a:String):void + addBooking(s : Booking): void + setMobileno(a:String):void + readFile(): ArrayList<Booking> + setEmail(a:String):void + searchBooking(x : String , y: int): Booking + setAddress(a:String): void **DeluxeDoubleRoom** + deleteBooking(x : String , y: int): void + updateBooking(book : Booking): void + toString():String # noOfrooms: int + calculatetotalfoodbill():double + updateroomBooking(book : Booking): void + calculatetotallaundarybill():double + displayalldata(): String + DeluxeDoubleRoom() + searchroomno(x : int):boolean + DeluxeDoubleRoomDetails():String + calculatetotalpriceofstay(): double + setnumberofrooms():void + totalstaybill(): double + availability2():String Laundary -sprice:double DeluxeSingleRoom -pnprice:double **Food** -coatprice:double # noOfrooms: int -otherprice:double -cost:double -noOfShirt:int + DeluxeSingleRoom() -noOfPant:int + DeluxeSingleRoomDetails():String + getCost():double -noOfcoat:int + setnumberofrooms():void + setCost(cost:double):void -noOfotherprice:int + availability1():String +Food() -price:double + Food(x:double) +Laundary() + toString():String LuxurySingleRoom +Laundary(s1:int,s2:int,s3:int,s4:int) + calculatePrice():double # noOfrooms: int + setshirtprice(x:double):void **Breakfast** Dinner +setpantprice(x:double):void + LuxurySingleRoom() + setcoatprice(x:double):void -choice:int -choice:int + DeluxeSingleRoomDetails():String + toString():String -Quantity:int -Quantity:int + setnumberofrooms():void + Breakfast() + Dinner() + availability3():String + Breakfast(x:double,y:int,z:int) +Dinner(x:double,y:int,z:int) Runner + Breakfast(x: Breakfast) + Dinner(x: Dinner) LuxuryDoubleRoom + Breakfastoptions():String + Dinneroptions():String + toString():String + toString():String + main(args:String[]):void # noOfrooms: int + LuxuryDoubleRoom() **ObjectOutputStream** + LuxuryDoubleRoomDetails():String + setnumberofrooms():void **Otherfood** Lunch + getnor:int -choice:int -choice:int + availability4():String -Quantity:int -Quantity:int + Lunch() + Otherfood() + Lunch(x:double,y:int,z:int) + Otherfood(x:double,y:int,z:int) + Lunch(x: Lunch) + Otherfood(x: Otherfood) MyObjectOutputStream + Lunchoptions():String + Otherfoodoptions():String + toString():String + toString():String + MyObjectOutputStream() + MyObjectOutputStream(o: OutputStream)

+ writeStreamHeader(): void