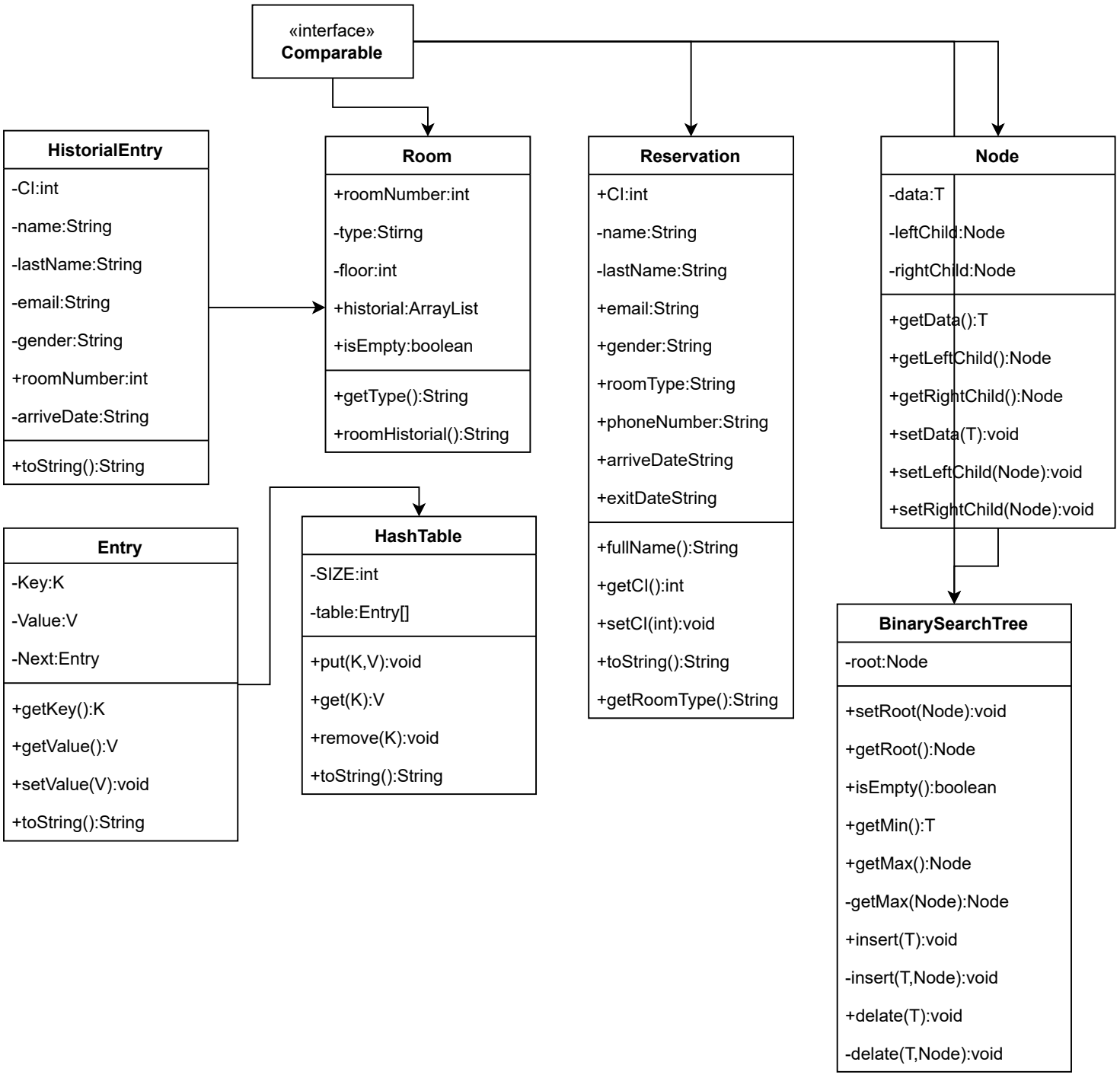
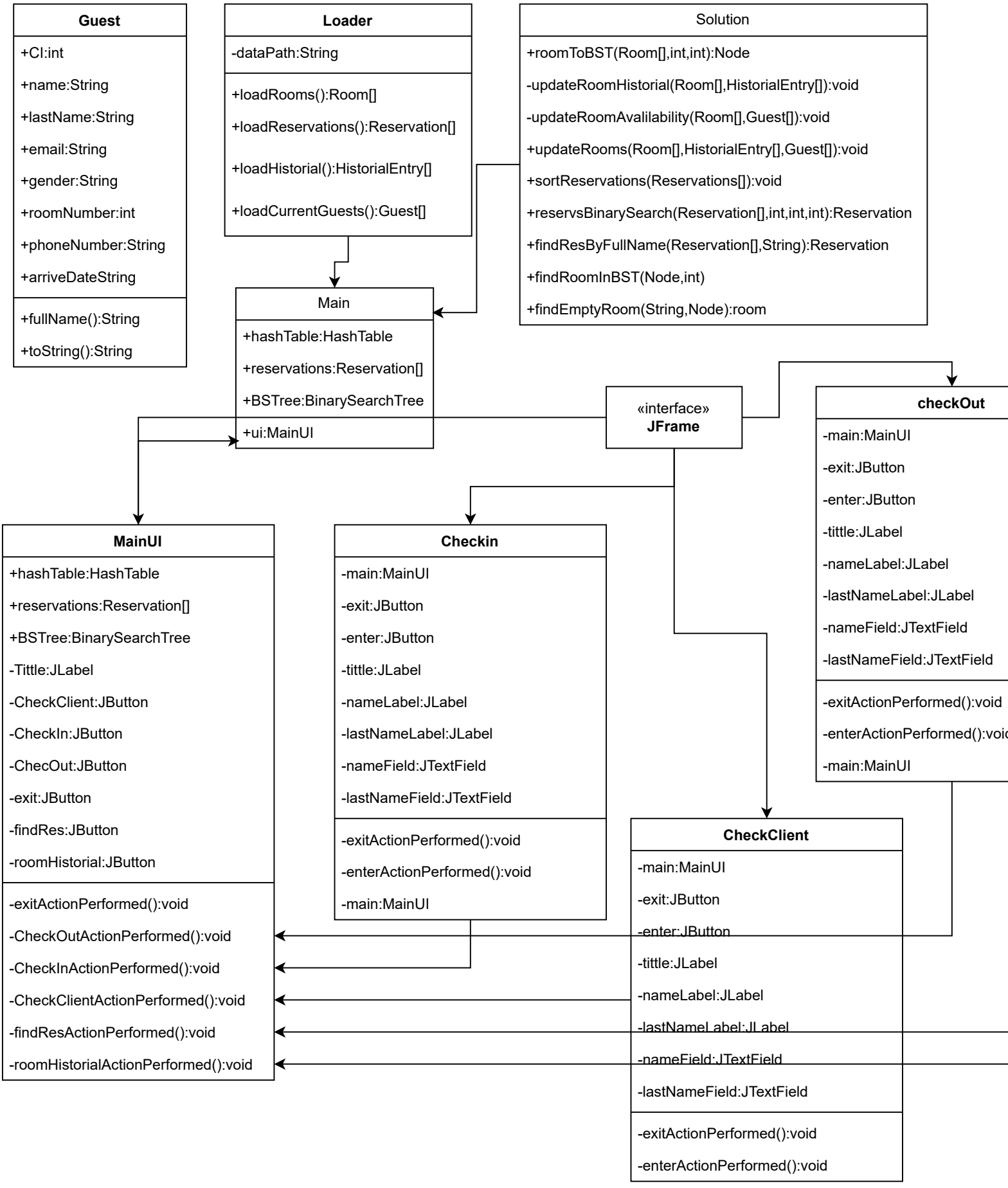
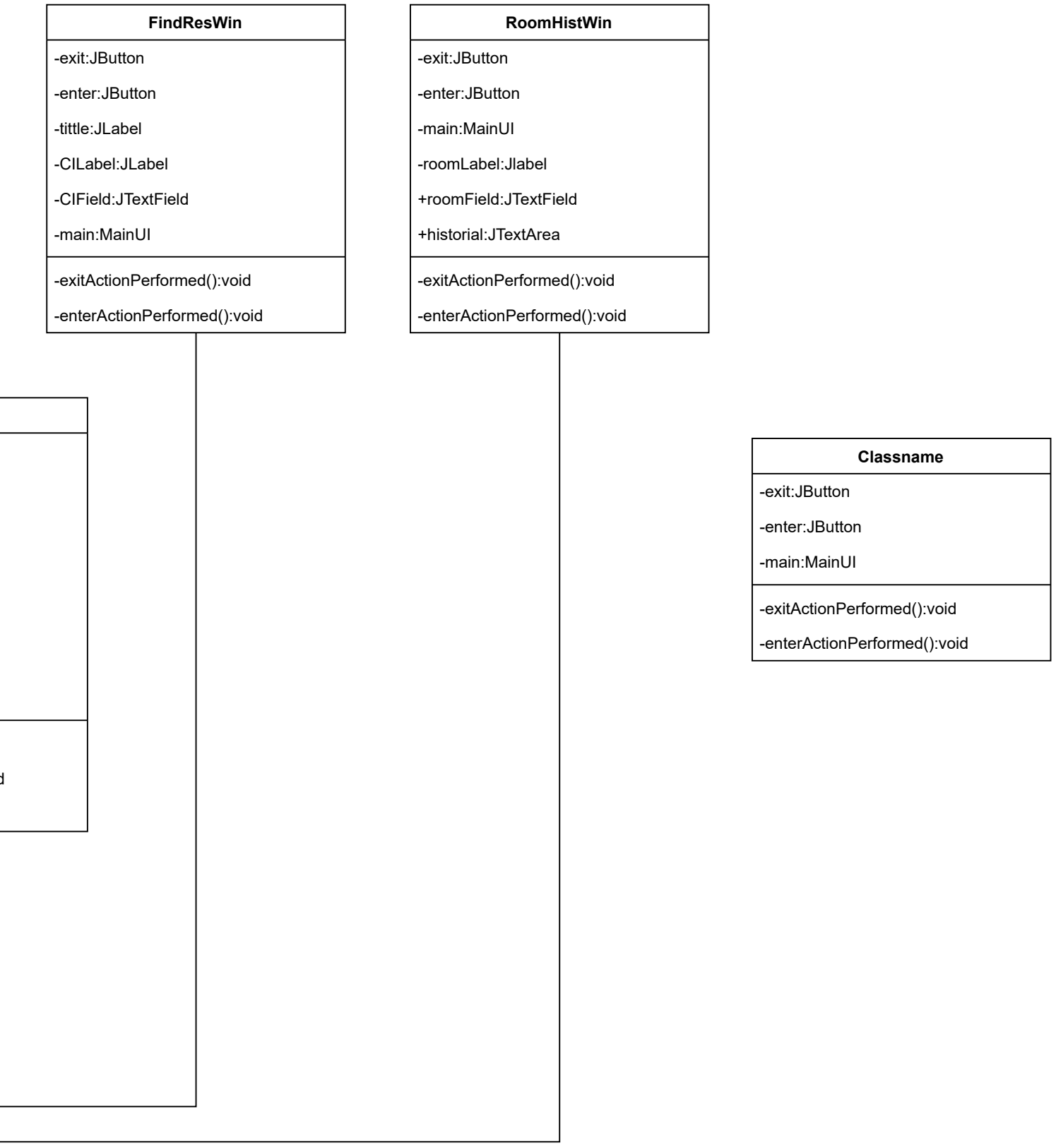

«interface»
Comparable
HistorialEntry
-CI:int
-name:String
-lastName:String
-email:String
-gender:String
+roomNumber:int
-arriveDate:String
+toString():String
Room
+roomNumber:int
-type:Stirng
-floor:int
+historial:ArrayList
+isEmpty:boolean
+getType():String
+roomHistorial():String
Reservation
+CI:int
-name:String
-lastName:String
+email:String
+gender:String
+roomType:String
+phoneNumber:String
+arriveDateString
+exitDateString
+fullName():String
+getCI():int
+setCI(int):void
+toString():String
+getRoomType():String
Node
-data:T
-leftChild:Node
-rightChild:Node
+getData():T
+getLeftChild():Node
+getRightChild():Node
+setData(T):void
+setLeftChild(Node):void
+setRightChild(Node):void
Entry
-Key:K
-Value:V
-Next:Entry
+getKey():K
+getValue():V
+setValue(V):void
+toString():String
HashTable
-SIZE:int
-table:Entry[]
+put(K,V):void
+get(K):V
+remove(K):void
+toString():String
BinarySearchTree
-root:Node
+setRoot(Node):void
+getRoot():Node
+isEmpty():boolean
+getMin():T
+getMax():Node
-getMax(Node):Node
+insert(T):void
-insert(T,Node):void
+delate(T):void
-delate(T,Node):void


Guest
+CI:int
+name:String
+lastName:String
+email:String
+gender:String
+roomNumber:int
+phoneNumber:String
+arriveDateString
+fullName():String
+toString():String
Loader
-dataPath:String
+loadRooms():Room[]
+loadReservations():Reservation[]
+loadHistorial():HistorialEntry[]
+loadCurrentGuests():Guest[]
Solution
+roomToBST(Room[],int,int):Node
-updateRoomHistorial(Room[],HistorialEntry[]):void
-updateRoomAvalilability(Room[],Guest[]):void
+updateRooms(Room[],HistorialEntry[],Guest[]):void
+sortReservations(Reservations[]):void
+reservsBinarySearch(Reservation[],int,int,int):Reservation
+findResByFullName(Reservation[],String):Reservation
+findRoomInBST(Node,int)
+findEmptyRoom(String,Node):room
Main
+hashTable:HashTable
+reservations:Reservation[]
+BSTree:BinarySearchTree
+ui:MainUI
«interface»
JFrame
checkOut
-main:MainUI
-exit:JButton
-enter:JButton
-tittle:JLabel
-nameLabel:JLabel
-lastNameLabel:JLabel
-nameField:JTextField
-lastNameField:JTextField
-exitActionPerformed():void
-enterActionPerformed():void
-main:MainUI
MainUI
+hashTable:HashTable
+reservations:Reservation[]
+BSTree:BinarySearchTree
-Tittle:JLabel
-CheckClient:JButton
-CheckIn:JButton
-ChecOut:JButton
-exit:JButton
-findRes:JButton
-roomHistorial:JButton
-exitActionPerformed():void
-CheckOutActionPerformed():void
-CheckInActionPerformed():void
-CheckClientActionPerformed():void
-findResActionPerformed():void
-roomHistorialActionPerformed():void
Checkin
-main:MainUI
-exit:JButton
-enter:JButton
-tittle:JLabel
-nameLabel:JLabel
-lastNameLabel:JLabel
-nameField:JTextField
-lastNameField:JTextField
-exitActionPerformed():void
-enterActionPerformed():void
-main:MainUI
CheckClient
-main:MainUI
-exit:JButton
-enter:JButton
-tittle:JLabel
-nameLabel:JLabel
-lastNameLabel:JLabel
-nameField:JTextField
-lastNameField:JTextField
-exitActionPerformed():void
-enterActionPerformed():void


FindResWin
-exit:JButton
-enter:JButton
-tittle:JLabel
-CILabel:JLabel
-CIField:JTextField
-main:MainUI
-exitActionPerformed():void
-enterActionPerformed():void
RoomHistWin
-exit:JButton
-enter:JButton
-main:MainUI
-roomLabel:Jlabel
+roomField:JTextField
+historial:JTextArea
-exitActionPerformed():void
-enterActionPerformed():void
Classname
-exit:JButton
-enter:JButton
-main:MainUI
-exitActionPerformed():void
-enterActionPerformed():void