Hotel Management System

Documentation:

1. Introduction:

The hotel management system project is a software application designed to streamline and automate the management processes of a hotel.

2. System Design:

- User Interface (UI):
  - Login page: Allows hotel staff to login with their credentials to access the system.
  - Main dashboard: Provides an overview of hotel operations, including room availability, guest check-in/check-out status, and other relevant information.
  - Room reservation page: Allows hotel staff to reserve rooms for guests, specify room type, check-in/check-out dates, and guest details.

- Functionality:
  - Room management: Allows hotel staff to manage room inventory, including adding new rooms, updating room availability status, and assigning rooms to guests.
  - Reservation management: Allows hotel staff to create, modify, and cancel room
  - reservations for guests, and view reservation details.
  - Check-in/Check-out management: Allows hotel staff to manage guest check-in and check-out processes, including updating room availability status, capturing guest information, and generating bills.

3. Implementation:

Language: Java
GUI Library: Swing
Property Persistence: Properties
UML Design: Figma
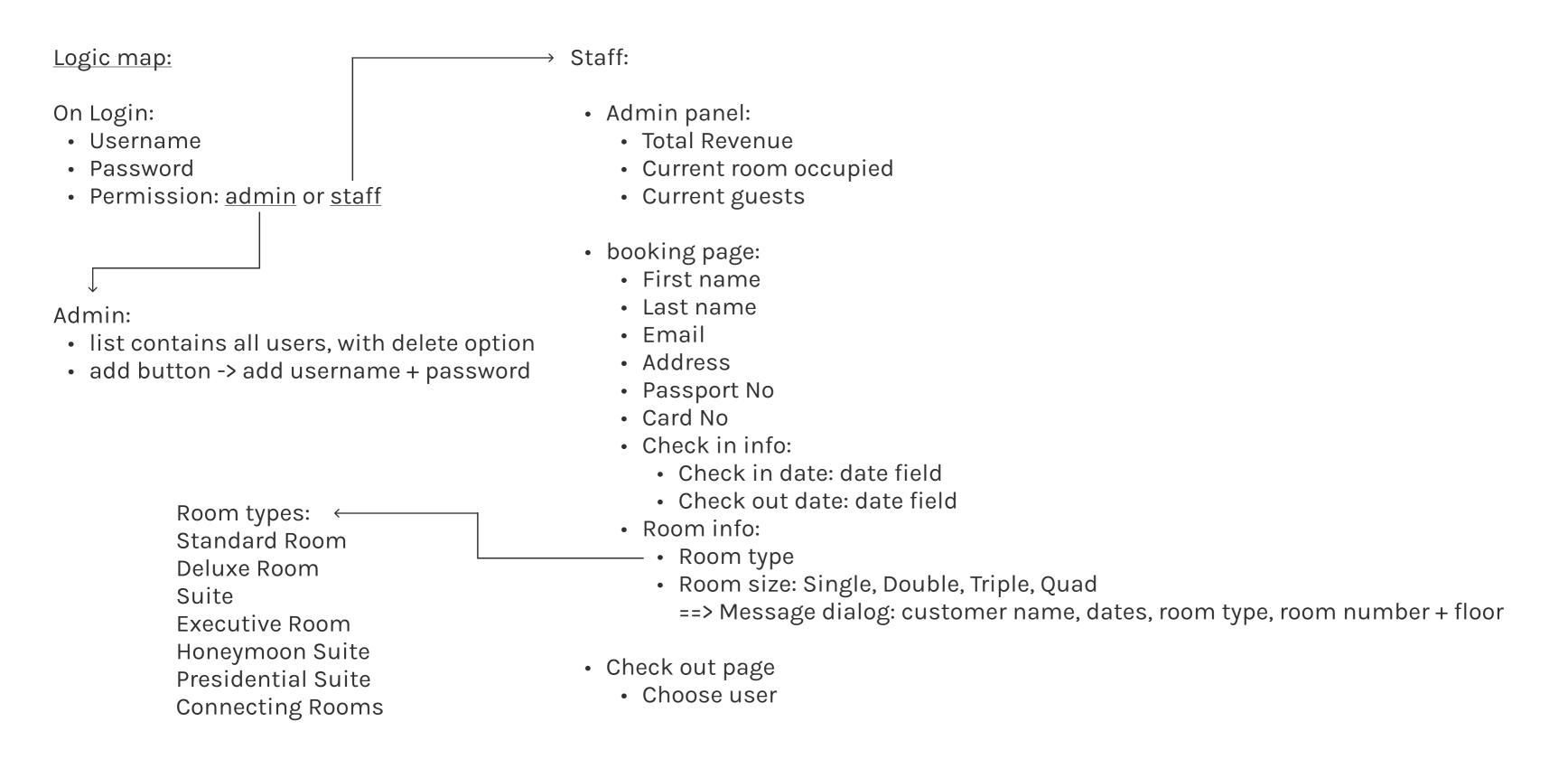Development Environment: Eclipse and IntelliJ IDEA
Version Control: Git

4. Contributors:

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Hotel Management System

Logic map:

On Login:
- Username
- Password
- Permission: admin or staff

Admin:
- list contains all users, with delete option
- add button -> add username + password

Room types:
Standard Room
Deluxe Room
Suite
Executive Room
Honeymoon Suite
Presidential Suite
Connecting Rooms

Staff:

- Admin panel:
  - Total Revenue
  - Current room occupied
  - Current guests

- booking page:
  - First name
  - Last name
  - Email
  - Address
  - Passport No
  - Card No
  - Check in info:
    - Check in date: date field
    - Check out date: date field
  - Room info:
    - Room type
    - Room size: Single, Double, Triple, Quad
      ==> Message dialog: customer name, dates, room type, room number + floor

- Check out page
  - Choose user

Hotel Management System

Manager

+ username : String
- password : String
+ isStaff : boolean

Password getter and setter()

Room

+ RoomType : String
+ RoomSize : String
+ RoomNumber : Integer
+ RoomFloor : Integer

Admin

+ addStaff(*username, password, isStaff*)
+ removeStaff(*Staff*)

Staff

+ addGuest(*Guest*)

Guest

+ GuestFName : String
+ GuestLName : String
+ GuestEmail : String
+ GuestAdress : String
+ GuestPassport : Integer
+ GuestCard : Integer
+ GuestIn : Date
+ GuestOut : Date

Hotel Management System

GUI template:

Login

Username: [   ]
Password: [   ]
Role: [Admin/Staff ▾]

Dashboard

Current guests: 17
Current room occupied: 6
Total Revenue: $ 5,356

[Book a room] [Check out]

Guests list

Guest 1 ✕
Guest 2 ✕
Guest 3 ✕

Staff list

Staff username 1 ✕
Staff username 2 ✕
Staff username 3 ✕

[Add]

Booking a room

First name: [   ]
Last name: [   ]
Email: [   ]
Address: [   ]
Passport: [   ]
Card: [   ]
Check in date [   ]
Room type [▾]
Room size [▾]

[Submit]

Add Staff

Username: [   ]
Password: [   ]

[Add]

Bill

Your total bill is: 60$

Thank you for
choosing our hotel!