Upskill Java

Capstone Project

Hotel Management System

Introduction

It is a staff management system, which will allow the current shift(user) to display information about availability, rates and reservations. Also it will let the user insert new reservations, automatically make invoices, registration cards and confirmations.It must have a cash book. It will also let the manager(super user) to supervise the user's activities, make reports, manage users(add or remove) and etc.

Who is this project for?

This project is for small touristic hotels that have difficulties with hotel management, like using excel for managing reservations and constantly getting problems because someone will delete the file by accident or change the formulas or etc.

What needs will it satisfy?

It will make managing reservations easier and faster, avoid overbooking , and automate some tasks they do by hand. It will make it easier for super user to supervise their actions.

Github: Lilyl03/HotelManagementSystem (github.com)

Tracking Service: View 1 · management (github.com)

Functional and Non-Functional Requirements

- **Functional Requirements:**
    1. Let the user login.
    2. Check room availability.
    3. Let the user change room availability.
    4. Make invoices, registration cards and confirmation.
    5. Must have a cash book and let the user fill it or fill it automatically.
    6. Let the superuser make a report.
    7. Notify user about new reservations
    8. Let super user manage users' quantity
    9. Keep shift count

- **Non-Functional Requirements:**
    1. Be available 24/7
    2. Update information 30 seconds

Use Cases

Title: Take Reservation

Primary actor: User

Scenario: User logs in. Inserts the dates. System checks for availability.Creates a reservation. System requires the user to insert the guest's fullname, choose the room type, insert the rate per night and save the reservation.The system closes that room for provided dates, makes a confirmation.

Title: Make an invoice

Primary actor: User

Scenario: User logs in. Creates an invoice. Fills in passport information(name, surname, passport number and chooses the reservation. System fills in required fields from user input and reservation details and returns a document for print.

Title: Fill Cash Book

Primary actor: User

Scenario: User logs in. Chooses reservation and marks it paid which will automatically be inserted in cash book and later she can mention in cash book was it cash or card. Also user can choose to manually insert the payment details.

Title: Guest Check-in

Primary actor: User

Scenario: User logs in. Find the guest in the list of reservations. Marks it checked in and it automatically makes a registration card. Shows the details of reservation and marks the reservation unpaid until the user marks it paid.

Title: Change User's quantity

Primary actor: Super User

Scenario: Super User logs in. Goes to manage users and either changes the quantity by reducing or increasing, or changes user's data fields. Also the super user has the right to mark the user either super or normal user.

Title: Create User

Primary actor: Super User

Scenario: Super User logs in. Goes to manage users and creates Users by filling it with necessary data like full name , phone number, email , address etc. The super user marks them as a super user or normal user.

Title: Manage User's activity

Primary actor: Super User

Scenario: Super User logs in. Goes to User Activities. System asks for dates and user's name. After which provides to the super user activities of certain user like taken reservation, cash book insertions.

Title: Make Report

Primary actor: Super User

Scenario: Super User logs in. System generates data from the cash book, reservation book and asks the Super user to enter data from her book to compare. After which it shows the differences regarding 3 data asking superuser to do changes manually.

Title: Filing expenses

Primary actor: User

Scenario: User logs in. Goes to Cash Book and shows under breakfast expenses, household goods expenses, etc.

Title: Salary distribution

Primary actor: Super User

Scenario: Super User logs in. Goes to Shift file. System shows which user was logged in and calculates every user's shift count. Which will also be included in report creation process

IDENTIFYING OBJECTS

- User
- ~~Dates~~
- ~~Availability~~
- Reservation
- ~~System~~
- Guest
- Room
- Confirmation
- Invoice
- Passport Information
- Cash Book
- Report
- Payment Details
- Manager(Super User)
- Reservation Table
- Registration Card
- Shift
- Activity

IDENTIFYING RELATIONSHIP

- User: Activity, Manager, Reservation, Cashbook
- Reservation: Guest, Reservation Table, Payment Details, Confirmation Registration Card, Room, Invoice, User
- Invoice: Reservation, Payment Detail, Guest
- Report: CashBook, Manager, Reservation Table
- Manager : Shift, Reservation Table, Activity, Report, User, CashBook
- CashBook : User, Manager, Reservation,Payment Details