Hotel Management System

This repository includes a hotel management system that was constructed with the help of a database, object-oriented programming (OOP) concepts, HTML, CSS, and Spring Boot.

Features

- Administrators can add, edit, and remove users with various roles, including staff, visitor, and administrator, using the user management feature.
- Room Management: Facilitates the addition of new rooms, the update of room information, and the designating of rooms as either occupied or available.
- Reservation System: Offers features such as date selection, room type selection, and guest count that let visitors book a room.
- Billing and Payments: computes bills according to accommodation rates and other services rendered, and facilitates payment by visitors.
- Reporting: Produces data on revenue, occupancy rates, reviews from visitors, and other pertinent indicators.
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Technologies Used

- **Spring Boot**: Provides the backend framework for developing and managing the application.
- **HTML and CSS**: Used for creating the user interface and styling the web pages.
- **Object-Oriented Programming (OOP)**: Utilized for designing modular and reusable code components.

- **Database**: Uses a database management system (DBMS) such as MySQL, PostgreSQL, or H2 for storing application data.

Setup Instructions

Clone the repository to your local machine.

bash

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```
git clone
https://github.com/your-username/hotel-management-system.git
```

Configure the database settings in the application properties file

(`application.properties` or `application.yml`).

properties

Copy code

```
spring.datasource.url=jdbc:mysql://localhost:3306/hotel_db
spring.datasource.username=db_username
spring.datasource.password=db_password
spring.jpa.hibernate.ddl-auto=update
```

Run the application using Maven or your preferred IDE.

arduino

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```
mvn spring-boot:run
```

Access the application in your web browser at `http://localhost:8080`.

Folder Structure

```
hotel-management-system/
|
├── src/
|   ├── main/
|   |   ├── java/
|   |   |   ├── com/
```

```
|   |   |   |   ├── example/
|   |   |   |   |   ├── controllers/        # Contains controllers for handling
HTTP requests
|   |   |   |   |   ├── models/              # Includes entity classes for database
mapping
|   |   |   |   |   ├── repositories/        # Repository interfaces for database
operations
|   |   |   |   |   ├── services/            # Business logic services
|   |   |   |   |   ├── HotelManagementSystemApplication.java  # Main application
class
|   |   |   ├── resources/
|   |   |   |   ├── static/                  # CSS, JavaScript, and image files
|   |   |   |   ├── templates/               # Thymeleaf HTML templates
|   |   |   |   ├── application.properties # Application configuration
|   ├── test/                               # Contains unit and integration tests
|
├── README.md                               # Project documentation
├── pom.xml                                 # Maven project configuration
└── .gitignore                              # Specifies files/folders to ignore in
Git
```

Contributors

- Your Name
- Contributor 1
- Contributor 2

Feel free to contribute to this project by forking the repository and creating pull requests with your enhancements or bug fixes.