

*Subject:* **INTRODUCTION TO SOFTWARE ENGINEERING**

***DETAILED DESIGN DOCUMENT***

**HOTEL MANAGEMENT SOFTWARE**

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HO CHI MINH CITY NATIONAL UNIVERSITY

**UNIVERSITY OF INFORMATION TECHNOLOGY**

**SOFTWARE ENGINEERING DEPARTMENT**

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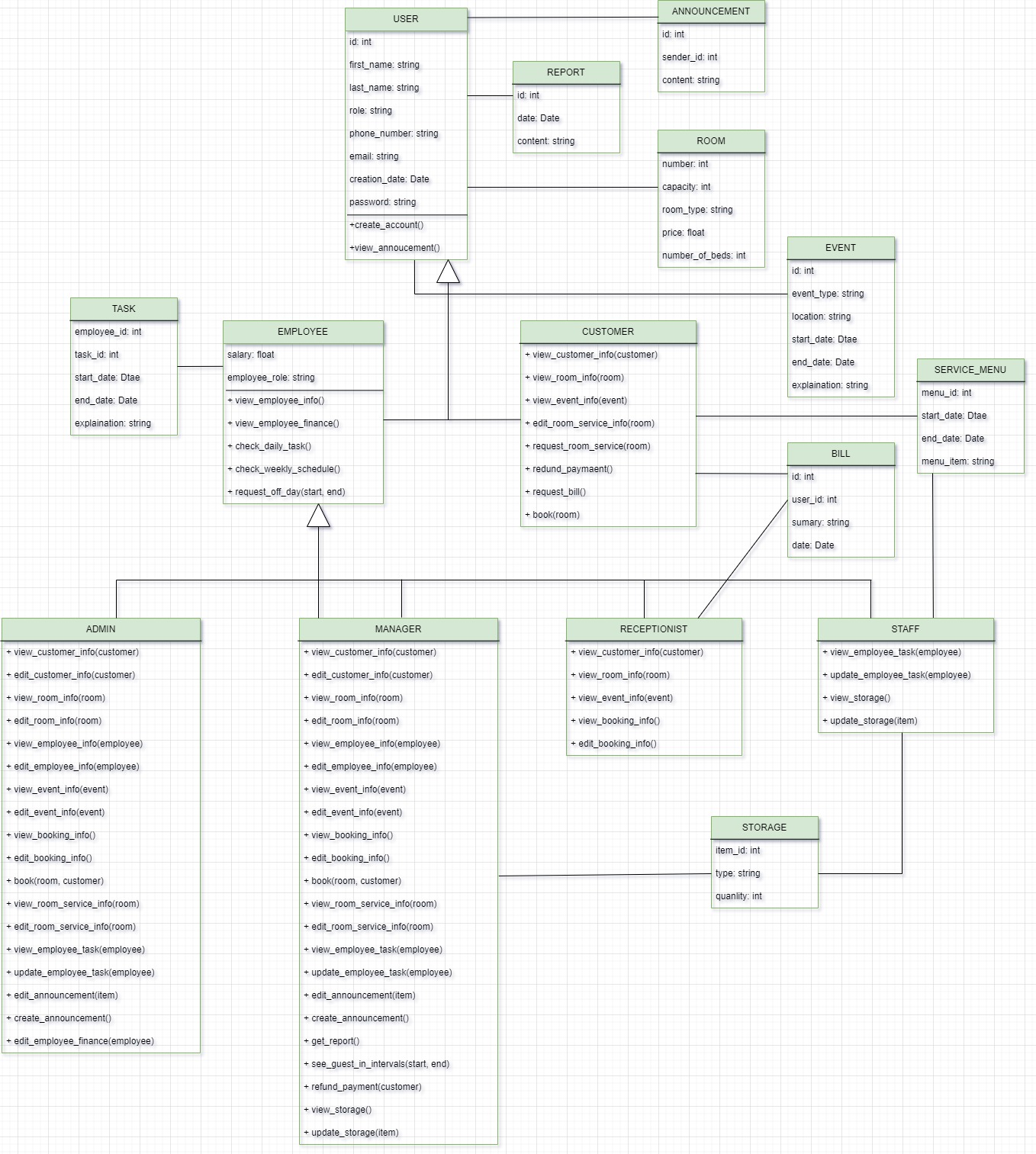
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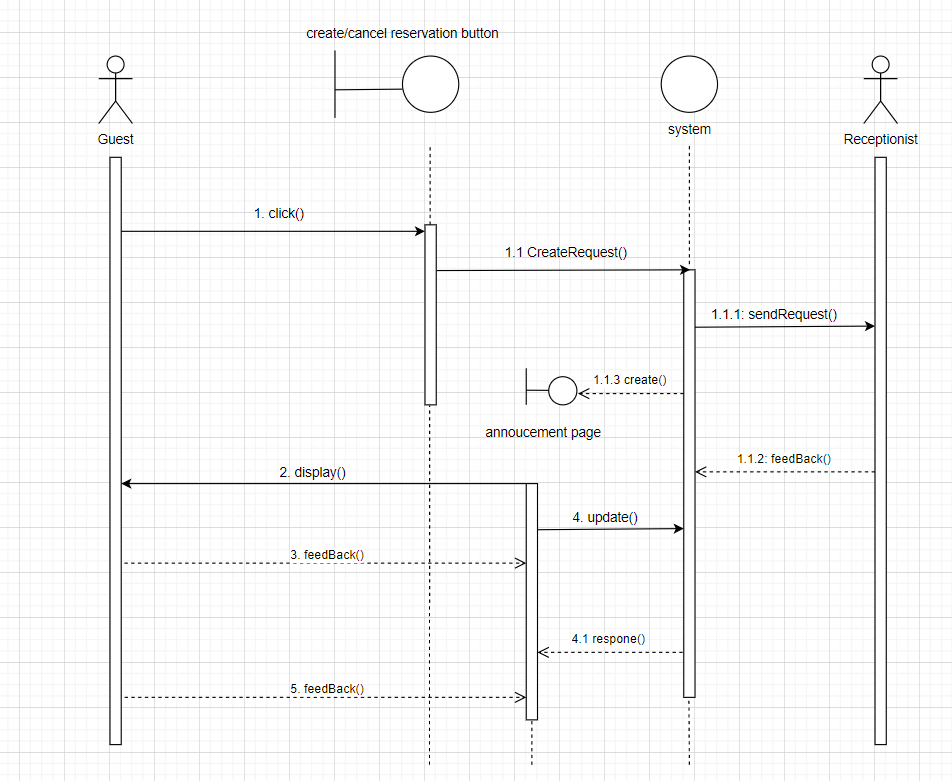
# **Hotel Management**

## **Class diagram**

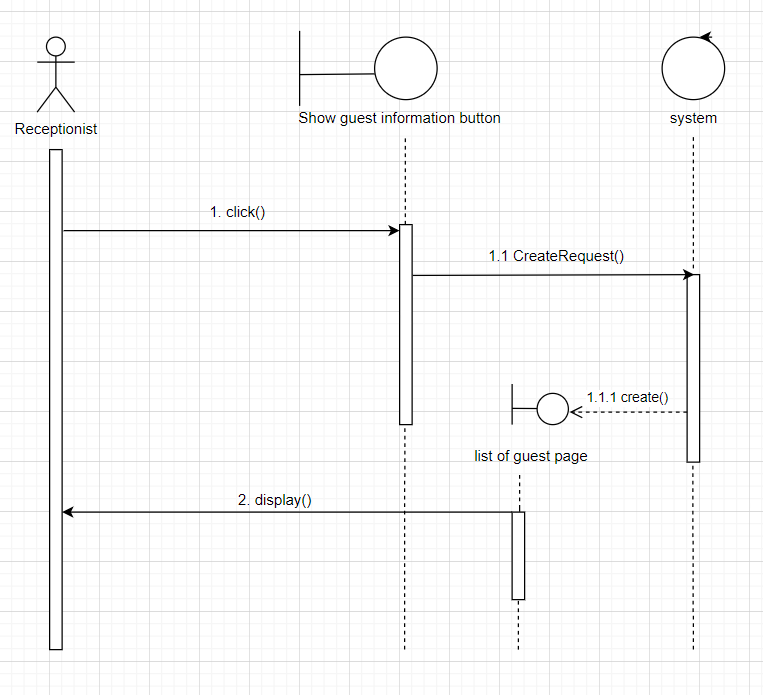


## **Sequence diagram**

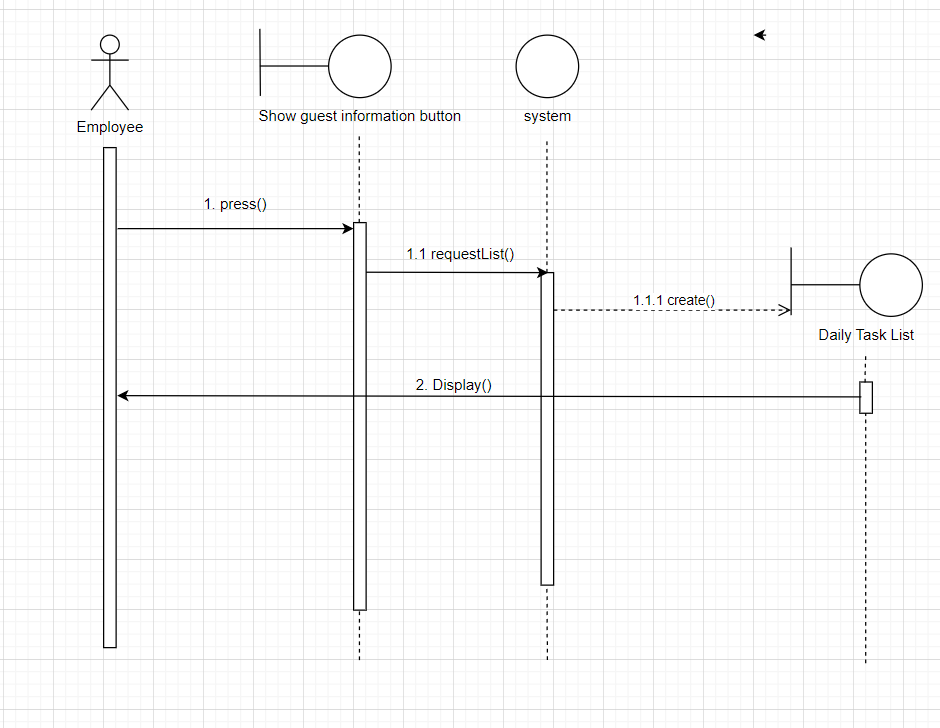
### 1.2.1 Booking room



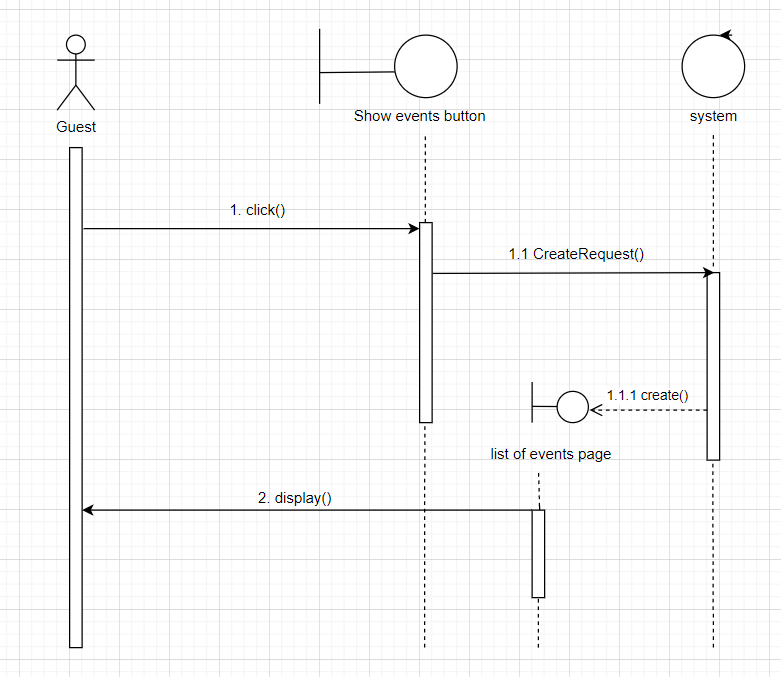
### 1.2.2 See guest information



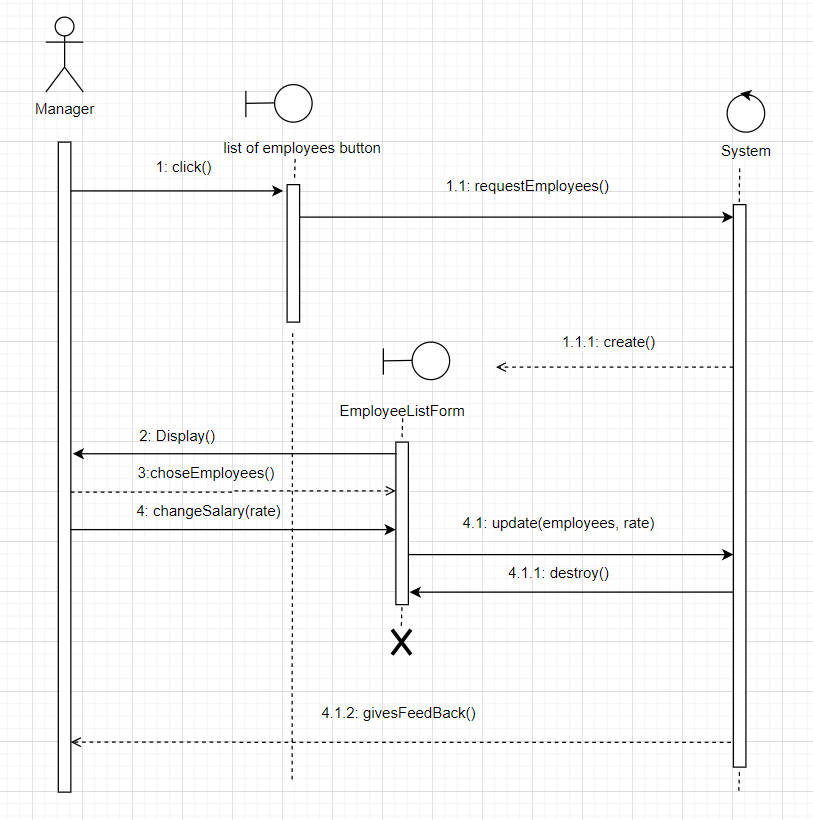
### 1.2.3 Check dairy task



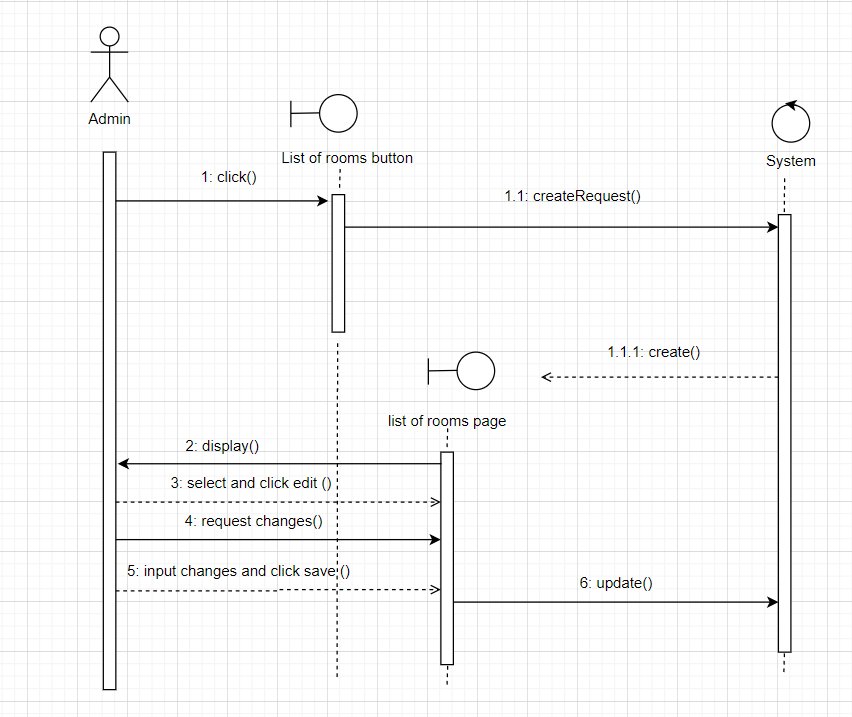
### 1.2.4 Check the event



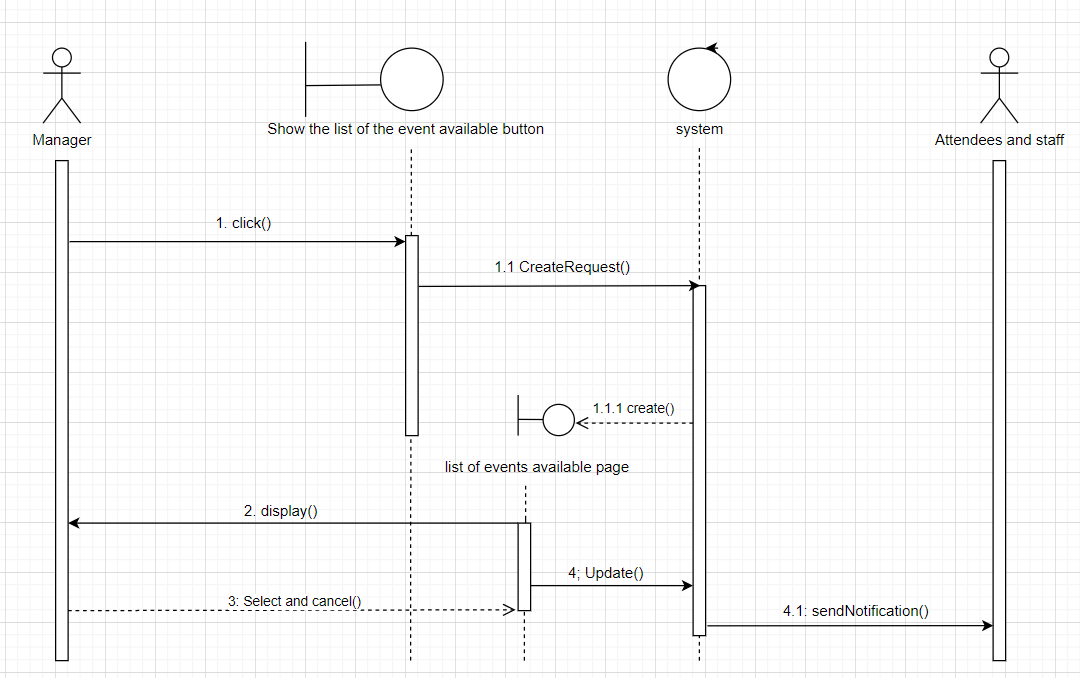
### 1.2.5 Change salary



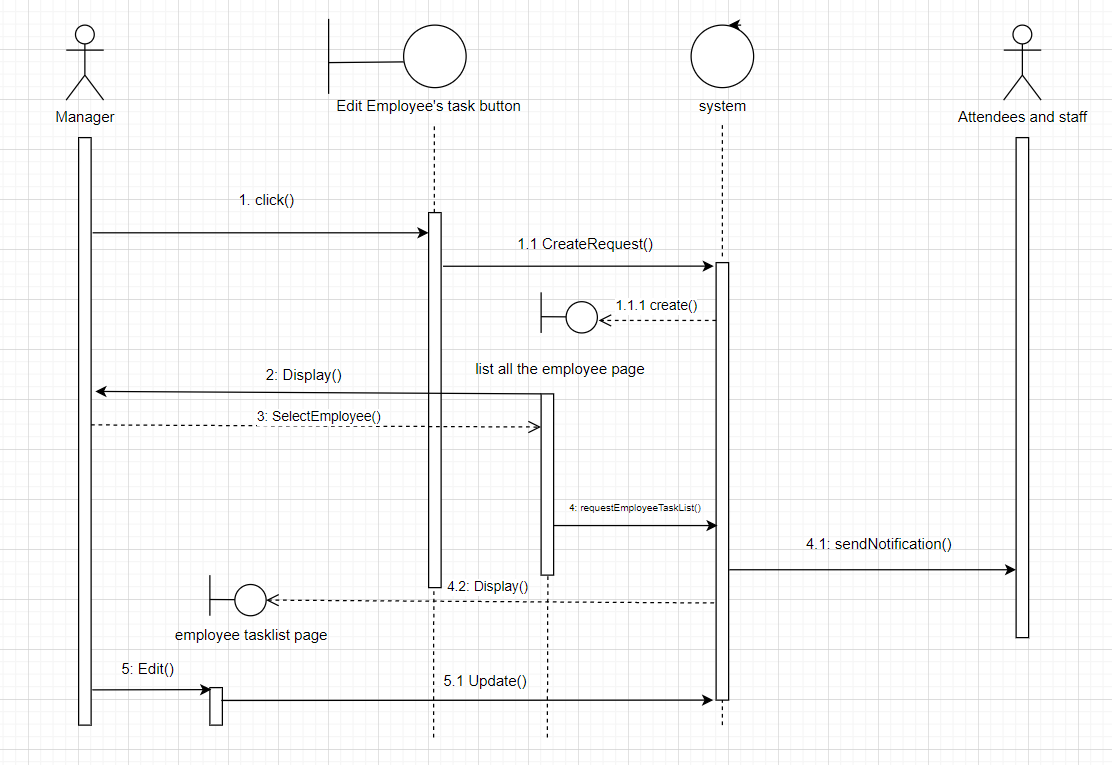
### 1.2.6 Edit room detail



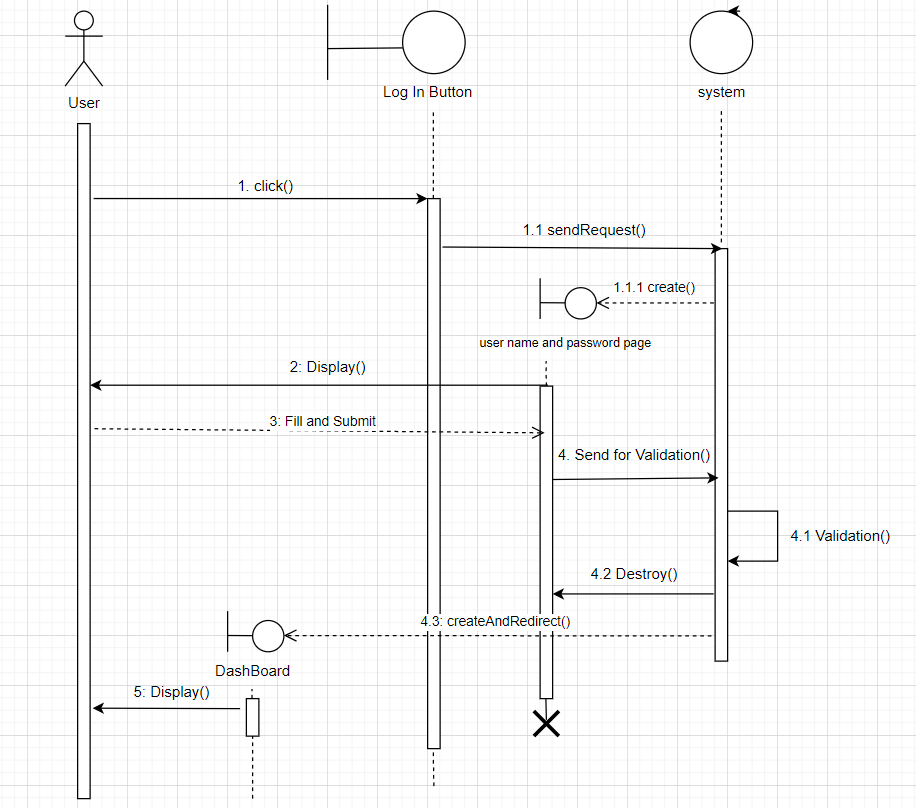
### 1.2.7 Cancel an event



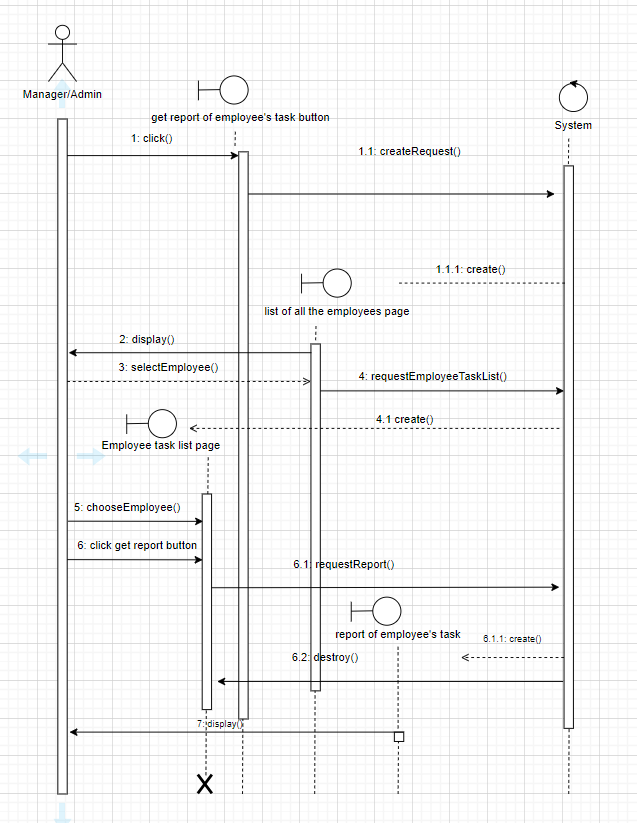
### 1.2.8 Edit an employee’s task



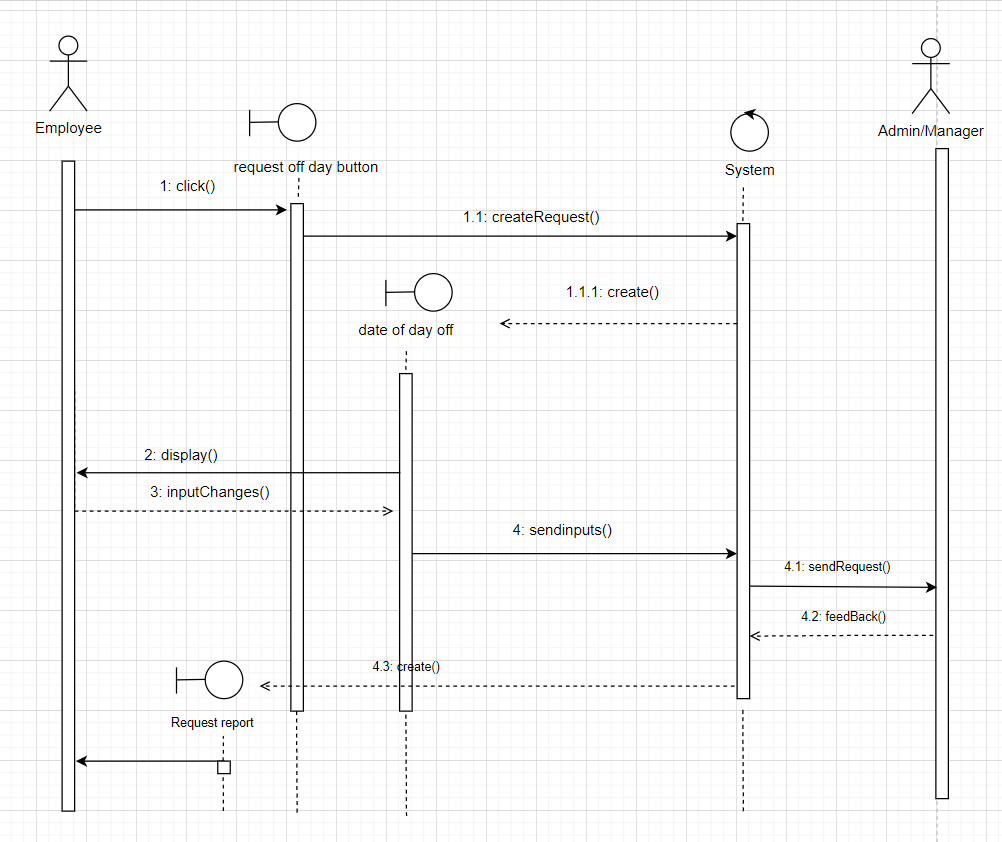
### 1.2.9 Log into the system



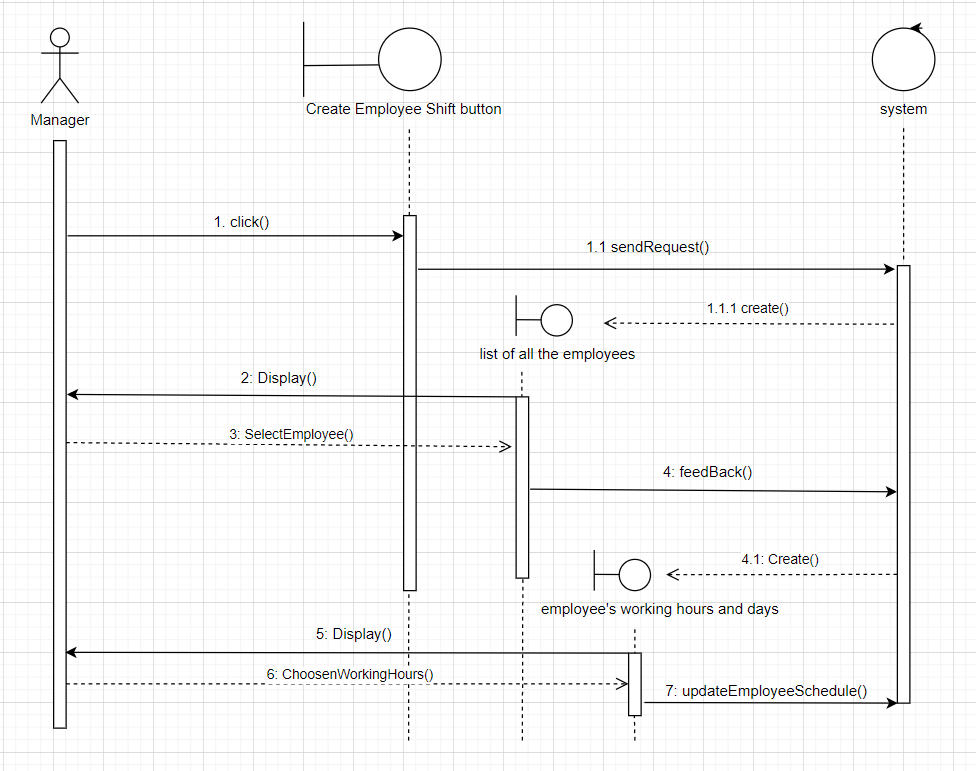
### 1.2.10 Get report of employee’s task



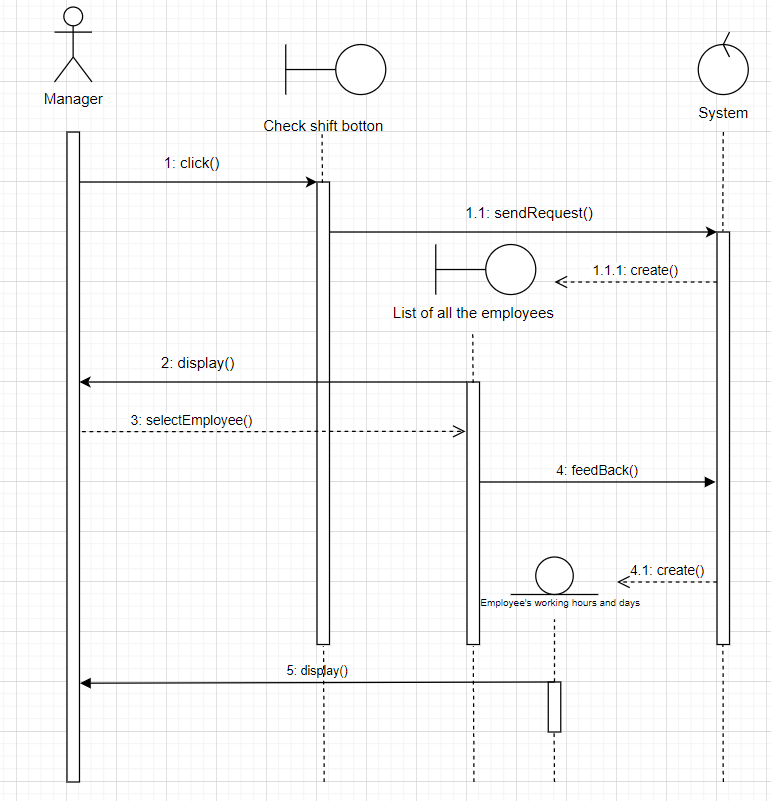
### 1.2.11 Request day off



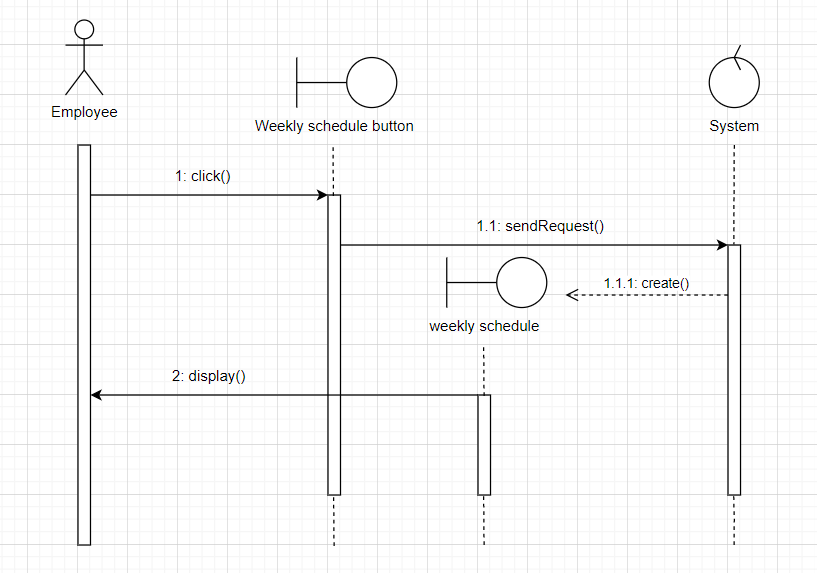
### 1.2.12 Create employee shift



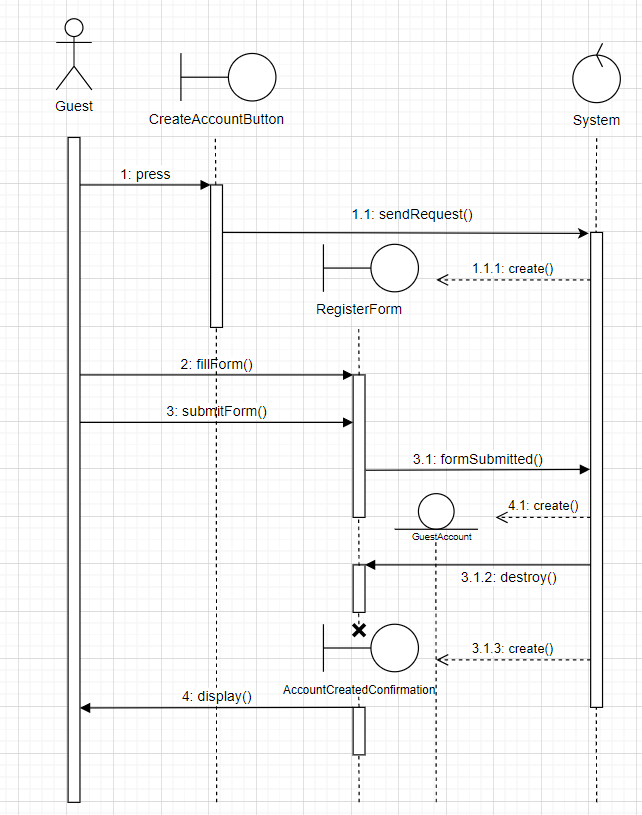
### 1.2.13 Check employee’s shift



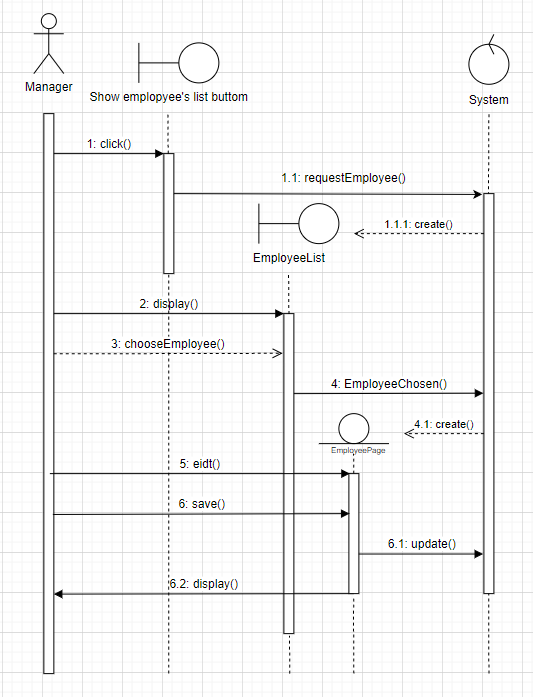
### 1.2.14 Check weekly schedule



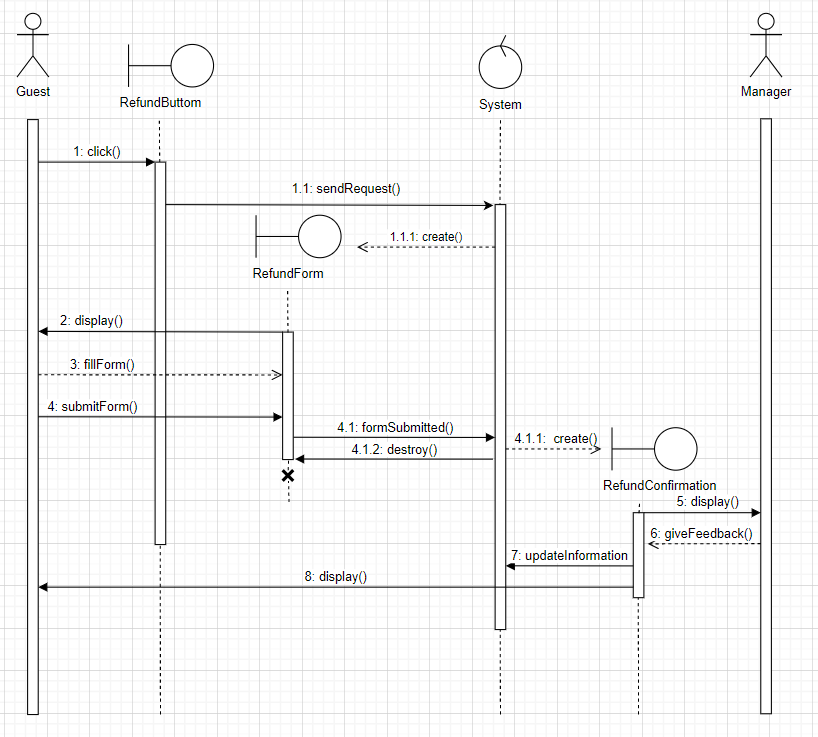
### 1.2.15 Create guest account



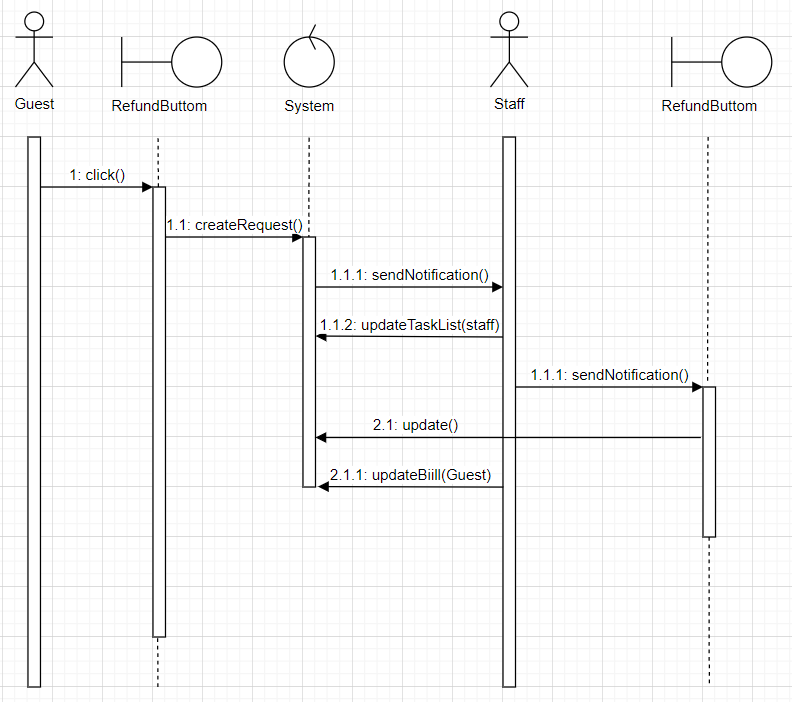
### 1.2.16 Edit employee’s information



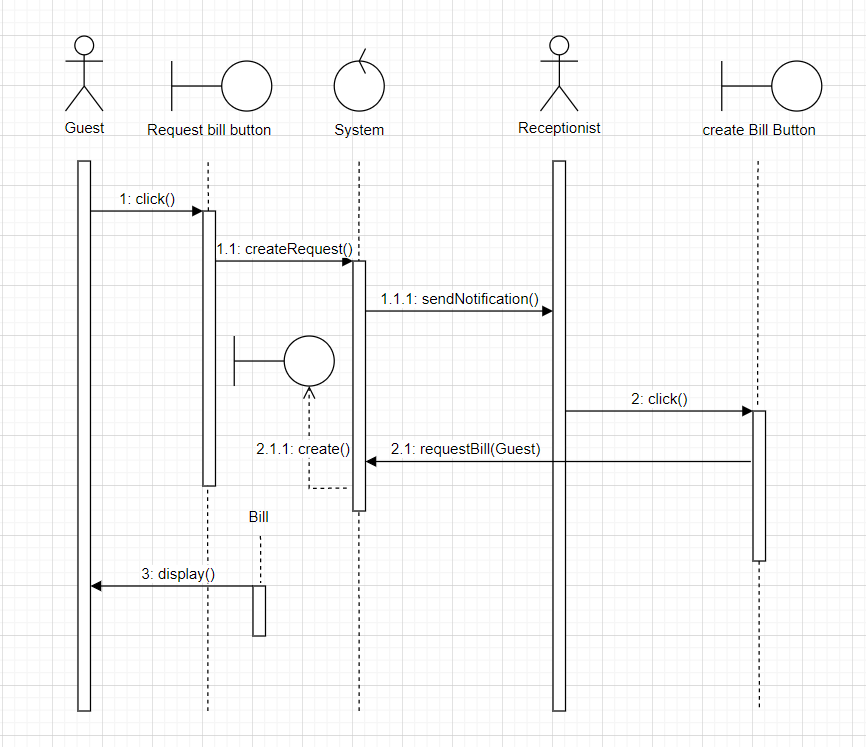
### 1.2.17 Refund payment



### 1.2.18 Request room service



### 1.2.19 Request bill



## **Screens**

### 1.3.1 List of screeens

|  |  |  |
| --- | --- | --- |
| ID | Screen | Functionality |
| 1 | Create account screen | Create a new guest account |
| 2 | Login screen | Login into the web |
| 3 | Index (profile screen) | View the profile of the user |
| 4 | Guest list screen | View all guests |
| 5 | Employee list screen | View all employee |
| 6 | Add new employee screen | All new employee to hotel |
| 7 | Event list screen | View all events |
| 8 | Create event screen | Create new event |
| 9 | Booking list screen | View all bookings of customers |
| 10 | Room list screen | View all rooms and let user add new rooms |
| 11 | Add new room screen | Add a new room |
| 12 | Room services screen | View all services |
| 13 | Announcement list screen | View all announcements |
| 14 | Refund screen | View all current refunds |

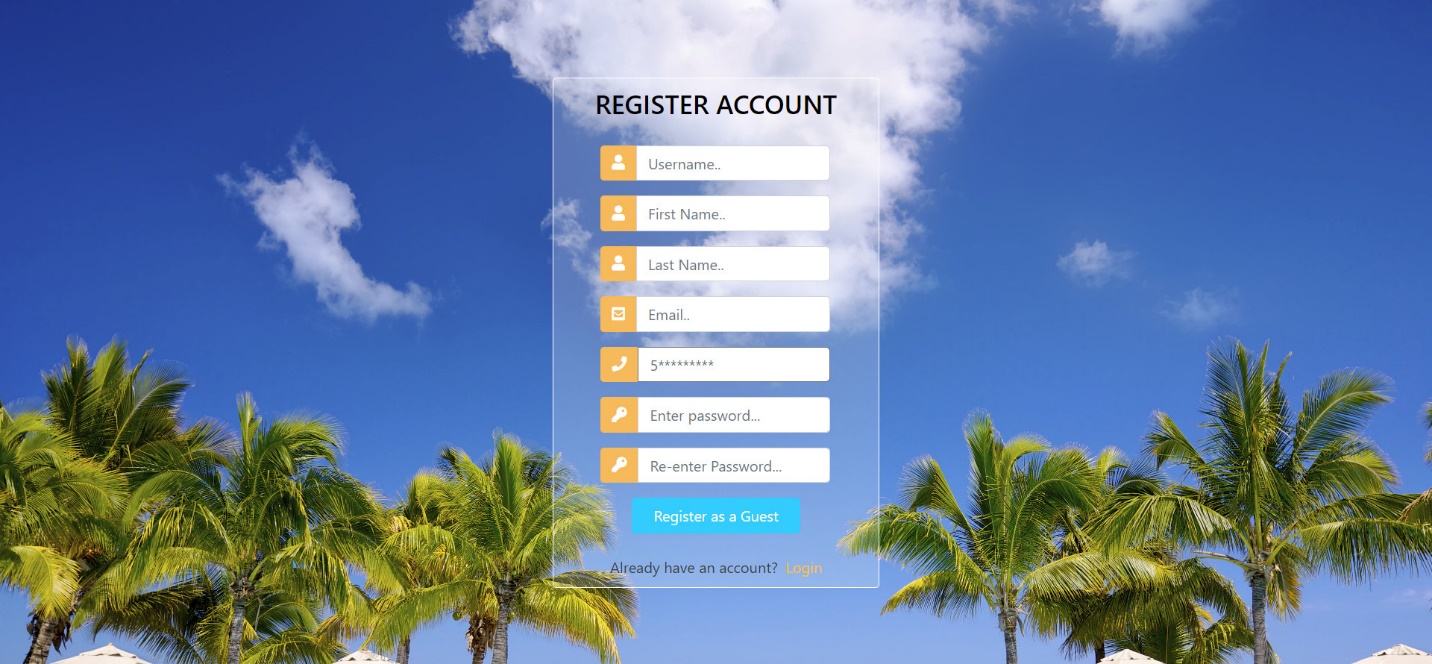
Screen Flow

Ảnh có chứa văn bản, Song song, biểu đồ, Hình chữ nhật

Mô tả được tạo tự động

1.3.3: Screens detail:

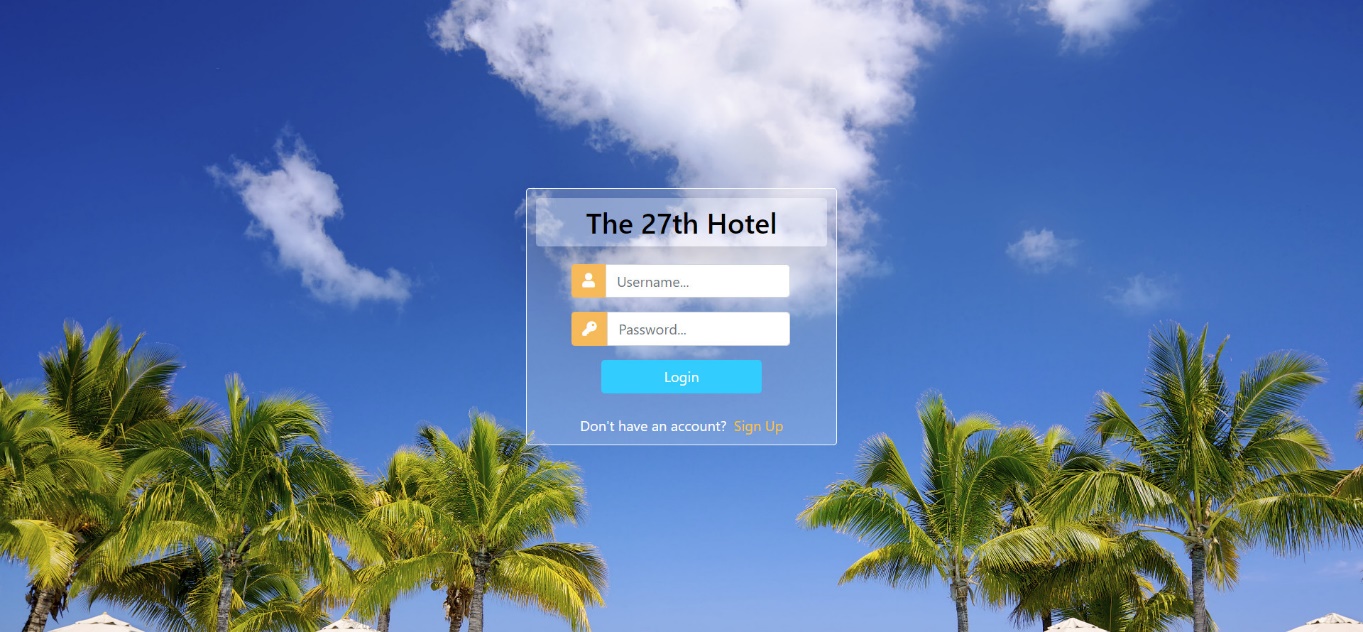
* Create account screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Username | text form | Input username |
| First name | text form | Input first name |
| Last name | text form | Input last name |
| Email | email form | Input email (if user input is not recognized as a valid email, the system will throw an error) |
| Phone | number form | Input phone number  (if user input is not recognized as a valid number, the system will throw an error) |
| Password | text form | Input password |
| Re-enter password | text form | Retype the password (if this password is not the same as the password above, the system will throw an error) |

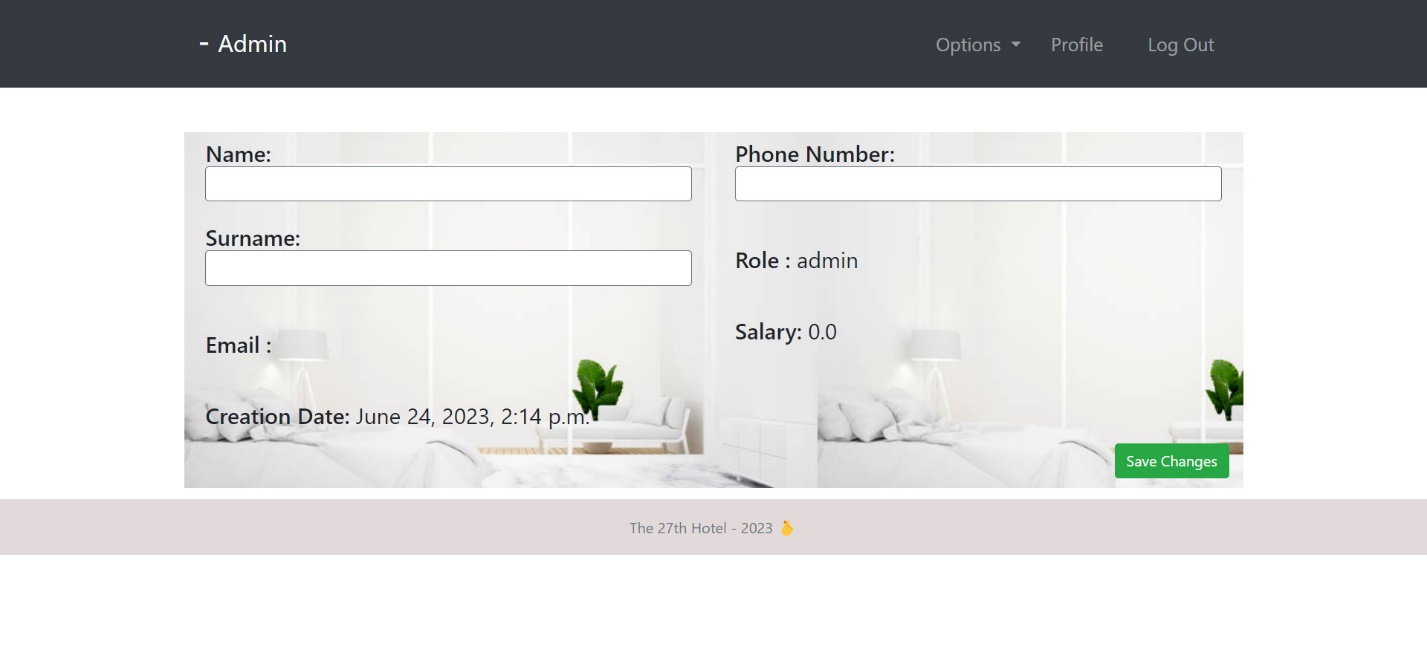
* Login screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Username | text form | Check the validity of user’s username |
| Password | text form | Check the validity of user’s password |
| Login | button | Login into the system if username and password are valid |
| Sign up | href | Redirect to Create account screen |

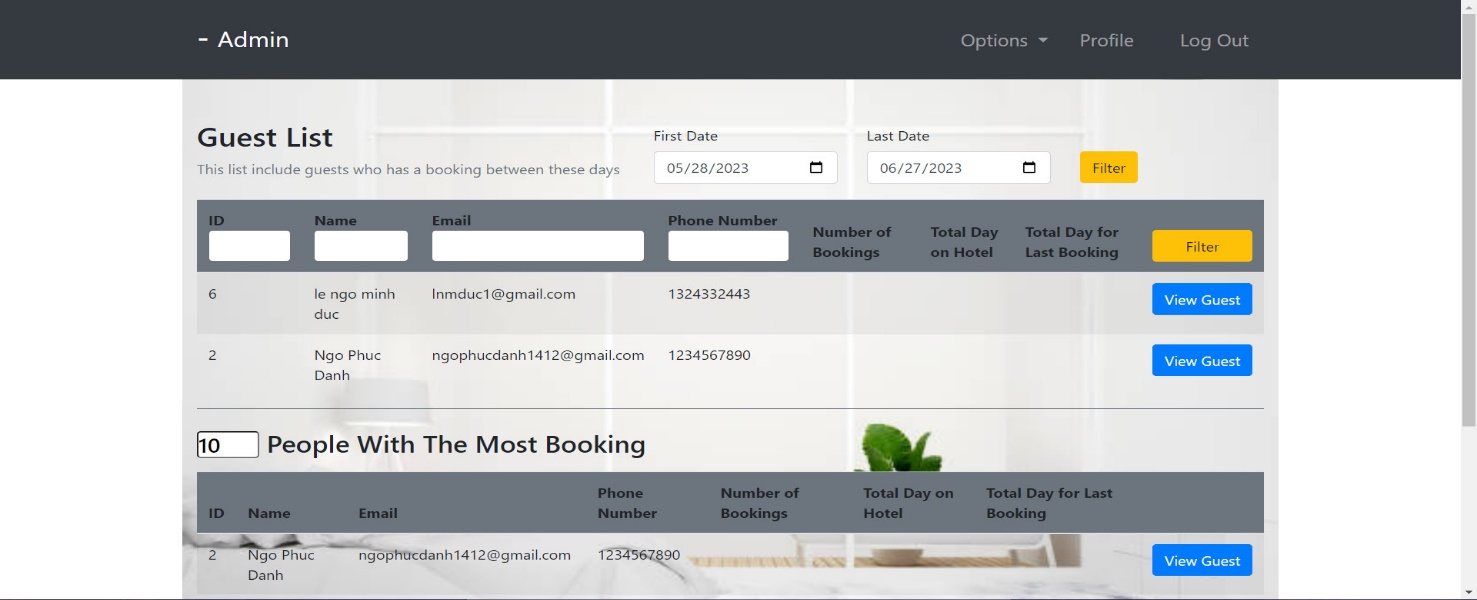
* Profile screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Name | text form | Write the name of the user |
| Surname | text form | Write the surname of the user |
| Phone number | number form | Write the phone number of the user |
| Save changes | button | Save current changes to the system |
| Options | dropdown list | Move to other screens |
| Profile | href | Move to profile page (this page) |
| Log out | href | Move to login page (log out of the system) |

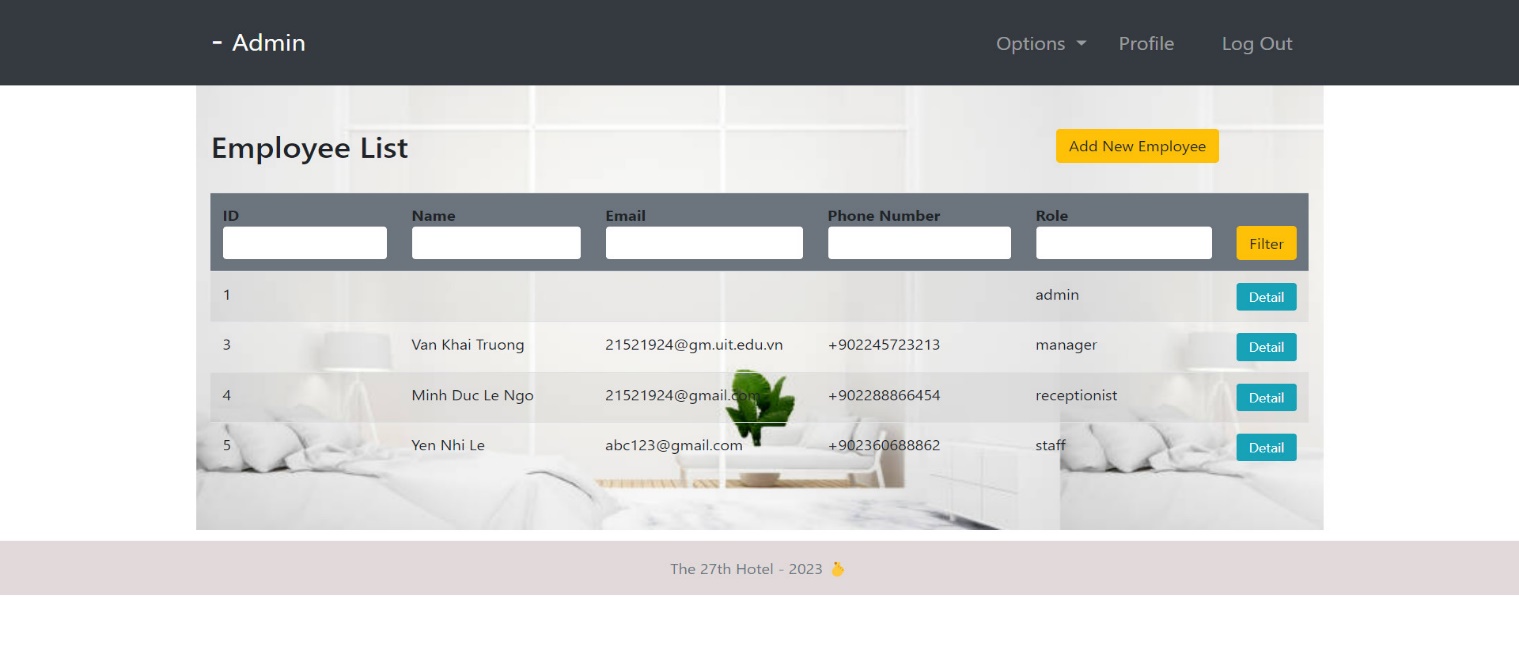
* Guest list screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| First date | DateTime | Let the user control the first date of the booking duration of a guest |
| Last date | DateTime | Let the user control the last date of the booking duration of a guest |
| ID | number form | Input id of guest |
| Name | text form | Input name of guest |
| Email | text form | Input email of guest (check validity of this form) |
| Phone number | number form | Input phone number of guest (check validity of this form) |
| Filter | button | filter the guests with the above queries |

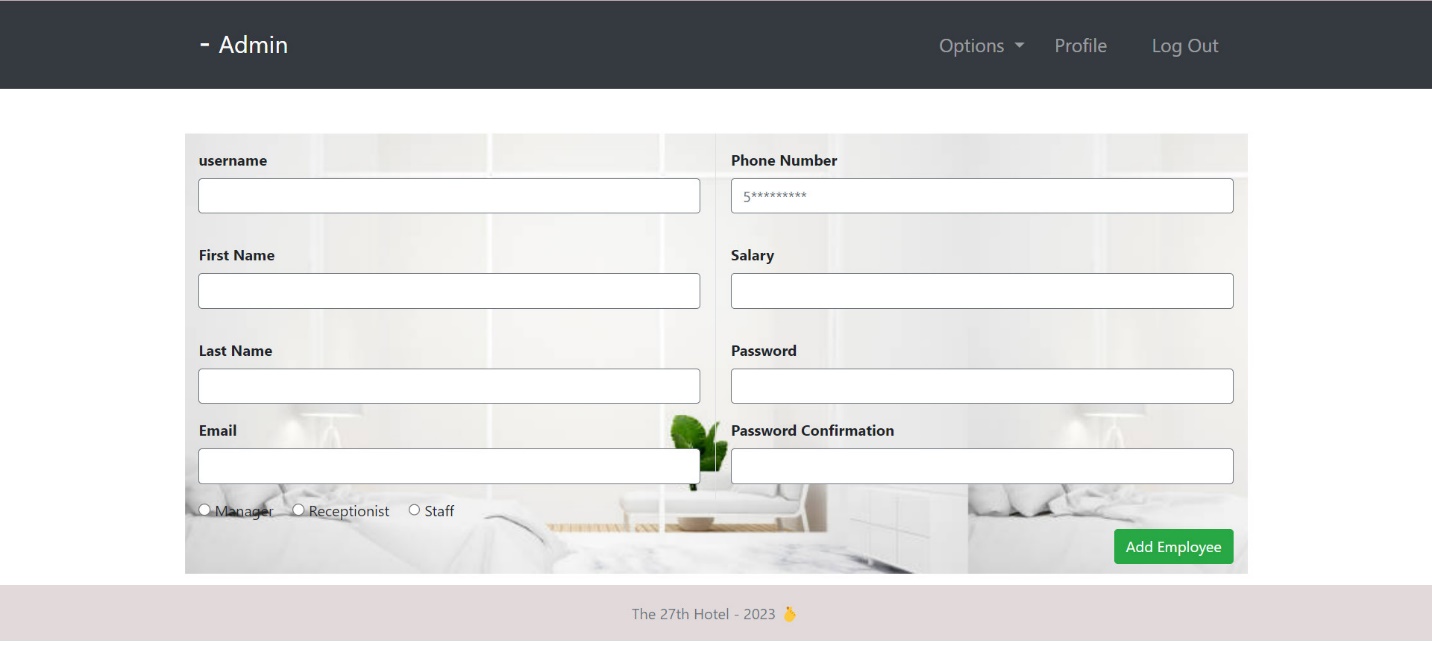
* Employee list screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| ID | number form | Input id of employee |
| Name | text form | Input name of employee |
| Email | text form | Input email of employee(check validity of this form) |
| Phone number | number form | Input phone number of employee (check validity of this form) |
| Role | text form | Input the role of employee |
| Filter | button | filter the employee with the above queries |
| Add new employee | button | redirect to Add new employee screen |
| Detail | button | navigate to employee’s profile |

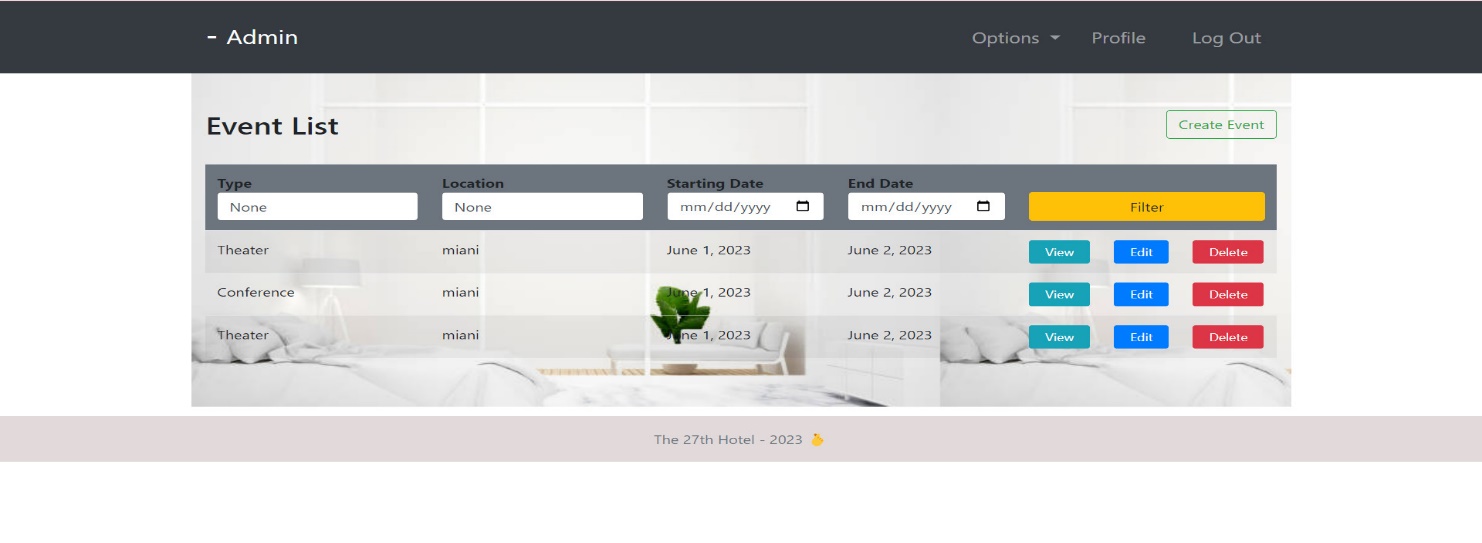
* Add new employee screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Username | text form | Add the username of the employee |
| First name | text form | Add the first name of the employee |
| Last name | text form | Add the last name of the employee |
| Email | text form | Add the email of the employee (check the validity of this form) |
| Phone number | number form | Add the phone number of the employee |
| Salary | number form | Add the salary of the employee |
| Password | text form | Create new password for the employee |
| Password confirmation | text form | Reconfirm the password above (check the validity of this form) |
| Add employee | button | Confirm the work and save this employee |

* Event list screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Type | text form | Input the type of the event |
| Location | text form | Input the location of the event |
| Starting date | DateTime | Input the starting date of the event |
| End date | DateTime | Input the end date of the event |
| Filter | button | filter the event with the above queries |
| Create event | button | Navigate to Create event screen |

* Create event screen:

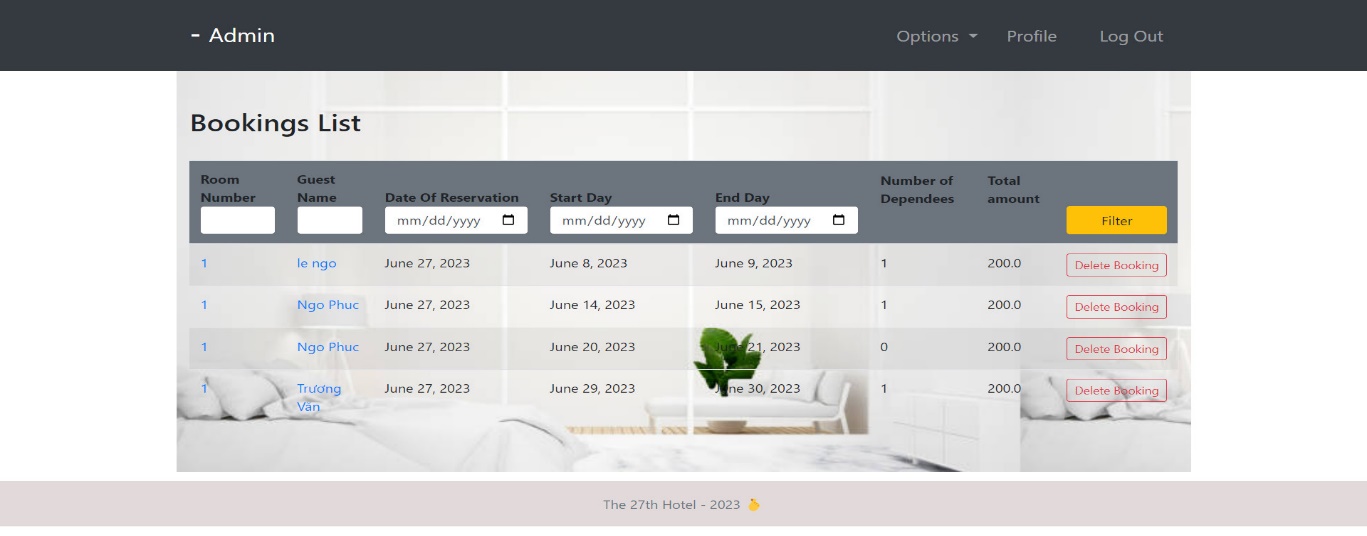
Ảnh có chứa văn bản, Hình chữ nhật, hàng, ảnh chụp màn hình

Mô tả được tạo tự động

Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Event type | text form | Add the type for the event |
| Location | text form | Add the location for the event |
| Start date | DateTime | Add the start date for the event |
| End date | DateTime | Add the end date for the event |
| Explanation | text form | Add the comments and explanations for the event |
| Save | button | Confirm all changes for the event and save it to the system |

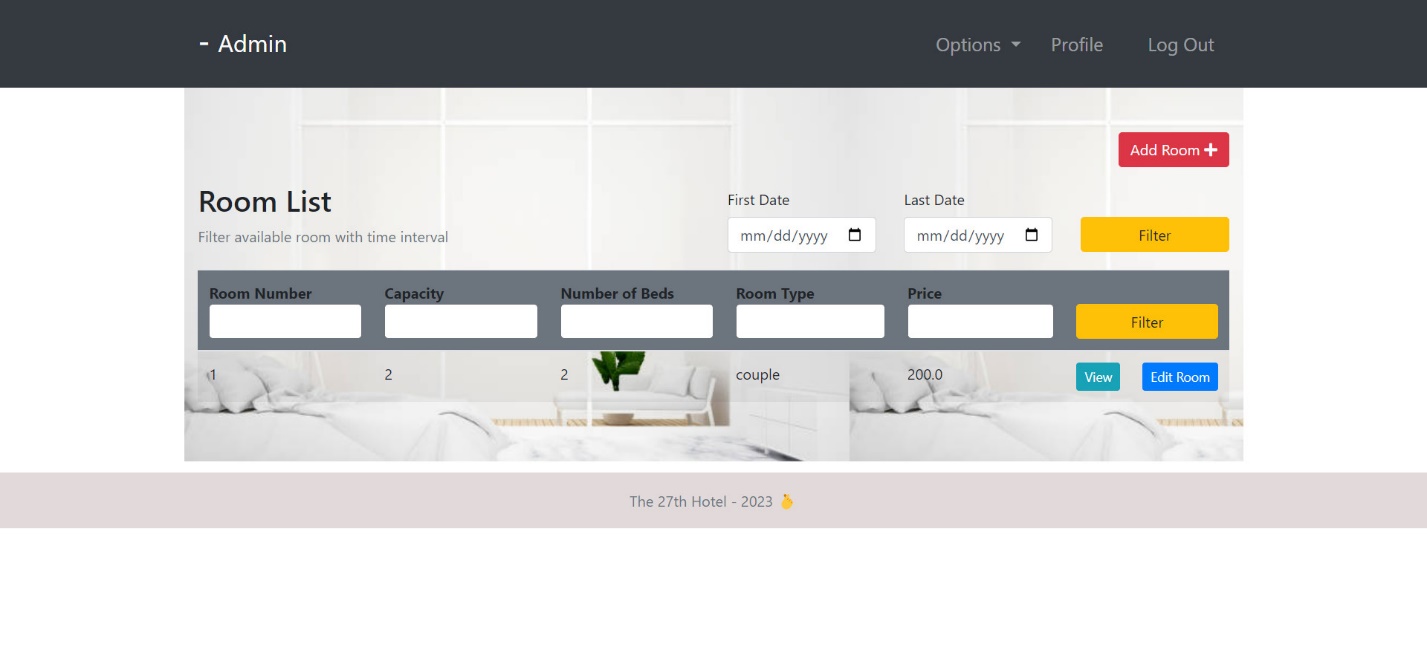
* Booking list screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Room number | number form | Input the number of a room already booked |
| Guest name | text form | Input the name of the customer who booked this room |
| Date of Reservation | DateTime | Input the date that the booking was made |
| Start date | DateTime | Input the starting date of the booking |
| End date | DateTime | Input the end date of the booking |
| Filter | button | filter the booking with the above queries |

* Room list screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Room number | number form | Input the number of a room user need to find |
| Capacity | number form | Input the number of people that the room can contains |
| Number of beds | number form | Input the number of beds that the room can contains |
| Room type | text form | Input the type of the room |
| Price | number form | Input the price of the room |
| Filter | button | filter the room with the above queries |
| First date | DateTime | Input the first date of the room being booked |
| Last date | DateTime | Input the last date of the room being booked |
| Add room | button | Navigate to Add room screen |

* Add new room screen:

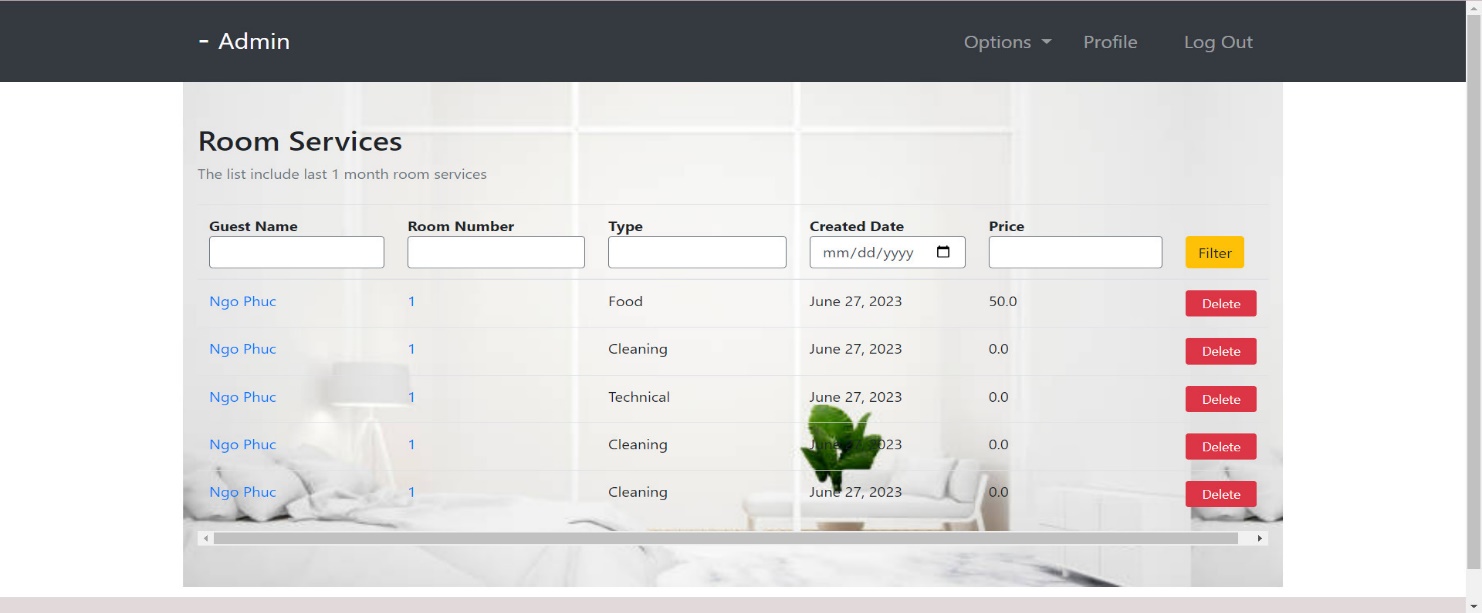
Ảnh có chứa ảnh chụp màn hình, văn bản, thiết kế

Mô tả được tạo tự động

Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Room number | number form | Input the number of a room user need to add |
| Capacity | number form | Input the number of people that the room can contains |
| Number of beds | number form | Input the number of beds that the room can contains |
| Room type | text form | Input the type of the room |
| Price | number form | Input the price of the room |
| Add room | button | Confirm the creation of the room and save it to the system |

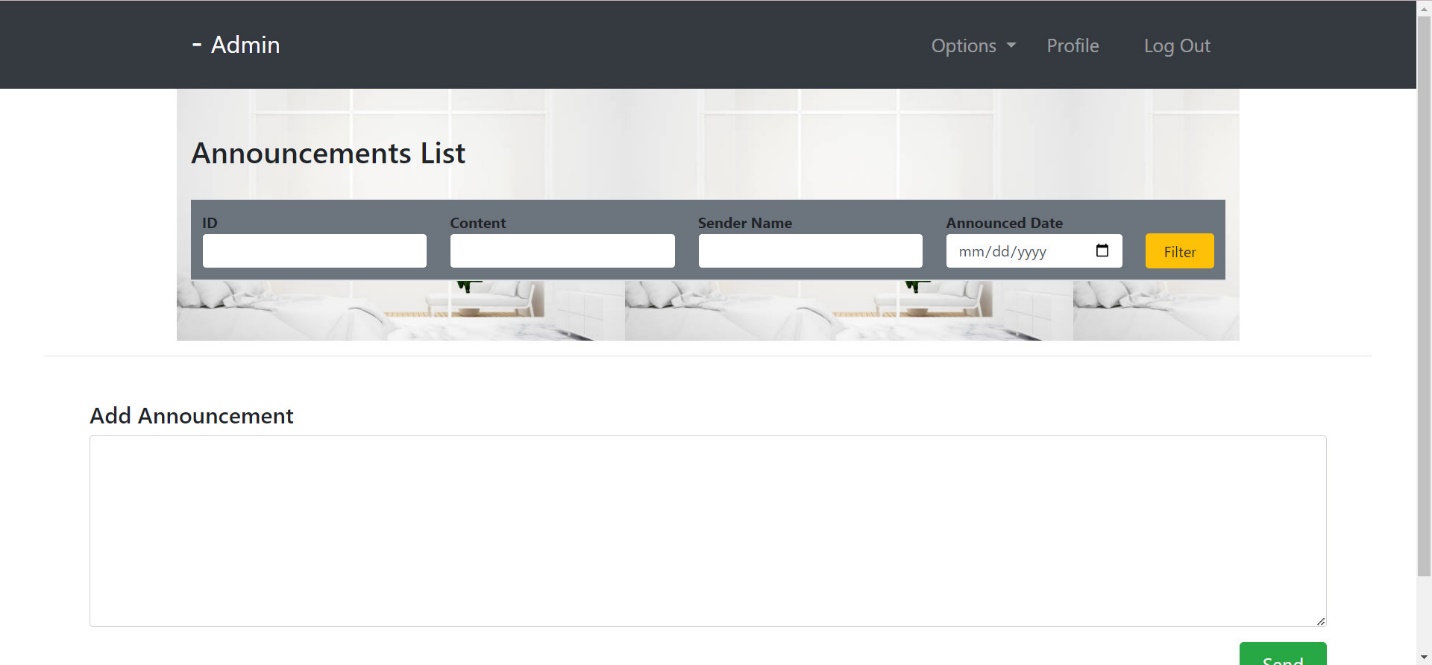
* Room services screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Guest name | text form | Input the guest name who booked the room service |
| Room Number | number form | Input the room number for the room service |
| Type | text form | Input the type of the room service |
| Created Date | DateTime | Input the created date of the room service |
| Price | number form | Input the price of the room service |
| Filter | button | filter the room service with the above queries |

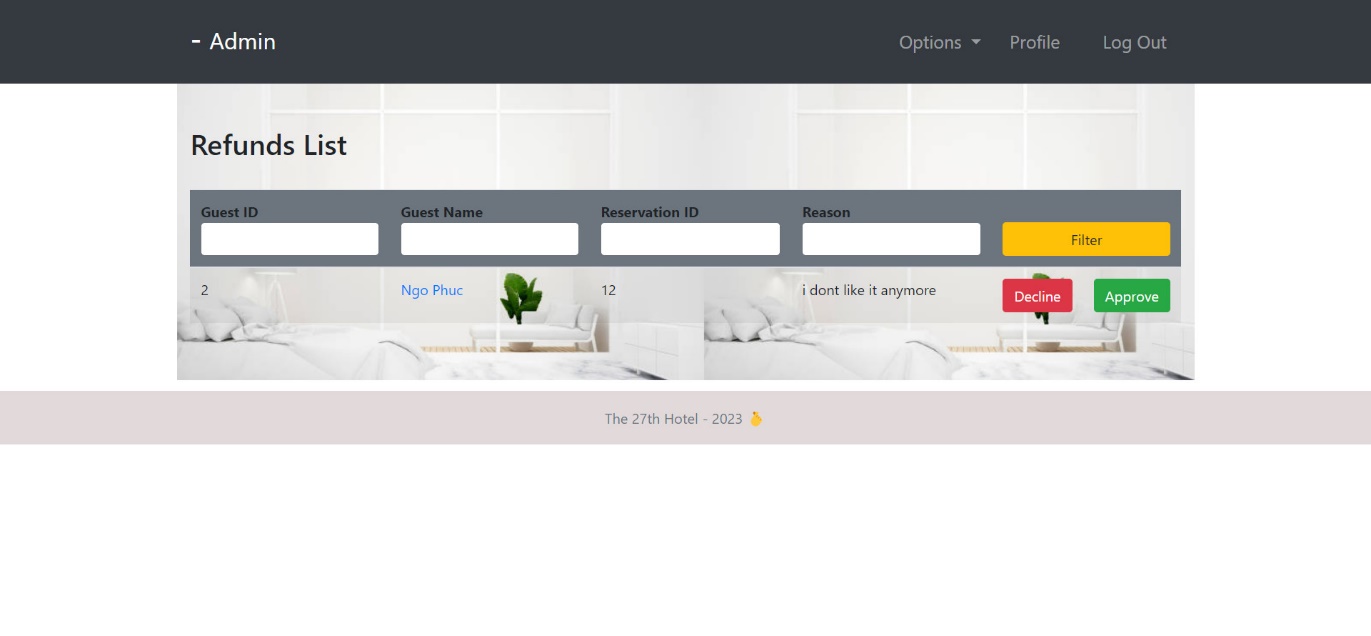
* Announcement list screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| ID | number form | Input the id of the announcement |
| Content | text form | Input the content of the announcement |
| Sender name | text form | Input the sender name of the announcement |
| Announced date | DateTime | Input the date the announcement was made |
| Filter | button | filter the announcement with the above queries |
| Send | button | send the announcement to all users (to their email address) |

* Refund screen:



Functionality descriptions:

|  |  |  |
| --- | --- | --- |
| Name | Type | Functionality |
| Guest ID | number form | Input the guest id who made a refund |
| Guest name | text form | Input the name of the guest who made a refund |
| Reservation ID | number form | Input the reservation id |
| Reason | text form | Input the reason of the refund |
| Filter | button | filter the refund with the above queries |