



# **System Implementation Document**

## **Software Engineering**

### **Project 10: Jade Hill Homestay**

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## Requirments:

- NodeJS 16.0+
- Git

## Setup environment:

Step 1: Clone project SE.20212.Group505

- *git clone* <https://github.com/tandung10x/SE.20212.Group505>
- *cd SE.20212.Group505*

Step 2: Setup the server

- Move to the folder “Server”: *cd Server*
- Install ExpressJS: *npm add Express*
- Start the server:

+ *npm run dev*: server will restart whenever the source code in folder “Server” has changed

+ *npm start*: server will not restart whenever the source code in folder “Server” has changed

If the terminal shows “Server is run at port: 3000

Connected to mongoDB”, it means that the project’s server is working.

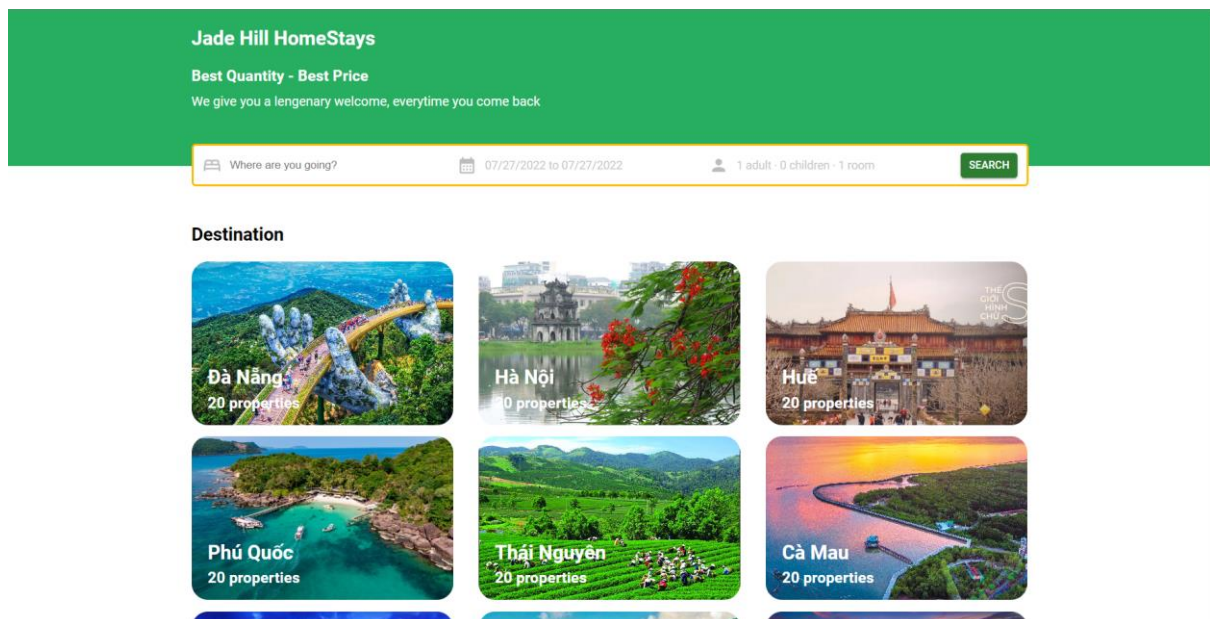
Step 3: Setup the client

- Split the terminal and move to the folder “Booking-app”: *cd Booking-app*
- Install required packages: *npm install*
- Start the project: *npm start*

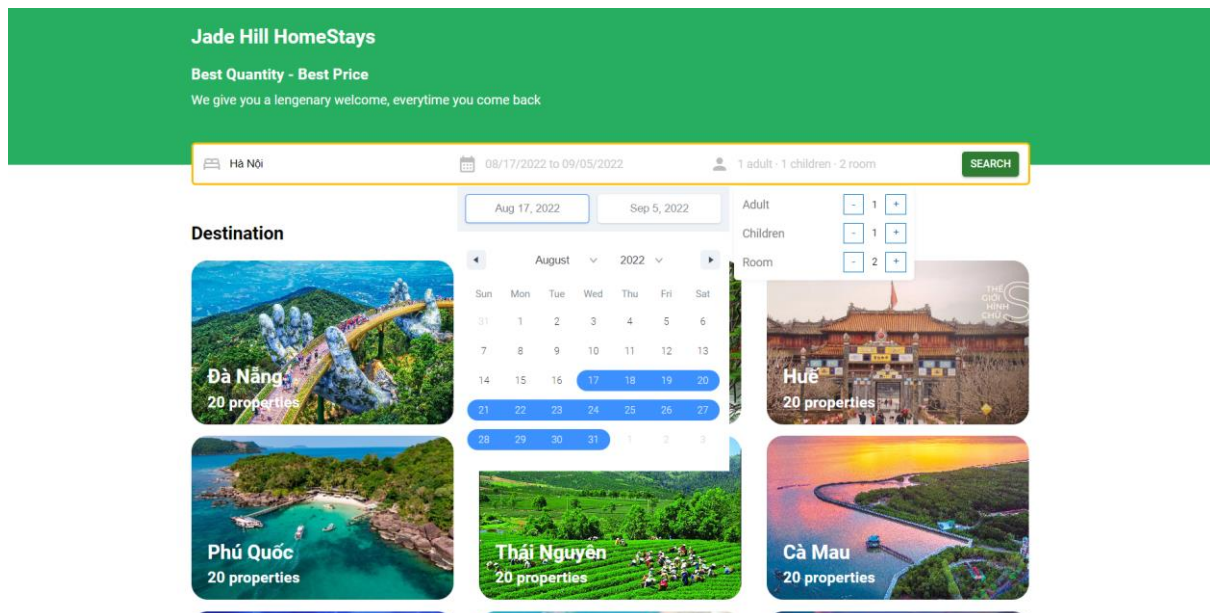
# 1. Customer

## 1.1. Search room

Step 1: Access to the homepage



Step 2: Fill in the Destination, Time range, and Number of Adults/Childrens



Step 3: Click “Search” button

Or customers can choose a destination in the below section

## 1.2. Reserve room

Step 1: Select suitable room by clicking “See availability”

### Jade Hill HomeStays

**Search**

Destination

Hà Nội

Check-in Date

08/17/2022 to 09/05/2022

Options

Min price per night

10

Max price per night

999

Adult

1

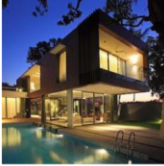
Children

1

Room

2

SEARCH



**Apartment**

300m from center

Free airport taxi

Studio Apartment with Air conditioning

Entire studio, 1 bathroom 21m<sup>2</sup> full bed

Free cancellation

You can cancel later, so lock in this great price today!

Excellent 7.4

\$325

Includes taxes and fees

See availability

Save time, save money!

Sign up and we'll send the best deals to you

Your Email






Subscribe

Step 2: Click “Reserve or Book Now”

**Apartment**

Excellent location - 300m from center

Book a stay over \$325 at this property and get a free airport taxi



**Stay in the heart of city**

Entire studio, 1 bathroom 21m<sup>2</sup> full bed

Lorem ipsum dolor sit amet consectetur adipisicing elit. Ullam pariatur beatae quo facilis reprehenderit, veniam doloremque quidem unde delectus nesciunt maxime iure id quasi iusto! Quis, laborum. Doloribus, pariatur enim. Lorem ipsum dolor sit amet consectetur adipisicing elit. Ullam pariatur beatae quo facilis reprehenderit, veniam doloremque quidem unde delectus nesciunt maxime iure id quasi iusto! Quis, laborum. Doloribus, pariatur enim. Lorem ipsum dolor sit amet consectetur adipisicing elit. Ullam pariatur beatae quo facilis reprehenderit, veniam doloremque quidem unde delectus nesciunt maxime iure id quasi iusto! Quis, laborum. Doloribus, pariatur enim.

Reserve or Book Now!

Perfect for a 1-night stay!

Located in the real heart of Krakow, this property has an excellent location score of 9.8!

\$325 (1 nights)

Reserve or Book Now!

3

### Step 3: Fill in customer's information

**Jade Hill HomeStays**

**Enter your details**

Fullname

Age

Gender

☐ Female ☐ Male

Phone number

Email

Address

Type of room

apartment

Service

CONFIRM

**Your booking detail**

Check-in

07/27/2022

Check-out

07/28/2022

From 14:00

Until 12:00

**Total length of stay: 1 night**

**Your select**

1 room

**Total: \$325**

### Step 4: Click “confirm”

### Step 5:

+) If the room is available: Check email and enter the confirmation OTP code

**Enter your details**

Fullname

Bui Thuan

Age

28

Gender

☐ Female ☒ Male

Phone number

0834720052

Email

nauhtdz@gmail.com

Address

Bach Khoa Dorm

Room

resort

Service

Karaoke

CONFIRM

**Your booking detail**

Check-in

06/28/2022

Check-out

06/29/2022

From 14:00

Until 12:00

**Total length of stay: 1 night**

**Your select**

1 room

**Total: \$325**

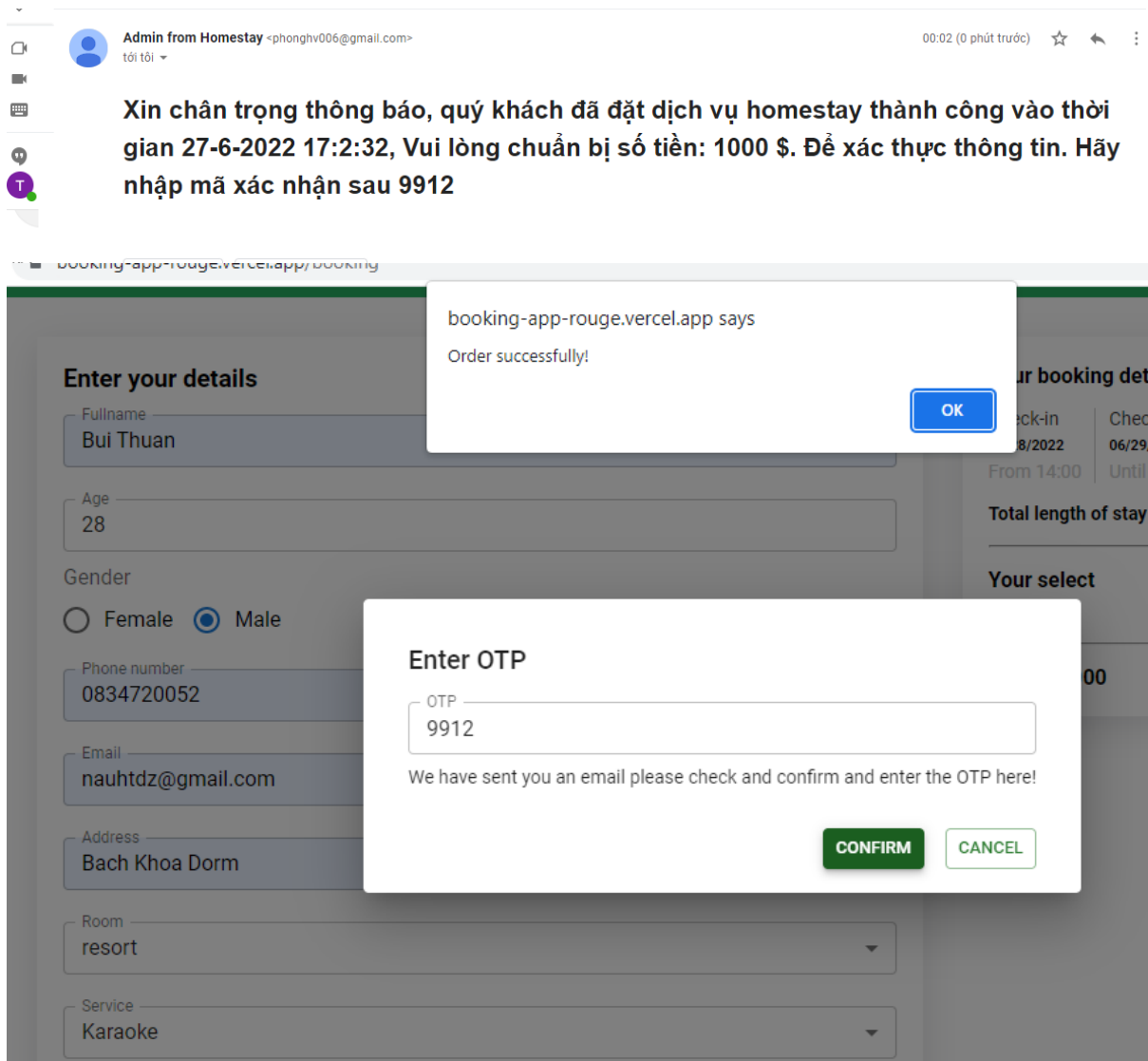
**Enter OTP**

OTP

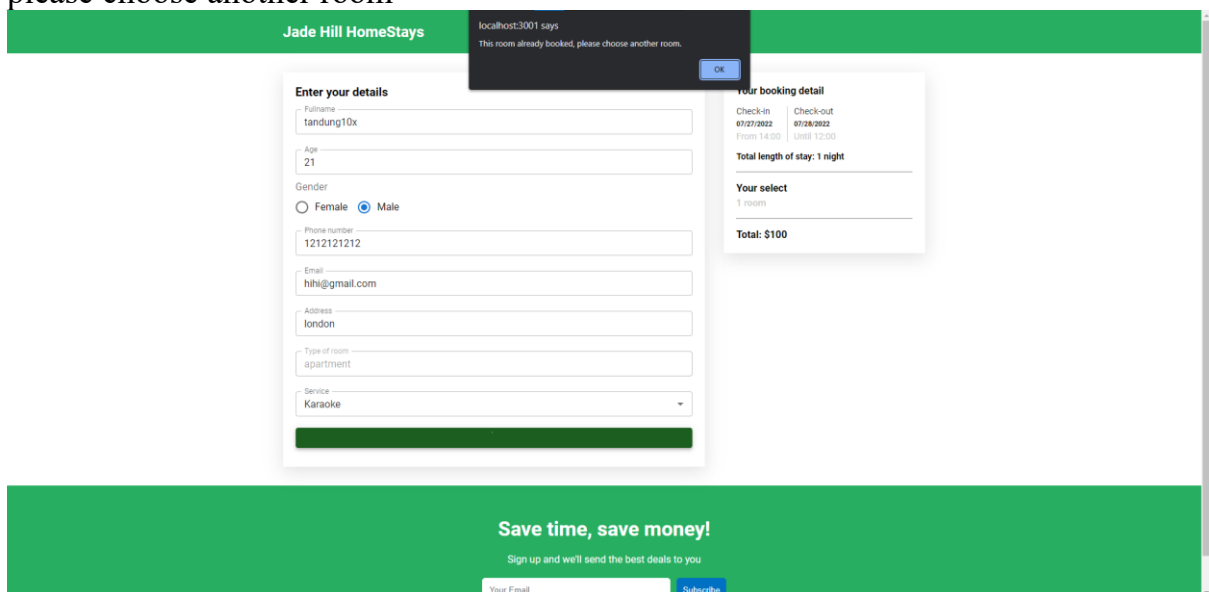
We have sent you an email please check and confirm and enter the OTP here!

CONFIRM

CANCEL



+) If the homestay is not available, a popup says: “this room already booked, please choose another room”



## 2. Staff

### 2.1. Update Homestay

#### Step 1: Choose “Homestay” feature

The screenshot shows the 'Jade Hill HomeStays' dashboard. On the left is a sidebar menu with categories: MAIN (Dashboard), LISTS (Homestays, Services), USEFUL (Stats, Notifications), SERVICE (System Health, Logs, Settings), and USER (Profile, Logout). The main content area is titled 'List Homestay' and contains a table with the following data:

Room ID	Destination	Type	Max people	Price	Manager	Other information	Actions
62d69d8b5cb657a9ff3803fa	Yên Bái	resort	2	\$300	staff789	phòng đẹp	<a href="#">View</a>

#### Step 2: Select “view”

#### Step 3: Make changes by fill in data and then click “Update”

The screenshot shows the 'Jade Hill HomeStays' dashboard with the 'Update Room' form. The sidebar menu is the same as in the previous screenshot. The main content area is titled 'Update Room' and contains a form with the following fields:

- Room ID: 62d69d8b5cb657a9ff3803fa
- Type of room \*:
- Manager:
- Max people: 2
- Cost(1 day): 300
- Other information: phòng đẹp

At the bottom of the form is a blue 'UPDATE' button.

### 2.2. Update services

#### Step 1: Choose “Services” feature

Jade Hill HomeStays

Search...

English

dungt

MAIN

Dashboard

LISTS

Homestays

Services

USEFUL

Stats

Notifications

SERVICE

System Health

Logs

Settings

USER

Profile

Logout

List Service

Add New Service

Service ID	Name	Service Price	Room	Room Price	Detail	Actions
62b2e528a1730f6d63535abc	Moto Bike	\$200	apartment	\$999	grab	<button>View</button> <button>Delete</button>
62b2e531a1730f6d63535abe	Car	\$200	apartment	\$999	grab	<button>View</button> <button>Delete</button>
62b2e53ca1730f6d63535ac0	Karaoke	\$300	apartment	\$999	grab update	<button>View</button> <button>Delete</button>
62c87125d1ac82ad5026ea20	Breakfast	\$50	cabin	\$150	qwewqe	<button>View</button> <button>Delete</button>
62dfc93c83c36b22899e6ec6	Bicycle	\$10	villa	\$250	rent bike	<button>View</button> <button>Delete</button>
62dfc97f83c36b22899e6ecb	Boat	\$400	Resort	\$900	sighseeing	<button>View</button> <button>Delete</button>

Jade Hill HomeStays

English🌐 ⚙️ 🔔 🔴 🔴 ☰ dungttdungtt

MAIN

Dashboard

LISTS

Homestays

Services

USEFUL

Stats

Notifications

SERVICE

System Health

Logs

Settings

USER

Profile

Logout

Add Service

<

Service name \*

Room \*

Cost \*

\$ 0

More detail

CREATE SERVICE

Jade Hill HomeStays

English🌐 ⚙️ 🔔 🔴 🔴 ☰ dungttdungtt

MAIN

Dashboard

LISTS

Homestays

Services

USEFUL

Stats

Notifications

SERVICE

System Health

Logs

Settings

USER

Profile

Logout

Update Service

<

Service ID

62b2e528a1730fd6d63535abc

Service name\*

Moto Bike

Cost\*

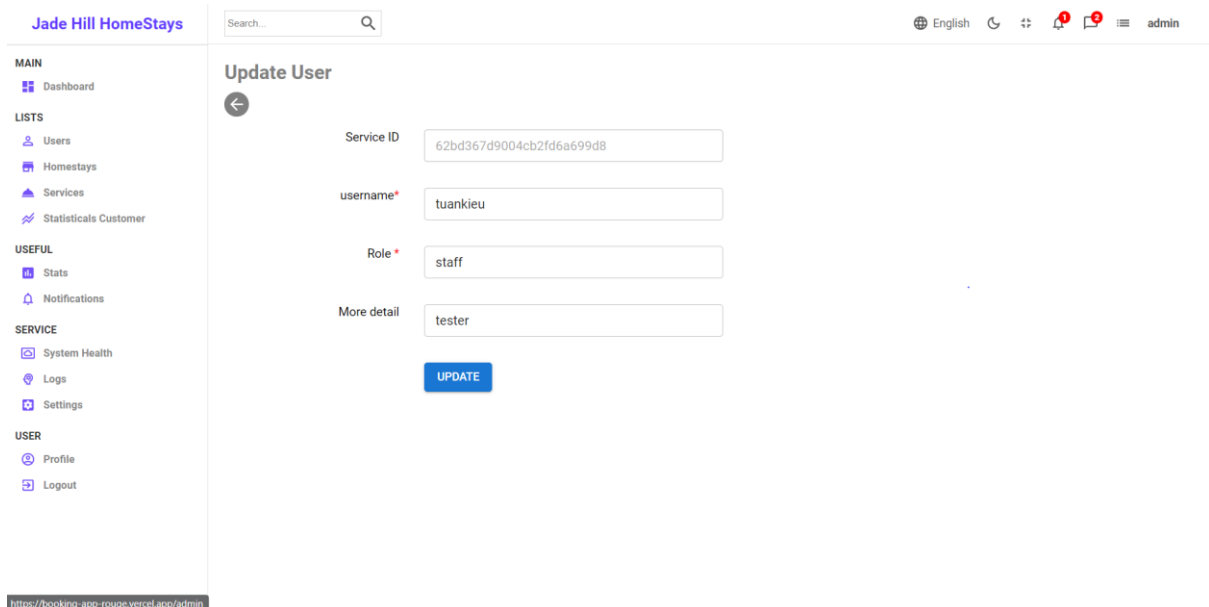
200

More detail

grab

UPDATE

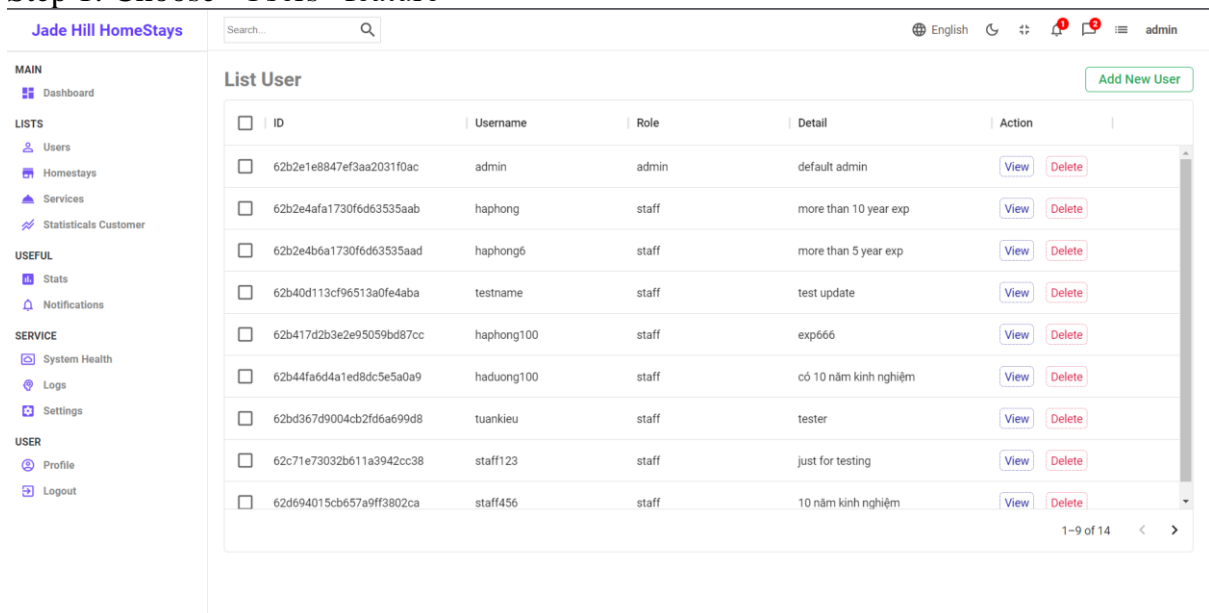




Step 4: Click “Update”.

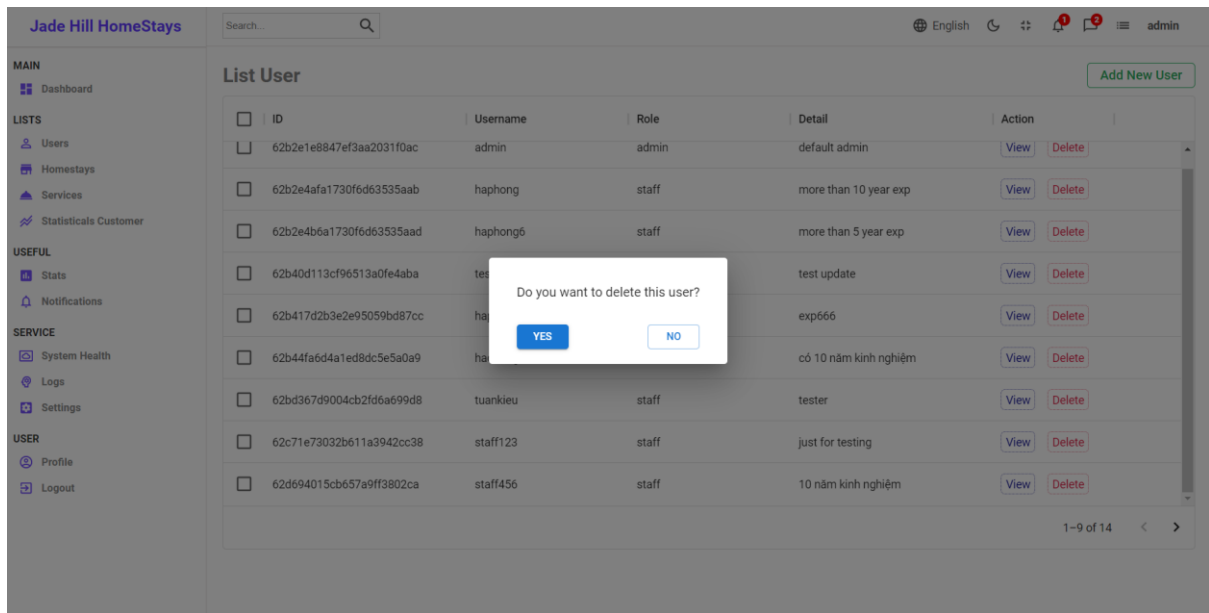
### 3.1.2. Delete staff.

Step 1: Choose “Users” feature



Step 2: Click “Delete”

Step 3: Confirm



3.1.3. Add new staff  
 Step 1: Click “Add new User”  
 Step 2: Fill in data

**Add User**

Username \*

Username is required

Password \*

Password is required

Role \*

More detail

[CREATE USER](#)

Step 3: Click “CREATE USER”

## 3.2. Manage Homestays

### 3.2.1. Update room

Step 1: Choose “Homesatys” feature

Step 2: Click “View”

Jade Hill HomeStays

Search...

English

1

2

admin

MAIN

Dashboard

LISTS

Users

Homestays

Services

Statistics Customer

USEFUL

Stats

Notifications

SERVICE

System Health

Logs

Settings

USER

Profile

Logout

List Homestay

Add New Homestay

Room ID	Destination	Type	Max people	Price	Manager	Other information	Actions
62b2e501a1730f6d63535ab6	Đà Nẵng	apartment	90	\$999	Not yet	beautiful view	<a href="#">View</a> <a href="#">Delete</a>
62b340a06065c18774172a9f	Hà Nội	apartment	10	\$325	admin	test room	<a href="#">View</a> <a href="#">Delete</a>
62b372adea906ef71d53e5f7	Huế	apartment	9	\$100	Not yet	test	<a href="#">View</a> <a href="#">Delete</a>
62b417f3b3e2e95059bd87cf	Thái Nguyên	villa	100	\$250	haphong100	xjn	<a href="#">View</a> <a href="#">Delete</a>
62b42735b3e2e95059bd892e	Phù Quốc	resort	10	\$351	testname	test update 2	<a href="#">View</a> <a href="#">Delete</a>
62c870ded1ac82ad5026ea13	Lâm Đồng	cabin	2	\$150	staff123	queqwe	<a href="#">View</a> <a href="#">Delete</a>
62d69d8b5cb57a9ff3803fa	Yên Bái	resort	2	\$300	staff789	phòng đẹp	<a href="#">View</a> <a href="#">Delete</a>
62dd0b82d2f7998db5dfd788	Đà Nẵng	Resort	100	\$900	haphong9	Resort more modern	<a href="#">View</a> <a href="#">Delete</a>
62e01e50d17f9f9defa74c8a	Lâm Đồng	villa	2	\$100	dungtt		<a href="#">View</a> <a href="#">Delete</a>

### Step 3: Make changes

Jade Hill HomeStays

Search...

English

1

2

admin

MAIN

Dashboard

LISTS

Users

Homestays

Services

Statistics Customer

USEFUL

Stats

Notifications

SERVICE

System Health

Logs

Settings

USER

Profile

Logout

Update Room

←

Room ID

62b372adea906ef71d53e5f7

Type of room \*

Manager

Max people

9

Cost(1 day)

100

Other information

test

UPDATE

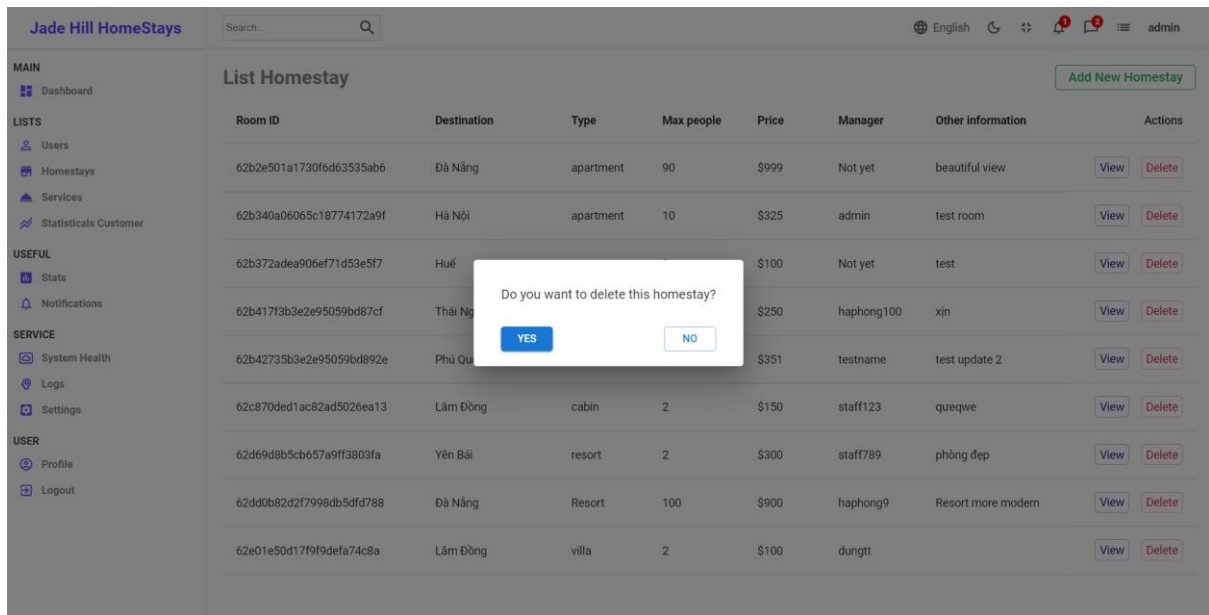
### Step 4: Click “Update” button

#### 3.2.2. Delete room

Step 1: Click “Homestay” feature

Step 2: Click “Delete”

Step 3: Confirm delete



### 3.2.3. Add new room

Step 1: Choose “Homestayss” feature

Step 2: Click “Add new Homestay” button

Step 3: Fill in data

The screenshot shows the 'Add Homestay' page in the Jade Hill HomeStays dashboard. The form has the following fields:

- Destination \*
- Manager room \*
- Type of room \*
- Max people \*
- Cost \*
- Other information

A 'CREATE ROOM' button is located at the bottom of the form.

Step 4: Click “CREATE ROOM” button

### 3.2.4. Add new Destination

Step 1: Choose “Homestays” feature

Step 2: Click “Add new Homestay” button

Step 3: Select “Add new Location”

Step 4: Fill in data

**Jade Hill HomeStays** Search... English

**MAIN**  
Dashboard

**LISTS**  
Users  
Homestays  
Services  
Statistics Customer

**USEFUL**  
Stats  
Notifications

**SERVICE**  
System Health  
Logs  
Settings

**USER**  
Profile  
Logout

### Add Homestay

ADD NEW ROOM ADD NEW LOCATION

Location name \*

Address \*

More detail

CREATE LOCATION

Step 5: Click “CREATE LOCATION” button

### 3.3. Manage services

#### 3.3.1. Update services

Step 1: Choose “Services” feature

Step 2: Select “View” of one service

Step 3: Fill in data

**Jade Hill HomeStays** Search... English

**MAIN**  
Dashboard

**LISTS**  
Users  
Homestays  
Services  
Statistics Customer

**USEFUL**  
Stats  
Notifications

**SERVICE**  
System Health  
Logs  
Settings

**USER**  
Profile  
Logout

### Update Service

Service ID

Service name \*

Cost \*

More detail

UPDATE

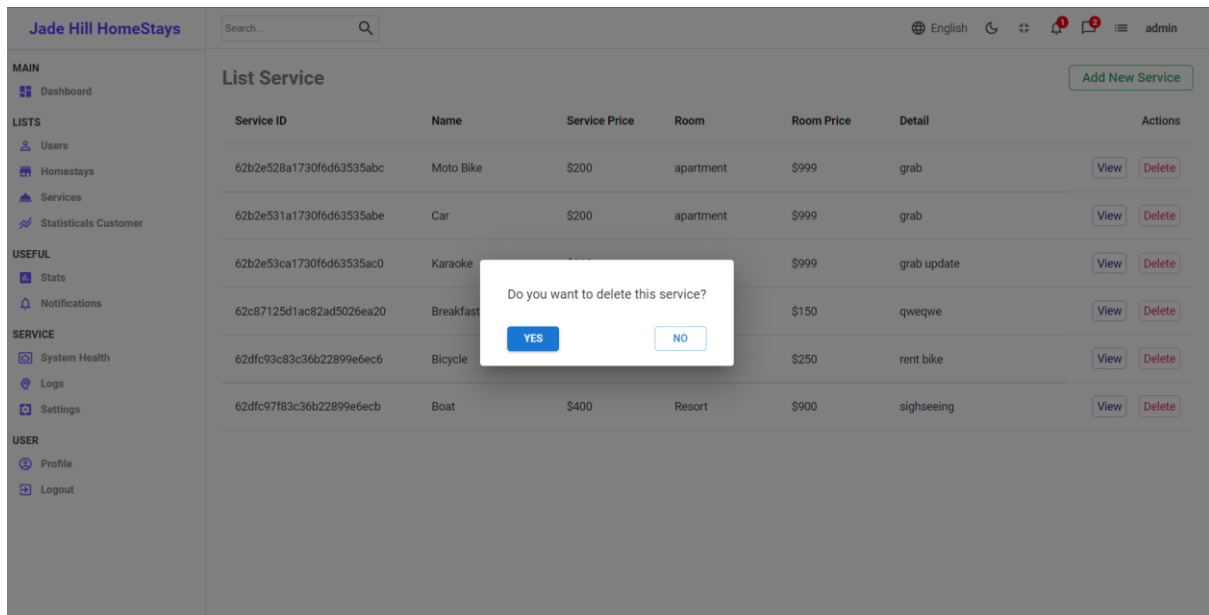
Step 4: Click “Update”

#### 3.3.2. Delete services

Step 1: Choose “Services” feature

Step 2: Click “Delete” of service that need to delete

Step 3: Confirm delete



### 3.3.3. Add new services

Step 1: Choose “Services” feature

Step 2: Select “Add new Service”

Step 3: Fill in data

**Add Service**

Service name \*

Room \*

Cost \*

More detail

[CREATE SERVICE](#)

### 3.4. Revenue statistics

Select “Statisticals Customer”, and then the order history and total revenue is displayed chronologically

Jade Hill HomeStays

Search...

🔍

English

🌐

🔔

👤

admin

MAIN

Dashboard

LISTS

Users

Homestays

Services

Statisticals Customer

USEFUL

Stats

Notifications

SERVICE

System Health

Logs

Settings

USER

Profile

Logout

List Customer

62c870ded1ac82ad5026ea13	Lâm Đồng	Bui Thuan	nauhtdz@gmail.com	0834720052	cabin	\$150	Choose date	Choose date
62b417f3b3e2e95059bd87cf	Thái Nguyên	Bui Thuan	nauhtdz@gmail.com	0834720052	villa	\$250	Choose date	Choose date
62b2e501a1730f6d63535ab6	Đà Nẵng	Ha Duong	tamkaja@gmail.com	09827774212	cabin	\$101	2022-07-26	2022-07-27
62b417f3b3e2e95059bd87cf	Thái Nguyên	Bui Thuan	nauhtdz@gmail.com	0834720052	villa	\$325	Choose date	Choose date
62b417f3b3e2e95059bd87cf	Thái Nguyên	Bui Thuan	nauhtdz@gmail.com	0834720052	villa	\$325	Choose date	Choose date
62b2e501a1730f6d63535ab6	Đà Nẵng	min	soiceufazoiippe-7229@yopmail.com	0245112451	cabin	\$999	Choose date	Choose date
62b340a06065c18774172a9f	Hà Nội	min	soiceufazoiippe-7229@yopmail.com	0245112451	apartment	\$650	2022-07-24	2022-07-26
62d69d8b5cb657a9ff3803fa	Yên Bái	Bui Thuan	nauhtdz@gmail.com	0834720052	hotel	\$300	2022-07-25	Choose date
62d69d8b5cb657a9ff3803fa	Yên Bái	Dinh Huu Dai	dai.dh2k1@gmail.com	0366422438	hotel	\$300	Choose date	Choose date
62b2e501a1730f6d63535ab6	Đà Nẵng	Tran Tan Dung	tandung10x1998@gmail.com	0347454123	cabin	\$999	Choose date	Choose date
62b372adea906ef71d53e5f7	Huế	dungtt	dung.tt194746@sis.hust.edu.vn	1234567890	apartment	\$300	2022-07-27	2022-07-30
Total revenue: \$11725								

Admin can modify time come and leave of all orders by clicking on the date:

Time come	Time leave
2022-07-25	2022-07-28
2022-07-25	2022-07-29
2022-07-24	26 - Jul - 2021