

# KMITL Residence

Group#8

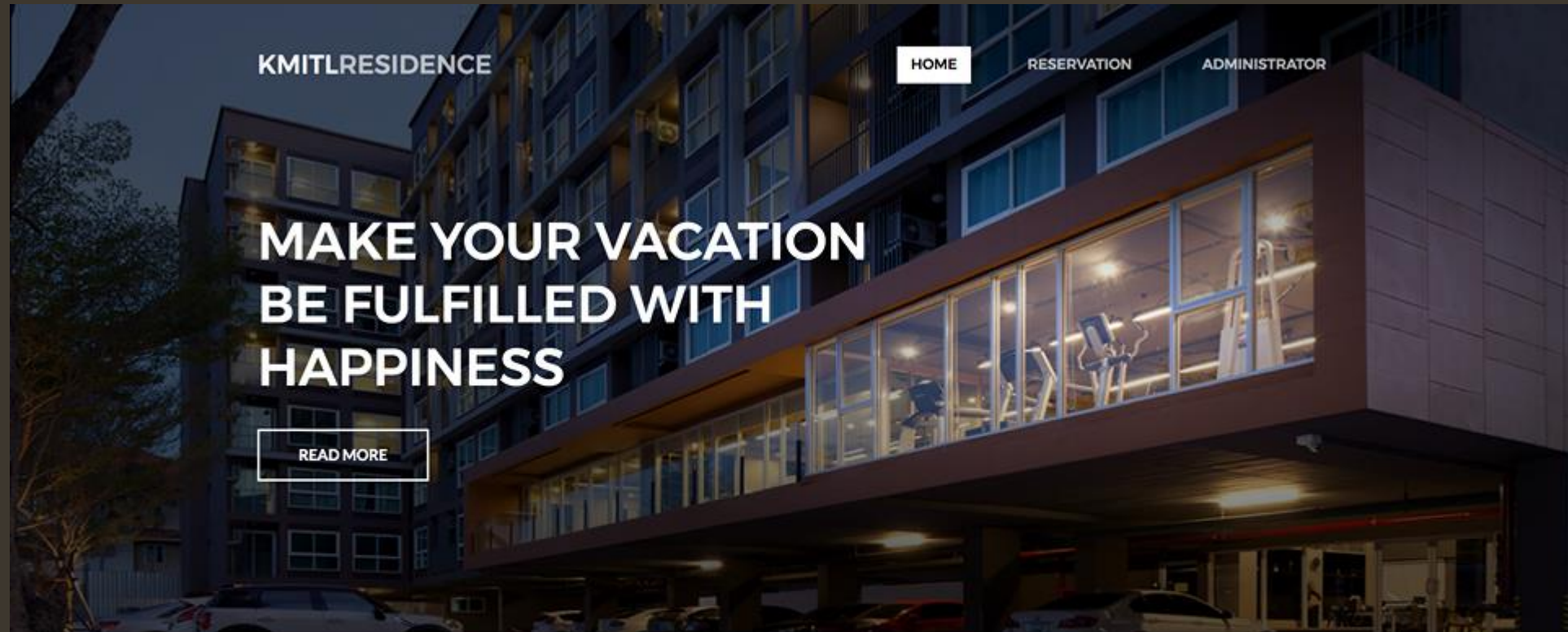


# Flow 1: Reservation

UI: Check Availability



# UI: Check Availability



KMITLRIDENCE

HOME

RESERVATION

ADMINISTRATOR

MAKE YOUR VACATION  
BE FULFILLED WITH  
HAPPINESS

READ MORE

## Check Availability

Enter staying information

Check-in date



Choose check-in date

Check-out date



Choose check-in date

Adults

1



Children

0



Check Availability

# UI: Check Availability

KMITLRSIDENCE

HOME

RESERVATION

ADMINISTRATOR

1 Check Availability

2 Choose Room Type

3 Personal Information

4 Payment Information

5 Validation

Check Availability

Enter staying information

Check-in date

Check-out date

Adults

Children

Check Availability

Choose check-in date

Choose check-in date

1

0

<

April 2017

>

S	M	T	W	T	F	S
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

# Flow 1: Reservation

UI: Check Availability



Reservation Service

API: availableSearch

- checkin
- checkout
- adult



Table: reservation

```
GET /reservation/availableSearch?checkin=2017-01-01&checkout=2017-01-02&adults=1&children=0
```

Response

```
{  
  "roomType": 1,  
  "total": 1  
}
```

# Flow 1: Reservation

Reservation Service

API: availableSearch



Room Service

API: type



Table: room\_type

```
GET /rooms/type/{room_type_id}
```

Response

```
{
  "typeId": 1,
  "typeTotalRooms": 60,
  "typeAdultLimit": 4,
  "typeChildrenLimit": 4,
  "typeDetailsTh": "ข้อมูลประเภทห้องภาษาไทย",
  "typeDetailsEn": "room type details in english",
  "typePrice": 2800,
  "typeNameTh": "ห้องหรู",
  "typeNameEn": "Deluxe"
}
```

# UI: Choose Room Type



Check  
Availability

2

Choose Room  
Type

3

Personal  
Information

4

Payment  
Information

5

Validation

## Choose Room Type

Choose the type of room



### Deluxe Room

Extra spacious king size bed, feather pillows, full set of toiletries in marble bathroom and separate shower, free local newspapers, reading chairs, work area, LED TV, hair dryer. It is suited for 1 family of up to 4 adults and 4 children + 1 extra bed.

Price : 2,800.00 THB

Night : 3

+ Book for 8,400.00 THB



### Premiere Room

A unique experience combining relaxation and meditation. This Premier room will make you feel like a king. Maximum occupancy is 2 adults and 1 child without extra bed.

Price : 4,500.00 THB

Night : 3

+ Book for 13,500.00 THB



### Suite Room

An unforgettable experience! Large and greatly designed suite room. There is a separate lounge and bathroom. Equipped with modern amenities such as sofa (2 sofas). Maximum occupancy is 2 adults, no extra bed.

Price : 5,600.00 THB

Night : 3

+ Book for 16,800.00 THB

# UI: Personal Information

✓ Check Availability

✓ Choose Room Type

3 Personal Information

4 Payment Information

5 Validation

### Basic Information

Enter your personal information

Name

Mr. ▼

sirirach

junta

Nationality

Thai ▼

Country

Thailand ▼

E-mail

madooding@yahoo.co.th

Phone Number

084707312

Next



# UI: Payment Information

✓ Check Availability

✓ Choose Room Type

✓ Personal Information

4 Payment Information

5 Validation

## Payment Information

Enter your payment information

Card type

Card Number

CVC

Visa

4929 4047 8672 0239

123

Card Holder's Name

Expiration

Sirirach Junta

October 2020

Next

# UI: Validation 1

## Validation

Please make sure that your reservation information is valid

### Personal Information

Name	Mr. Sirirach Junta
E-mail	madooding@yahoo.co.th
Phone Number	084707312
Nation	thai
Country	TH

### Payment Information

Credit Card ID	4929 4047 8672 0239
Card Type	Visa
CVC	123
Card Holder	Sirirach Junta
Card Expiration	10/2020

### Staying Information

# UI: Validation 2

Country	TH
---------	----

## Payment Information

Credit Card ID	4929 4047 8672 0239
Card Type	Visa
CVC	123
Card Holder	Sirirach Junta
Card Expiration	10/2020

## Staying Information

Room Type	Premiere Room
Price	4,500.00 THB / Night
Occupancy	1 adults, 0 children
Check-In Date	05-04-2017
Check-Out Date	08-04-2017
Nights	3
Total Price	13,500.00 THB

Book room!

# Flow 1: Reservation

UI: Validation



Reservation Service

API: add

Table: reservation

POST /reservation/add

Request JSON

```
{
  "checkIn": "2017-01-01",
  "checkOut": "2017-01-12",
  "adults": 1,
  "children": 1,
  "roomType": 2,
  "customer": {
    "titleName": "Mr.",
    "fullName": "Adisorn Sripakpaisit",
    "email": "example@example.com",
    "tel": "0890938473",
    "country": "Thailand",
    "nation": "Thai"
  },
  "creditCard": {
    "number": "1234567890",
    "holderName": "Adisorn Sripakpaisit",
    "type": "Visa",
    "expiredDate": "2018-01-01",
    "cvc": "1234"
  }
}
```

# UI: Reservation Success

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HOME

RESERVATION

ADMINISTRATOR

## Reservation Success !

We have sent links for confirm and cancel the reservation to your email,  
The System would not deduct your credit until confirmation link has  
been clicked.

[Go to Homepage](#)



# Flow 1: Reservation

## Reservation Service

API: add



Email Service

API: sendmail



Table: reservation

POST /sendmail

Request JSON

```
{
  "emailType": 1,
  "destination": "example@example.com",
  "titleName": "Mr.",
  "fullName": "Software Mebug",
  "content": {
    "reservationId": 1,
    "roomType": 1,
    "checkinTime": "2017-03-30",
    "checkoutTime": "2017-03-31",
    "totalNight": 1,
    "totalPrice": 2000,
    "confirmationLink": "confirm link",
    "cancelLink": "cancel link";
  }
}
```

# UI: Reservation Confirmed

KMITLRSIDENCE

HOME

RESERVATION

ADMINISTRATOR

## The Reservation has been confirmed!

Thanks a lot for choosing our service. Our staff will provide you the best customer service you only deserve. Enjoy your day!

[Go to Homepage](#)

# UI: Reservation Cancelled

KMITLRSIDENCE

HOME

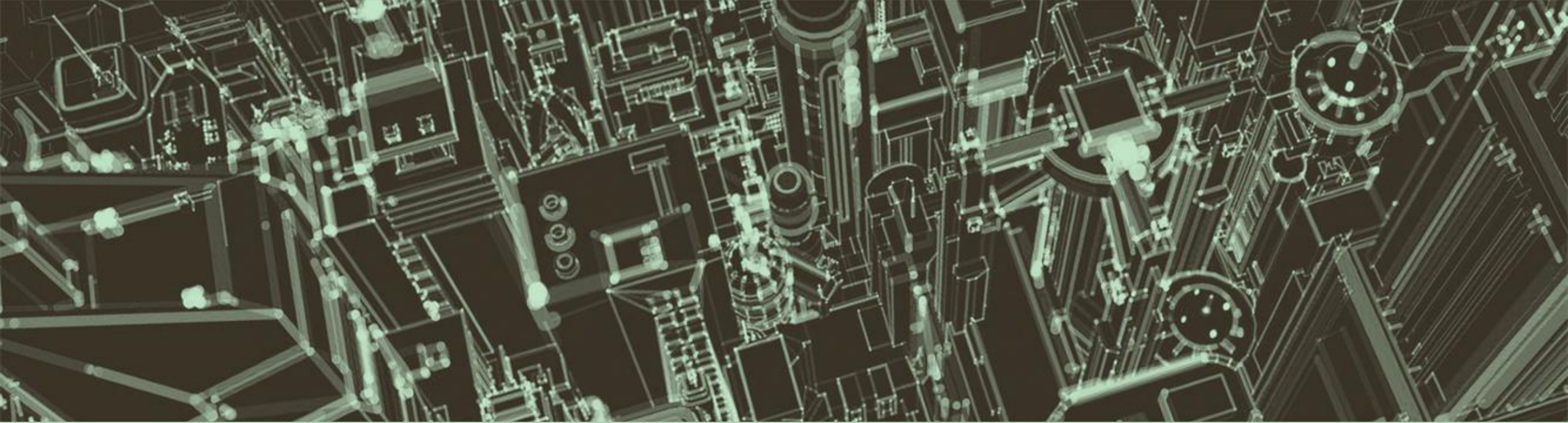
RESERVATION

ADMINISTRATOR

## The Reservation has been cancelled!

Your reservation has been cancelled, anyway, We'd love to see you again next time. Have a nice day!

[Go to Homepage](#)

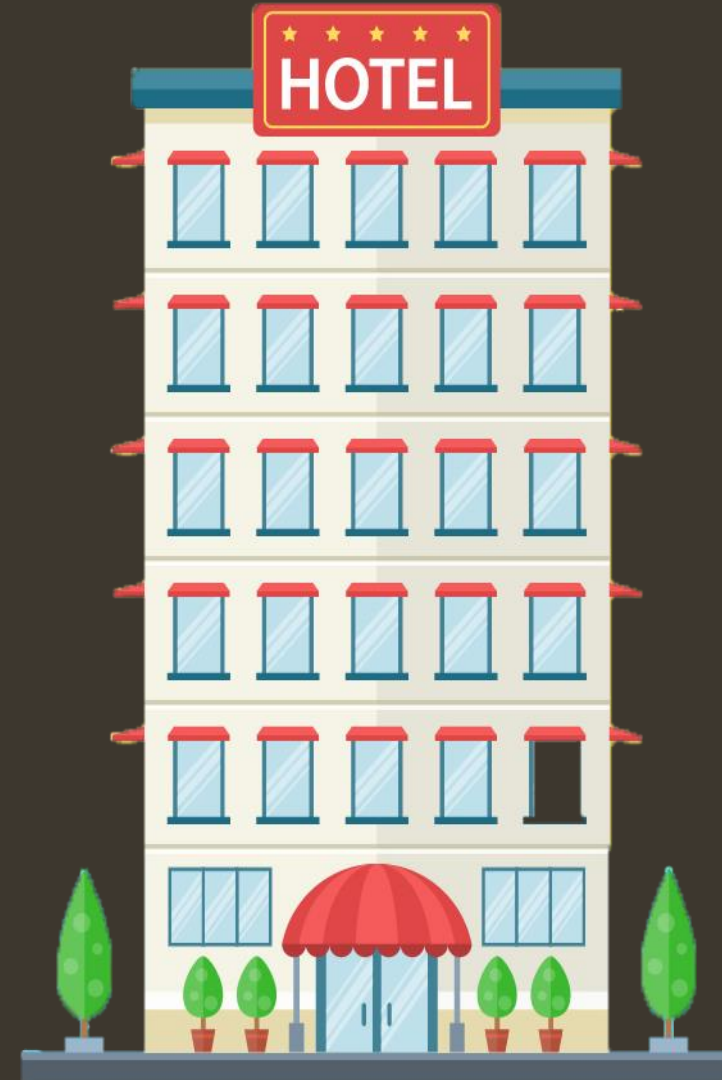


Q&A



# Agenda

1. Features
2. UI
3. Services
  - APIs
    - Endpoint name
    - Request format
    - Response format
4. Database





## Room Finding

Relax a sensational room in the best hotel of ladkrabang district.



# 1. Features

## Hotel Booking

Easily book hotel rooms at the best real-time rates.



## News

A source and distribution point for the latest news in KMITL Residence.



# 1. Features

## Online Payment

Secure online payment processing services through credit card and internet banking.



## Guest Review

More feedback with review express of KMITL Residence.



## Summary

Analyze summary transactional data by our staffs.



# 3. Services

1. Room Service
2. Reservation Service
3. Email Service
4. User Service



# 3. Services (Room Service)

```
GET /rooms/type/{room_type_id}
```

Response

```
{
  "typeId": 1,
  "typeTotalRooms": 60,
  "typeAdultLimit": 4,
  "typeChildrenLimit": 4,
  "typeDetailsTh": "ข้อมูลประเภทห้องภาษาไทย",
  "typeDetailsEn": "room type details in english",
  "typePrice": 2800,
  "typeNameTh": "ห้องหรู",
  "typeNameEn": "Deluxe"
}
```

# 3. Services (Room Service)

/rooms/types?adult=1&children=0

```
[
  {
    "typeId": 1,
    "typeTotalRooms": 60,
    "typeAdultLimit": 4,
    "typeChildrenLimit": 4,
    "typeDetailsTh": "ข้อมูลประเภทห้องพักภาษาไทย",
    "typeDetailsEn": "room type details in english",
    "typePrice": 2800,
    "typeNameTh": "",
    "typeNameEn": "Deluxe"
  },
  {
    "typeId": 2,
    "typeTotalRooms": 5,
    "typeAdultLimit": 2,
    "typeChildrenLimit": 1,
    "typeDetailsTh": "ข้อมูลประเภทห้องพักภาษาไทย",
    "typeDetailsEn": "room type details in english",
    "typePrice": 4500,
    "typeNameTh": "",
    "typeNameEn": "Premiere"
  },
  {
    "typeId": 3,
    "typeTotalRooms": 5,
    "typeAdultLimit": 2,
    "typeChildrenLimit": 0,
    "typeDetailsTh": "ข้อมูลประเภทห้องพักภาษาไทย",
    "typeDetailsEn": "room type details in english",
    "typePrice": 5600,
    "typeNameTh": "",
    "typeNameEn": "Suite"
  }
]
```



# 3. Services (Room Service)

GET /rooms/{room\_id}

Response

```
{  
  "roomId": 101,  
  "roomDetails": "",  
  "roomTypeId": 1,  
  "roomAvailability": 1  
}
```

# 3. Services (Room Service)

GET /rooms/available/{room\_type\_id}

Response

```
[
  {
    "roomId": 131,
    "roomDetails": "",
    "roomTypeId": 2,
    "roomAvailability": 1
  },
  {
    "roomId": 132,
    "roomDetails": "",
    "roomTypeId": 2,
    "roomAvailability": 1
  },
  {
    "roomId": 133,
    "roomDetails": "",
    "roomTypeId": 2,
    "roomAvailability": 1
  },
  {
    "roomId": 134,
    "roomDetails": "",
    "roomTypeId": 2,
    "roomAvailability": 1
  },
  {
    "roomId": 135,
    "roomDetails": "",
    "roomTypeId": 2,
    "roomAvailability": 1
  }
]
```

# 3. Services (Room Service)

```
/rooms/{room_id}/checkin/{reservation_id}
```

HEADER

authenticate-token: some generate token

Response

```
{  
  "message": "Success"  
}
```

```
/rooms/{room_id}/checkout/{reservation_id}
```

HEADER

authenticate-token: some generate token

Response

```
{  
  "message": "Success"  
}
```

# 3. Services (Reservation Service)

```
GET /reservation/availableSearch?checkin=2017-01-01&checkout=2017-01-02&adults=1&children=0
```

Response

```
{
  "roomType": 1,
  "total": 1
}
```

```
GET /reservation/{reservationId}
```

Response

```
{
  "id": 1,
  "checkIn": '2017-01-01',
  "checkOut": '2017-01-02',
  "total": 2,
  "roomType": 1,
  "status": "waiting|completed|cancel",
  "customer": {
    "titleName": "Mr.",
    "fullName": "Abc Def",
    "email": "example@example.com",
    "tel": "0123456789",
    "country": "Thailand",
    "nation": "Thai"
  }
}
```

# 3. Services (Reservation Service)

POST /reservation/add

Request JSON

```
{
  "checkIn": "2017-01-01",
  "checkOut": "2017-01-12",
  "adults": 1,
  "children": 1,
  "roomType": 2,
  "customer": {
    "titleName": "Mr.",
    "fullName": "Adisorn Sripakpaisit",
    "email": "example@example.com",
    "tel": "0890938473",
    "country": "Thailand",
    "nation": "Thai"
  },
  "creditCard": {
    "number": "1234567890",
    "holderName": "Adisorn Sripakpaisit",
    "type": "Visa",
    "expiredDate": "2018-01-01",
    "cvc": "1234"
  }
}
```

Response

```
{
  "id": 1,
  "message": "Success"
}
```



# 3. Services (Reservation Service)

```
PUT /reservation/{reservationId}/confirm?id=123wwdw22dsfsea
```

```
Response
{
  "id": 1,
  "message": "Success"
}
```

```
PUT /reservation/{reservationId}/cancel?id=123wwdw22dsfsea
```

```
Response
{
  "id": 1,
  "message": "Success"
}
```

```
PUT /reservation/{reservationId}/partialCheckout
```

```
Response
{
  "id": 1,
  "message": "Success"
}
```

# 3. Services (Email Service)

POST /sendmail

Request JSON

```
{
  "emailType": 1,
  "destination": "example@example.com",
  "titleName": "Mr.",
  "fullName": "Software Mebug",
  "content": {
    "reservationId": 1,
    "roomType": 1,
    "checkinTime": "2017-03-30",
    "checkoutTime": "2017-03-31",
    "totalNight": 1,
    "totalPrice": 2000,
    "confirmationLink": "confirm link",
    "cancelLink": "cancel link";
  }
}
```

# 3. Services (User Service)

POST /users/create

Request JSON

```
{
  "username": "staff001",
  "password": "passwordstaff001",
  "role": 1,
  "titleNameEn": "Mr.",
  "fullNameEn": "Adisorn Sripakpaisit",
  "titleNameTh": "นาย",
  "fullNameTh": "อติสร ศรีภักดีไพสิฐ",
  "email": "example@example.com"
}
```

Response

```
{
  "username": "staff001",
  "message": "Successfully created"
}
```

# 3. Services (User Service)

GET /user/{username}

HEADER

authenticate-token: token

Response

```
{  
  "username": "staff001",  
  "role": "Staff",  
  "fullNameTh": "นายอดิสร ศรีภักไพสิฐ",  
  "fullNameEn": "Mr.Adisorn Sripakpaisit",  
  "email": "example@example.com"  
}
```

## 3. Services (User Service)

```
DELETE /user/{username}/delete
```

Response

```
{  
  "username": "staff001",  
  "message": "Successfully Deleted"  
}
```

# 3. Services (User Service)

POST /users/authentication

Request

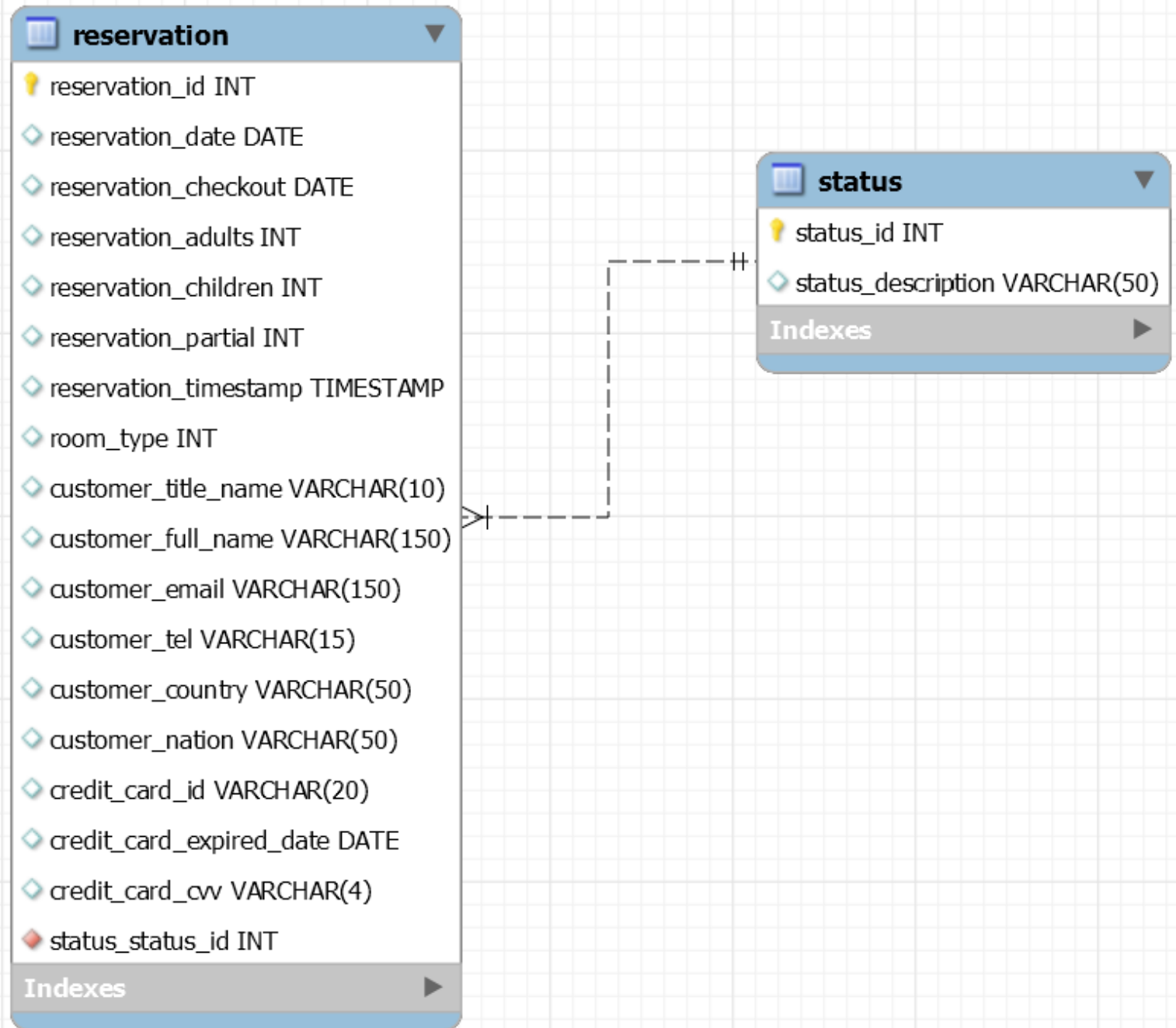
```
{  
  "username": "staff001",  
  "password": "123456"  
}
```

Response

token-generate

# 4. Database

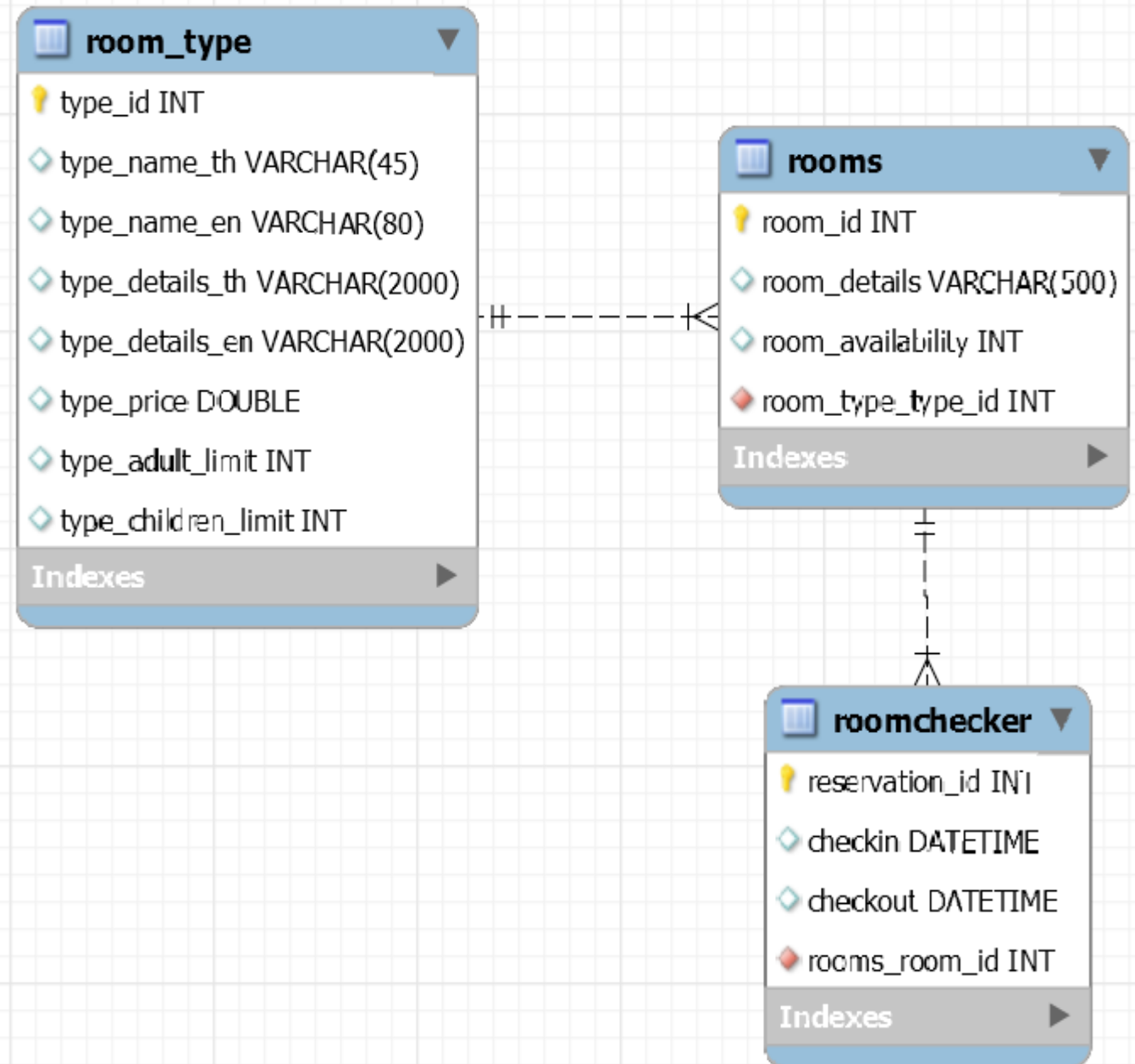
## Reservation Service





# 4. Database

## Room Service



# 4. Database

User Service

