

Holiday

Fullstack Application Exercise

- **Study Case**

"Anda merupakan seorang fullstack web developer yang ditugaskan untuk membuat sebuah project aplikasi booking hotel dimana tiap-tiap hotel memiliki lokasi serta tipe kamar yang berbeda-beda."

- **Specification**

Register

1. Username must be unique
2. Email must be valid
3. Password must be contains number and alphabet with minimum 6 character and maximum 10 character
4. Use uid as unique identifier
5. Encrypt for sensitive data

Method : ***POST***

Path : ***/users/register***

Request :

```
{
  username : 'masdefry',
  email    : 'masdefry@gmail.com',
  password : 'pwd123jcwd',
  role     : 'user'
}
```

Response :

```
{
  isError : false,
  message : "Register Success",
  data    : null
}
```

Login

1. User can login with username or email and password
2. Create feature keep login on frontend application
3. Token has expiry date

Method : *GET*

Path : */users/login?username=masdefry&password=pwd123jcwd*

Response :

```
{
  isError    : false,
  message    : "Login Success",
  data       : {
    token: "argGhT357A***"
  }
}
```

Search Hotel

1. User can search hotel by date range or location or price range
2. Show hotel that have available room only (hotel with full booked room cant be showing)

Method : *GET*

Path : */hotels/search?checkin=2022-12-01&checkout=2022-12-02*
/hotels/search?location=bandung
/hotels/search?from=300000&to=350000
/hotels/search?checkin=2022-12-01& checkout =2022-12-02&
location=bandung&from=300000&to=350000

Response :

```
[
  {
    id          : 1,
    name        : "Trans Luxury Hotel",
    location    : "Bandung",
    price       : 315000,
    totalRoomAvailable : "5 from 50",
    imageUrl    : "imageUrl"
  },
  {
    id          : 2,
    name        : "Reddoorz near Taman Sari",
    location    : "Bandung",
    price       : 305000,
    totalRoomAvailable : "1 from 20",
    imageUrl    : "imageUrl"
  },
  ... ..
]
```

Hotel Details

1. Show room available only

Method : *GET*

Path : */hotels/details/1*

Response :

```
[
  {
    id          : 1,
    name        : "Trans Luxury Hotel",
    location    : "Bandung",
    images      : ["urlImageA", "urlImageB",
                  "urlImageC"]
    rooms      : [
      {
        id      : 1
        name    : "Standart Room Twin Beds",
        price   : 315000,
        images  : ["urlImageA", "urlImageB",
                  "urlImageC"]
      },
      {
        id      : 2
        name    : "Standart Room Queen Size Beds",
        price   : 375000,
        images  : ["urlImageA", "urlImageB",
                  "urlImageC"]
      }
    ]
  }
]
```

Books Room

1. User can book more than 1 room (maximum 3 room only)
2. When transaction created, they have default status "Waiting for Payment"
3. Change transaction status to be "Expired" when user does not immediately make a payment (Expired transaction is 1 hours)

Method : *Post*

Path : */hotels/book*

Request :

```
{
  hotel_name      : "Trans Luxury Hotel",
  room_name       : "Standart Room Twin Beds",
  total_room      : 2
  total_price     : 630000
}
```

Response :

```
{
  id              : 1
  hotel_name      : "Trans Luxury Hotel",
  room_name       : "Standart Room Twin Beds",
  total_room      : 2,
  total_price     : 630000,
  expired_date    : "2022-12-20 16:00"
  status          : "Waiting for Payment"
}
```