

Coding Challenge JCWD-2302

- **Study Case**

"Anda merupakan seorang backend web developer yang ditugaskan untuk membuat sebuah project aplikasi booking tiket bus/travel, dimana setiap armada bus/travel memiliki jumlah seat dan rute 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. Hashing users password

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
3. Token has expiry date

Method : *GET*

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

Response :

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

Search Bus or Travel

1. User can search bus/travel by rute only or rute and date

Method : *GET*

Path : */bus/search? date=2023-01-10&from=Tangerang%Selatan&to=Bandung*

Response :

```
[
  {
    id          : 1,
    bus         : "Daytrans",
    from        : "Tangerang Selatan",
    to          : "Bandung",
    price       : "145000",
    totalSeat   : 18
    seatAvailable : 15
  },
  {
    id          : 2,
    bus         : "Holiday Trans",
    from        : "Tangerang Selatan",
    to          : "Bandung",
    price       : "155000",
    totalSeat   : 18
    seatAvailable : 18
  },
  ... ..
]
```

Bus/Travel Details

Method : *GET*
Path : */bus/details/1*
Response :

```
[
  {
    id          : 1,
    bus         : "Daytrans",
    from        : "Tangerang Selatan",
    to          : "Bandung",
    price       : "145000",
    totalSeat   : 18,
    seatAvailable : 15,
    seatBooked  : "1A, 3B, 3C"
  }
]
```

Books Seat

1. User can book more than 1 seat (maximum 3 seat 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 : */bus/book*
Request :

```
Headers : {  
  auth : "argGhT357A****"  
}  
  
Body : {  
  travel_name : "Daytrans",  
  total_seat : 2,  
  seat_number : "4A, 4B",  
  total_price : 290000  
}
```

Response :

```
{  
  id : 1,  
  travel_name : "Daytrans",  
  total_seat : 2,  
  seat_number : "4A, 4B",  
  total_price : 290000,  
  expired_date : "2023-01-16 22:00:00",  
  status : "Waiting for Payment"  
}
```

Payment

1. User can upload payment proof
2. Change transaction status to be "Paid" if payment proof upload success
3. Send Invoice Transaction to users email