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Devoir API LPDW 2020

Option A

Installation

1. git clone https://github.com/sheresade/apiRequest/
2. npm install
3. npm run start:dev

Servers

- http://localhost:3000/explorer

Resources /flights

GET

Feature : Flight's list

Description : Give the flight's list corresponding to the given parameters.

Endpoint: GET /flights?depart={depart}&destination={destination}

Scenarios :

- If user don't put any parameters.

    o **GET** /flights
    o **Answer 200 :** We recover every flights.
- If user put parameters.

    o He puts a city that doesn't exist.

        ▪ **GET** /flights?depart=Disneyland&destination=Atlantide
        ▪ **Answer 200 :** with an empty list
    o He puts a city that has no airport.

        ▪ **GET** /flights?depart=New York&destination=Gennevillers
        ▪ **Answer 200 :** with an empty list
    o He doesn't put one of the research parameters.
        ▪ **GET** /flights?depart=&destination=Paris
        ▪ **Answer 400**

POST

Feature : Create a flight

Endpoint : POST /flights

Description : Mandatory datas to represent the flight are :

- flightNumber
- Company
- Departure
- Destination
- Date
- status (optional)

Scenarios

- Every mandatory data are filled.

  - **POST** /flights
  - **Answer 201 :** Flight created
- One or several data are missing.

  - **Answer 400 :** bad request
- Flight duplication

  - **Answer 409 :** conflict
- User is not connected

  - **PUT** /booking/1
  - **Answer 401 :** Missing authorization header
- User doesn't have rights

  - **PUT** /booking/1
  - **Answer 403 :** User has not rights to execute this feature

GET specific

Feature : Display a specific flight by his flightnumber.

Endpoint : GET /flights/:flightNumber

Description : Display a specific flight in detail.

Scenarios

- Flight number exist.

  - **GET** flight/421337
  - **Answer 200 :** Flight recovery

- Flight number doesn't exist.

    o **GET** /flight/00000

    o **Answer 404 :** not found

PUT

Feature : Allow to modify the date and status.
Endpoint : PUT /flights/:flightNumber
Description : Editable data are :

- Date

- Status

Scenarios

- The flight exist and data is valid.

    o **PUT** flight/421337

    o **Answer 200 :** Flight edited

- The date filled doesn't exist. (31/02/2020)

    o **Answer 400 :** bad request

Status doesn't correspond no to READY nor to CANCELED.

    o **Answer 400 :** bad request

- Flight doesn't exist.

    o **PUT** flight/00000
    o **Answer 404**
- User is not connected.

    o **PUT** /booking/1
    o **Answer 401 :** Missing authorization header
- User has not rights.

    o **PUT** /booking/1
    o **Answer 403 :** User has not rights to execute this feature

DELETE

Feature : Delete this flight.
Endpoint : DELETE /flights/:flightNumber

Scenarios

- Le vol existe et est supprimé

  - **DELETE** /flight/421337
  - **Answer 204**
- Flight doesn't exist

  - **DELETE** /flight/00000
  - **Answer 404**
- User is not connected.

  - **PUT** /booking/1
  - **Answer 401 :** Missing authorization header
- User has no rights.

  - **PUT** /booking/1
  - **Answer 403 :** User has not rights to execute this feature

Resource /booking

GET

Feature : Booking list.
Description : Display the booking list corresponding to the selected parameter.
Endpoint: GET /booking?passengerName={name}

Scenarios

- Si l'utilisateur ne met pas de paramètres

  - **GET** /booking

  - **Answer 200 :** we recover every flights.

- If user put parameters.

  - He puts a passenger that doesn't exist.

    - **GET** GET /booking?passengerName=SDIGUSD
    - **Answer 200 :** with an empty list
  - He doesn't put any research parameters.

    - **GET** GET /booking?passengerName=
    - **Answer 400 :** Because research parameters are mandatory.

GET

Feature : Display a specific reservation depending of his booking number
Description : Display a specific reservation in detail.
Endpoint: GET /booking/:bookingNumber

Scenarios

- Booking reservation doesn't exist.

    o **GET** /booking/EFOJN

    o **Answer 404 :** not found

- **Number is incorrect**

    o **GET** /booking/1
    o **Answer 200 :** avec une liste vide

POST

Feature : Create a reservation Endpoint : POST /booking

 Description : Mandatory data to select a reservation are :

- bookingNumber
- seatNumber
- class
- flight
- PassengerName

Scenarios

- Every mandatory data are filled.

    o **POST** /booking

    o **Answer 201 :** Object is created in the Data base.

- One or several data are missing.

    o **POST** /booking

    o **Answer 400 :** bad request

- Booking Duplication

    o **POST** /booking

- o **Answer 409 :** Request has a conflict with the actual server status.
  - Booking doesn't exist.
    - o **POST** /booking
    - o **Answer 404 :** The corresponding booking doesn't exist.
  - The user is not connected.
    - o **PUT** /booking/1
    - o **Answer 401 :** Missing authorization header
  - The user has no rights.
    - o **PUT** /booking/1
    - o **Answer 403 :** User has not rights to execute this feature

PUT

Feature : Edit a reservation Endpoint : POST /booking/:bookingNumber

Description : Following data can be modified :

- seatNumber
- class

Scenarios

- Data to modify are valid and correct
  - o **PUT** /booking/1
  - o **Answer 200**
- Data to modify are not valid/ incorrect
  - o **PUT** /booking/1
  - o **Answer 400**
- The user is not connected.
  - o **PUT** /booking/1
  - o **Answer 401 :** Missing authorization header
- The user has no rights.
  - o **PUT** /booking/1
  - o **Answer 403 :** User has not rights to execute this feature

- ▪ The booking with this login doesn't exist.

    - o **POST** /booking/2FEUB2

    - o **Answer 404 :** not found

DELETE

Feature : Edit a reservation Endpoint : POST /booking/:bookingNumber

Scenarios

- ▪ **Reservation found**

    - o **POST** /booking/1

    - o **Answer 200**

- ▪ The user is not connected

    - o **PUT** /booking/1

    - o **Answer 401 :** Missing authorization header

- ▪ Reservation is not found.

    - o **PUT** /booking/2FEUB2

    - o **Answer 404 :** booking not found

- ▪ The user has no rights.

    - o **PUT** /booking/1

    - o **Answer 403 :** User has not rights to execute this feature