**BED CA1 Documentation**

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# Installation

* Open the zip and extract all the files
* Copy the db\_init.sql and run it on SQL query on Workbench
* In databaseConfig.js, change the password to your password that is used on workbench
* Run `npm install` to install all required node packages.
* Run `node server.js ` on your terminal.
* Refer to README.md for more information about the code

# Database Schema Design

A picture containing diagram

Description automatically generated

# Webservice Validation

## Endpoint 1 - POST /users

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

For the profile\_pic\_url, if no file is provided, it would give a default profile picture, ‘./img/default.png’.

The file will be moved and stored in the /img directory while creating and storing a link on the SQL database.

Error Response(s)

**Condition: The new username OR new email provided already exists**

Code: 422 Unprocessable Entity

A screenshot of a computer

Description automatically generated with medium confidence

**Condition: Input file is not a jpg or png image below 1MB**

Code: 400 Bad Request

**A screenshot of a computer

Description automatically generated with medium confidence**

**Unknown Error**

Code: 500 Internal Server Error

A screenshot of a computer

Description automatically generated with medium confidence

## Endpoint 2 - GET /users

Success Response

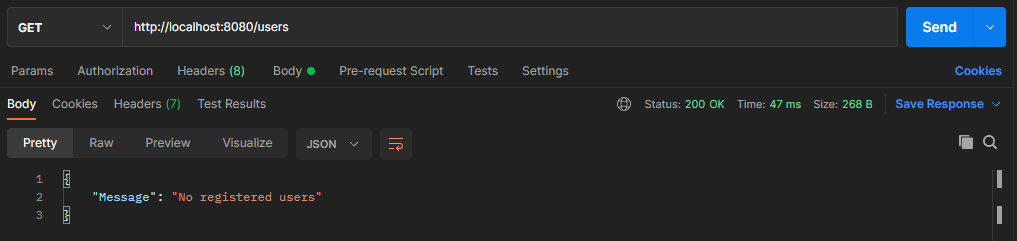
Text

Description automatically generated

Error Response(s)

**Condition: No users within the database**

Code: 200 OK (the reason is that the database is functional)



**Unknown Error**

Code: 500 Internal Server Error

A screenshot of a computer

Description automatically generated with medium confidence

## Endpoint 3 - GET /users/:id

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Condition: User not found in database**

Code: 404 Not Found

A screenshot of a computer

Description automatically generated with medium confidence

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text, application

Description automatically generated

## Endpoint 4 - PUT /users/:id

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Condition: User not in database**

Code: 404 Not Found

Graphical user interface, text, application

Description automatically generated

**Condition: The new username OR new email provided already exists.**

**(Additional Condition: If user\_id != 1 AND role = Admin)**

Code: 422 Unprocessable Entity

Graphical user interface, text, application

Description automatically generated

**Unknown Error**

Code: 500 Internal Server Error

A screenshot of a computer

Description automatically generated with medium confidence

## Endpoint 5 - POST /airport

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Condition: The airport name provided already exists**

Code: 422 Unprocessable Entity

A screenshot of a computer

Description automatically generated with medium confidence

**Unknown Error**

Code: 500 Internal Server Error

A screenshot of a computer

Description automatically generated with medium confidence

## Endpoint 6 - GET /airport

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Unknown Error**

Code: 500 Internal Error

Graphical user interface, text, application

Description automatically generated

## Endpoint 7 - POST /flight

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Unknown Error**

Code: 500 Internal Error

Graphical user interface, text, application

Description automatically generated

## Endpoint 8 - GET /flightDirect/:originAirportId/:destinationAirportId

Success Response

Text

Description automatically generated

Error Response(s)

**Condition: No flights for the given flight directions**

Code: 404 Not Found

Graphical user interface, text, application

Description automatically generated

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text, application

Description automatically generated

## Endpoint 9 - POST /booking/:userid/:flighted

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text

Description automatically generated

## Endpoint 10 - DELETE /flight/:id

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

A screenshot of a computer

Description automatically generated with medium confidence

## Endpoint 11 - GET /transfer/flight/:originAirportId/:destinationAirportId

Success Response

Graphical user interface, text

Description automatically generated

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text, application

Description automatically generated

# Advanced Features

## File Uploading and Storage

* Imported express-fileupload for image uploading.
* Image.js contained the checker to only allow **jpg** OR **png** with a 1MB file size limit.
* All uploaded pictures are stored and can be viewed inside the ‘img’ folder included the submission.
* For file uploading and storage, it has been integrated into the POST and PUT for /users. Please refer to Endpoint 1 – POST /users and Endpoint 4 – PUT /users/:id for their respective success and error responses.

## Promotion Endpoints

## Endpoint 12 - POST /promotion

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Condition: Promotion already exist in database**

Code: 422 Unprocessable Entity

A screenshot of a computer

Description automatically generated with medium confidence

**Condition: Start Date is after End Date**

Code: 400 Bad Request

A screenshot of a computer

Description automatically generated with medium confidence

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text, application

Description automatically generated

## Endpoint 13 - GET /promotion

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Promotions are arranged in order from the upcoming promotion to the last inputted promotion

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text

Description automatically generated

## Endpoint 14 - DELETE /promotion/:id

Success Response

A screenshot of a computer screen

Description automatically generated with medium confidence

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text, application

Description automatically generated

## Endpoint 15 - GET /promotion/flight/:flighted

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

A screenshot of a computer

Description automatically generated with medium confidence

## Endpoint 16 - POST /promotion/:promotionid/flight/:flighted

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Condition: Promotion is already in database**

Code: 422 Unprocessable Entity

A screenshot of a computer

Description automatically generated with medium confidence

**Condition: Flight not within promotional period**

Code: 400 Bad Request

Graphical user interface, text, application

Description automatically generated

**Unknown Error**

Code: 500 Internal Server Error

**Graphical user interface, text, application

Description automatically generated**

## Endpoint 17 - DELETE /promotion/flight/:flighted

Success Response

Graphical user interface, text, application

Description automatically generated

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text, application

Description automatically generated

## Review Endpoints

## Endpoint 18 - POST /review/:flightid/:userid

Success Response

A screenshot of a computer

Description automatically generated

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

A screenshot of a computer

Description automatically generated with medium confidence

## Endpoint 19 - GET /review/:flightid

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Condition: No reviews**

Code: 404 Not Found

A screenshot of a computer

Description automatically generated with medium confidence

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text

Description automatically generated

## Additional Endpoints

I added some additional endpoints for quality-of-life when moving to a website, such as get all flights, where the user can search for a list of all available flights’ w/o any filters.

## Endpoint 20 - GET /flight (all flights)

Success Response

A screenshot of a computer

Description automatically generated with medium confidence

Error Response(s)

**Unknown Error**

Code: 500 Internal Server Error

Graphical user interface, text

Description automatically generated