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Semester & Academic Year: **2B / 2022 - 23**

Module Code: **ST0503**

Module Name: **Back-end Web Development**

Assessment: **Assignment 1 Documentation**

Class: **DISM/FT/2B/21**

Project Focus:

**The API specs would support functionalities such as user registration, publication of product info, insertion of products and user reviews.**

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# API Documentation Modifications

## User

### ENDPOINT: POST /api/register

Added this new endpoint to allow users to add to the users database by registering

### ENDPOINT: POST /api/login

Added this new endpoint to allow users to match email and password and receive a token and userid in the local storage

### ENDPOINT: PUT /api/user/admin/edit/:userid

Endpoint for an admin to edit user information on the admin panel

### ENDPOINT: POST /api/user/:userid/profile\_pic

Endpoint for a user to upload a new profile picture and used to store that picture into the servers

## Airport

### ENDPOINT: PUT /api/airport/put/:airportid

Endpoint for an admin to update airport information using the airport id

### ENDPOINT: DELETE /api/airport/delete/:airportid

Endpoint for an admin to delete an airport using the airportid

## Flights

### ENDPOINT: GET /api/flights/:originAirport/:destinationAirport/:departDate/:returnDate/:type

Endpoint for getting the flight information based on origin airport, destination airport, depart date, return date and type.

### ENDPOINT: GET /api/flights/returnonly/:originAirport/:destinationAirport/:departDate/:returnDate/:type

Endpoint for getting the flight information same as 1.3.1, but only returning the return flights

### ENDPOINT: PUT /api/flights/put/:flighted

Endpoint for an admin to edit flight information

### ENDPOINT: PUT /api/flights/flightseatpic/post/:flighted

Endpoint for an admin to post the flight seats for each flights

### ENDPOINT: DELETE /api/flights/delete/:flighted

Endpoint for an admin to delete flights

## Shoppingcart

### ENDPOINT: POST /api/shoppingcart/:userid/:flighted

Endpoint for a user to store their shoppingcart in a database so that the data will not be lost when a user refreshes or goes to another website

### ENDPOINT: GET /api/shoppingcart/:userid

Endpoint for a user to get their shoppingcart which is stored in a database

### ENDPOINT: POST /api/shoppingcart/del/:shoppingcartid

Endpoint to delete the user’s shoppingcart when the user finishes payment to free up space for the database

## Booking

### ENDPOINT: POST /api/booking/:userid/:flighted

Endpoint for a user to store booking details so that they are able to check what flights they booked

### ENDPOINT: GET /api/getbooking/:userid

Endpoints for a user to get their booking information to be able to view them

## Promotion

### ENDPOINT: PUT /api/promotions/cart/update/:cartid

Endpoint for a user to be able to apply the promotion discount to the price of the flight

### ENDPOINT: POST /api/promotions/post

Endpoint for an admin to be able to add new promotions in the admin panel

### ENDPOINT: GET /api/promotions/get

Endpoint for a user to get all the promotions to display on the index page so that users can search for specific flight promotions

### ENDPOINT: DELETE /api/promotions/delete/:promotionid

Endpoint for an admin to delete promotion entries in the admin panel

### ENDPOINT: GET /api/promotions/promocode/:promotioncode

Endpoint for a user to apply their promotions for the flights based on promotion codes

### ENDPOINT: GET /api/promotions/promocode

Endpoint for a user to apply their promotion codes, this endpoint checks if the promocode the user entered is valid

### ENDPOINT: POST /api/promotiontnsf/post

Endpoint for linking the promotions and flight tables based on the promotion id and flight id

### ENDPOINT: GET /api/promotiontnsf/get/:flightid

Endpoint for a user to get all flights with the flight id that was provided

### ENDPOINT: GET /api/promotiontnsf/get

Endpoint to get the whole promotion transfer table

### ENDPOINT: PUT /api/promotiontnsf/update/:promotionid

Endpoint for an admin to edit promotions in the admin panel

### ENDPOINT: PUT /api/promotiontnsf/update/:promotiontnsfid

Endpoint for an admin to edit promotions transfers in the admin panel

# Website features

## Persistent login and logout

## Register User

## Search flights by origin airport, destination airport, departure date, return date. (General Public)

## View flight details

## View profile information for registered members

## Add new flights for admin

## Add new airports for admin

## JWT check for necessary endpoints

## Uploading and displaying image for profile and flight seats

## Add and search promotions for flights

## Shopping cart functionality

## Book flights and check out with payment details

## Edit existing user information for admin

## Edit and delete existing flight information for admin

## Delete existing promotions for admin

## Add new airports for admin

## Add new promotions for admin

## Add new flights for admin

# Example data

## Admin user

Email: diablo@gmail.com

Password: 123456

## Normal user

Email: johntan@gmail.com

Password: Johntan1234

## Example search flights query data

Return:

Origin Airport: Changi International Airport

Destination Airport: Kuala Lumpur Airport

Departure Date: 22/08/2022

Return Date: 24/08/2022

One-way:

Origin Airport: Changi International Airport

Destination Airport: Kuala Lumpur Airport

Departure Date: 22/08/2022