**A picture containing text, clipart

Description automatically generated**

**ASSIGNMENT 1 DOCUMENTATION**

BACKEND WEB

DEVELOPMENT

(ST0503)

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DISM/FT/2A/02

# Testing API

The following section will contain screenshots in Postman, testing all the endpoints in the API.

Note that in endpoints containing data in the request body, JSON or Form URL Encoded is supported. However, to prevent repetitiveness, the following tests will only use JSON.

## Basic Features Endpoints

### Endpoint 1 - POST /users

Creating the user (passwords are hashed with Argon)

Graphical user interface, text, application, email

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User already exists

Graphical user interface, text, application, email, Teams

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### Endpoint 2 - GET /users

Finding all users

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### Endpoint 3 - GET /users/:id

Finding user by id

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User not found

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### Endpoint 4 - PUT /users

Put is an idempotent action. This means that a put request to the same resource should return the same response.

When PUT is requested on a user that does not exist yet, it creates the user like POST /users

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Graphical user interface, text, application, email

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Graphical user interface, text, application, email

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The same PUT request at that endpoint will still give the same 204 response and update the user with the request body, unless the username, email or contact is already registered by another user

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### Endpoint 5 - POST /airport

Adding an airport

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Airport already exists

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### Endpoint 6 - GET /airport

Finding all airports

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### Endpoint - 7 POST /flight

Adding a flight

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

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

Adding a booking

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### Endpoint 10 - DELETE /flight/:id

Current flight and bookings

Graphical user interface, application, table

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Table

Description automatically generated

After making DELETE request

Graphical user interface, text, application

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Graphical user interface, text, application, chat or text message

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Graphical user interface, text, application

Description automatically generated

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

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### Request Validation

Majority of the endpoints have validation implementations using [yup](https://github.com/jquense/yup) or vanilla JavaScript.

Example

### Graphical user interface, text, application, email, Teams Description automatically generated

### Error Handling

All endpoints are wrapped in a try catch block

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Errors caught are passed to the error handler

Text

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Example

Text

Description automatically generated

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## Advanced Features Endpoints

### POST /upload/images/products

Images can be uploaded to this endpoint. They will be given a uuid as their filename

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The image can be accessed at the URL

Graphical user interface, application

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Validation

Invalid file extension

Graphical user interface, application

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File too large

A picture containing graphical user interface

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### POST /auth/login

This endpoint will sign and respond with a JWT token if a user successfully logs in Graphical user interface, text, application, email

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If unsuccessful Graphical user interface, text, application, email

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For this API, I have included a route to test for authenticated users

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The token generated can be passed into the authorization bearer header and be used to access protected routes

Graphical user interface, application

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# MySQL Schema

Graphical user interface, text

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Text

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