CARRY-A-WAY

Sprint 4

Backend API document

Backend Developers:

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INTERFACE

The idea of Carry-A-way is to provide users with a cheap, convenient, step-by-step tracking and messaging enabled shipping facility for their check in luggage/item/sports/music kit etc. through courier service of their choice and get it picked/delivered at their origin/destination doorstep. All in just few clicks.

Carry-A-way is a web application developed using Go and Angular which allows users to travel hassle free without a worry of carrying bulky luggage/items and paying heavy charges to airlines.

- This document refers to the backend API details that's developed using Golang.
- The development work is demonstrated in further pages with the help of code snippets and working screenshots.
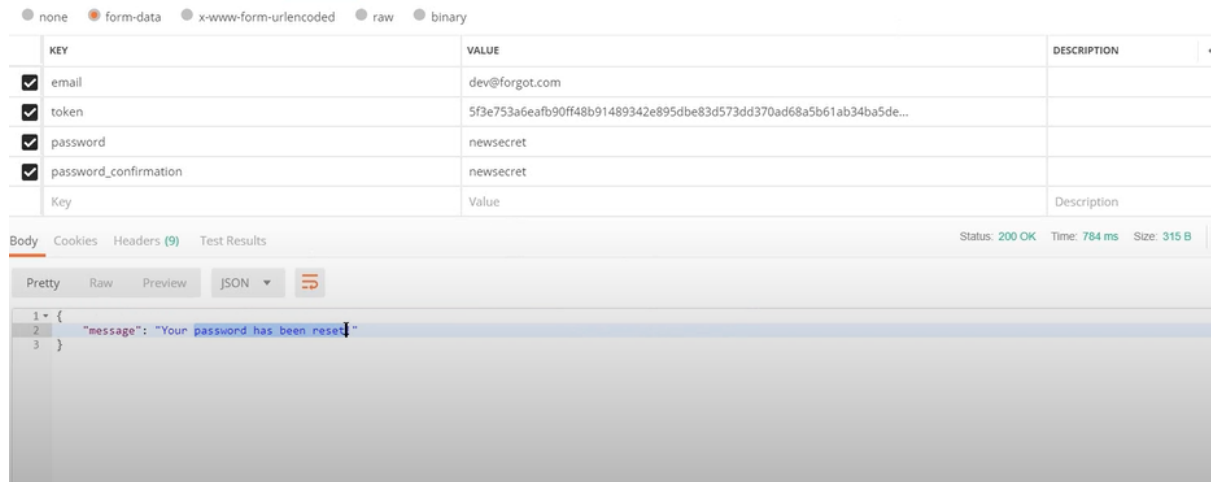
Table of Contents

In this final sprint we have achieved the following pertaining to backend:

Password recovery

One of the major API functionalities achieved in the backend area is the ability of user to recover password.

API: http://localhost:8000/forgotpw

Method: POST

Status: 200->OK

If any other incompatible data is sent:
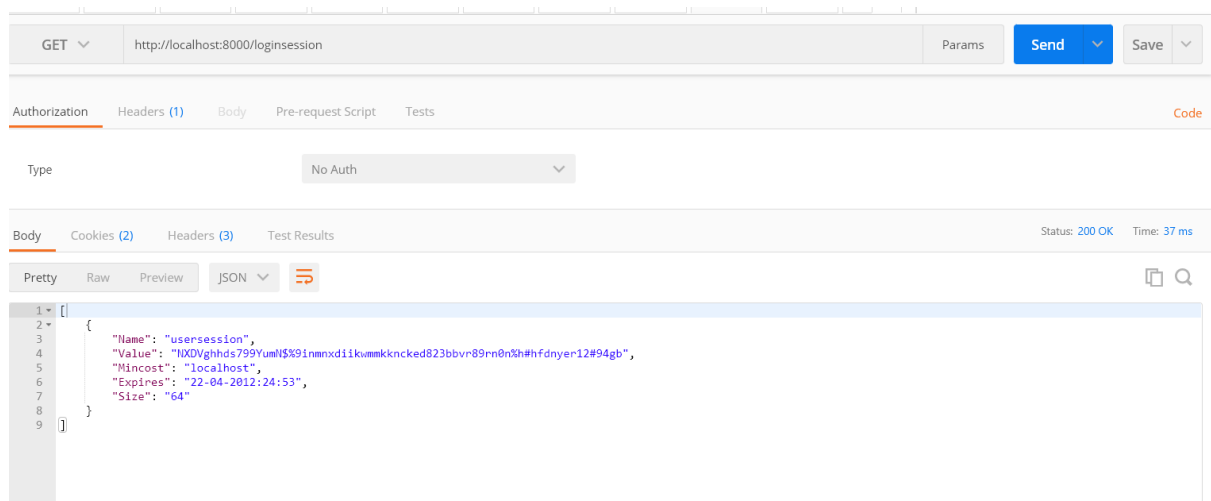
404->Error

401->Unauthorized

429->Too many requests

User sessions

Sessions can be tracked based on cookies stored in the d

API: http://localhost:8000/loginsession

Method: GET

Status: 200->OK

If any other incompatible data is received:

404->Error

401->Unauthorized

429->Too many requests

Cookies created as part of user sessions are stored and displayed in postman as follows

Name	Value	Domain	Path	Expires	HTTP	Secure
_xsrf	2|5e26996a|7a4 77204f15fe38ca0 2d155b18d8cff1| 1650055454	localhost	/		false	false
username-localhost-8888	"2|1:0|10:165038 8957|23:userna me-localhost-8888|44:ZDhiM2 VkNTE1MjA2NDA 1MTg4MjQyYzU5 ZWU0ZGE4NGQ= |2af8d4e2a4c9cf 3bb8b9a91ec6a8 9929941874de53 b11045ce5ac63a 0c8a39a4"	localhost	/		true	false

Status: 200 OK   Time: 19 ms

Chat

We have implemented chat functionality for dispute queries. It utilizes Redis and web sockets.

```
GET ∨    http://localhost:8000/chat.API                    Params    Send ∨    Save ∨

Authorization    Headers (1)    Body    Pre-request Script    Tests                    Code

Type                    No Auth ∨

Body    Cookies (2)    Headers (3)    Test Results              Status: 200 OK   Time: 26 ms

Pretty    Raw    Preview    JSON ∨

1  [
2    {
3      "Username": "Tanner001",
4      "Message": "Hello!! I have a query with my luggage tracking please help with the order id given",
5      "Order id": "12"
6    }
7  ]
```

API: http://localhost:8000/chat.API

Method: GET

Status: 200->OK

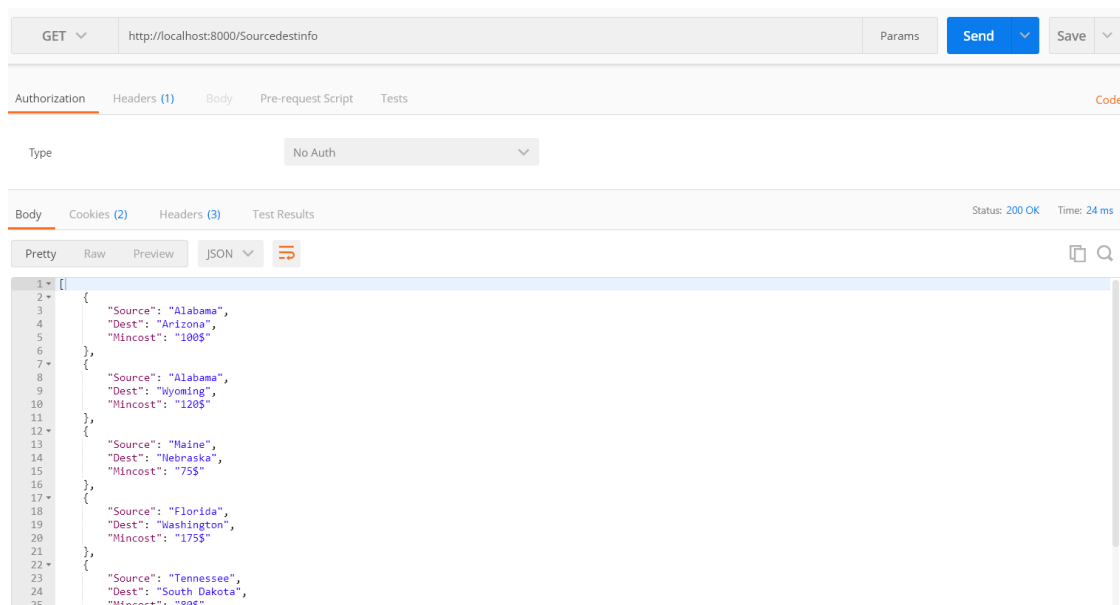If any other incompatible data is received:

404->Error

401->Unauthorized

429->Too many requests

Basecost

End point has been created to retrieve base costs of various source destination base costs from the database.

API: http://localhost:8000/Sourcedestinfo

Method: GET

Status: 200->OK

If any other incompatible data is received:

404->Error

401->Unauthorized

429->Too many requests

Unit tests

TestLoginWrongCred: This test case passes when user gives wrong credentials

```
=== RUN    TestLoginWrongCred
    c:\Users\papip\OneDrive\Desktop\SE project\CAW\Backend\signupauth\test\authControllers_test.go:29:
--- PASS: TestLoginWrongCred (0.00s)
PASS
ok      CAW/Backend/signupauth/test     5.225s


> Test run finished at 4/20/2022, 1:27:46 PM <

```

TestLogout: This test case passes when user logs out properly

```
Running tool: C:\Program Files\Go\bin\go.exe test -timeout 30s -run ^TestLogout$ CAW/Backend/signupauth

=== RUN    TestLogout
    c:\Users\papip\OneDrive\Desktop\SE project\CAW\Backend\signupauth\test\authControllers_test.go:37:
--- PASS: TestLogout (0.00s)
PASS
ok      CAW/Backend/signupauth/test     4.483s
```

TestLogoutWhenIncorrect: This test case passes when user logs out improperly

```
=== RUN    TestLogoutWhenIncorrect
    c:\Users\papip\OneDrive\Desktop\SE project\CAW\Backend\signupauth\test\authControllers_test.go:44:
--- PASS: TestLogoutWhenIncorrect (0.00s)
PASS
ok      CAW/Backend/signupauth/test     0.584s
```

TestForgotPasswordHandler: This test case passes when user password is successfully recovered

```
=== RUN    TestForgotPasswordHandler
    c:\Users\papip\OneDrive\Desktop\SE project\CAW\Backend\signupauth\test\passwordrecovery_test.go:9: message : Password reset successfully
--- PASS: TestForgotPasswordHandler (0.00s)
PASS
ok      CAW/Backend/signupauth/test     4.301s


> Test run finished at 4/20/2022, 1:35:26 PM <

```