Voucher Claim

Git repo: https://github.com/atomz520/voucher-claim

The database runs with `sequelize` and `sqlite3`. `express` framework was used as the backbone of the application. The dev database is stored in the `voucher-claim.sqlite` file in the root directory.

`faker-js` library was used to generate dummy data simulating a database from a client.

It is tested to be working on Node v16.15.0

To run the API:

```
npm install
npm start
```
The server runs on port 8088
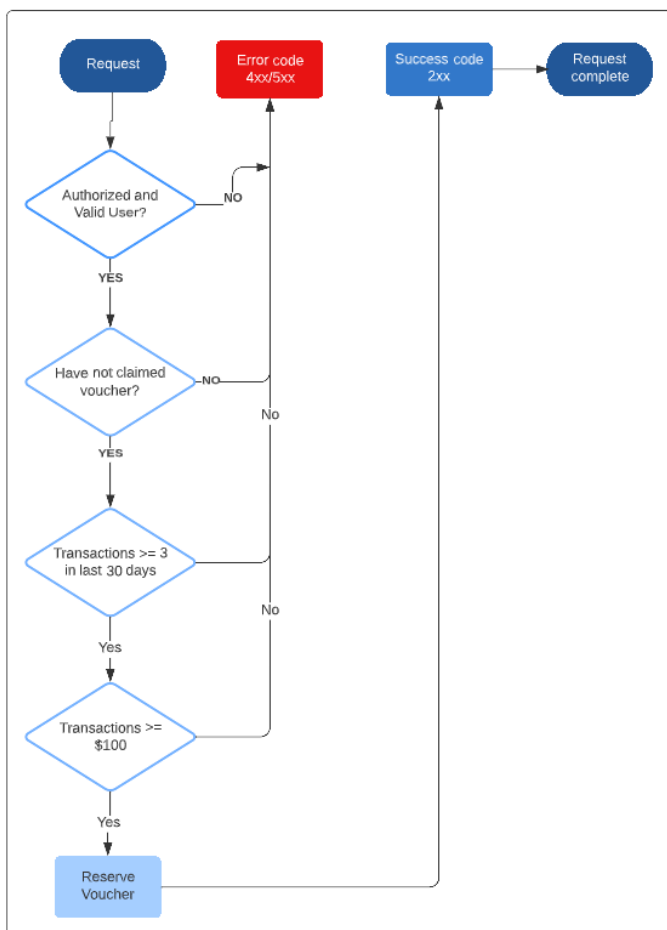
Postman collection file has been added to directory root:
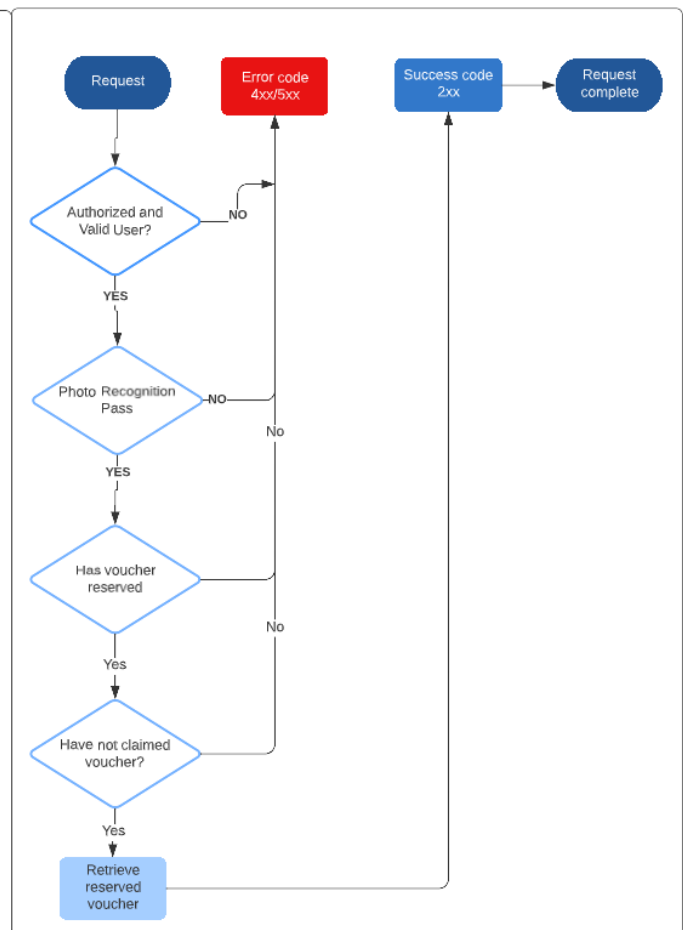`VouchersClaim.postman_collection.json`

Test data: customer_id 6 & 7 are not eligible to collect the voucher.

Logic Diagrams:

Customer eligible check
- Checks for the customer's eligibility to redeem a voucher.
- If a customer is eligible, a voucher is reserved for the customer.

Parameters:
customer_id int Required

Example Request:
```
POST http://localhost:8088/eligibility-check HTTP/1.1
{
    "customer_id": 1
}
```

Example Response:
```
HTTP/1.1 200 OK
{
    "eligible": true
}
```

Example Error:
```
HTTP/1.1 400 Bad Request
{
   "error": {
       "title": "There was an error with the request",
       "detail": "Already claimed voucher"
   }
}
```
- Invalid customer_id
- Already claimed
- Already have a reserved voucher

Validate Photo and Get Voucher Code
- Uses an Image Recognition service to determine if submission is valid.
- If submission is valid and a voucher code has been reserved, the voucher code is returned to the customer.

Parameters:
customer_id `int` Required
photo_file `base64` Required

Example Request:
POST `http://localhost:8088/retrieve-voucher` **HTTP/1.1**
```
{
    "customer_id": 1,
    "photo_file": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
}
```

Example Response:
HTTP/1.1 200 OK
```
{
    "voucher_code": "ulpqaqqz6wkwi7h9xglq"
}
```

Example Error:
HTTP/1.1 400 Bad Request
```
{
    "error": {
        "title": "There was an error with the request",
        "detail": "Failed photo verification"
    }
}
```
- Invalid customer_id
- Failed photo verification
- No voucher allocated
- Already claimed voucher