Basic Insurance Recommendation API

Basic insurance recommendation REST api written with Express.js

Useful informations about project

API URL: https://insurance-api-arinc.herokuapp.com

* Web Server: Heroku

Database: MongoDB Cloud

* App Framework: Node.js/Express.js
* CI/CD: Github Actions, Docker
* Test framework: Jest, Supertest

This project assumes you had already installed these tools:

- 1. nvm (https://github.com/nvm-sh/nvm)
- 2. postman (https://www.postman.com/)

Production Level Information

- This repo is using Github Actions for CI/CD deployment to Heroku.
- This project is also using MongoDB Cloud for database.
- Below you can find the production level URLs:
 - Recommendation endpoint, Only POST method is allowed.

https://insurance-api-arinc.herokuapp.com/recommendations

• Healthcheck endpoint, Only GET method is allowed.

https://insurance-api-arinc.herokuapp.com/healthcheck

Installation

• Installation of node and npm using nvm:

curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.0/install.sh I bash

 Running either of the above commands downloads a script and runs it. The script clones the nvm repository to ~/.nvm, and attempts to add the source lines from the snippet below to the correct profile file (~/.bash_profile, ~/.zshrc, ~/.profile, or ~/.bashrc).

```
export NVM_DIR="$HOME/.nvm"

[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh" # This loads nvm

[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion" # This loads nvm

bash_completion
```

• After *nvm* successfully installed, use the commands below:

```
nvm install 14.16.0
nvm use 14.16.0
cd {path-to-basic-insurance-api}
npm install
```

Postman Usage

 You can find the example POSTMAN collection as basic-recommendationapi.postman_collection.json on the directory.
 You can import the file and try each request on POSTMAN.

API Usage

• Sample configuration for .env file that should be available in the root of this project:

```
PORT=3000

DB_USERNAME=<mongodb-username>

DB_PASSWORD=<mongodb-password>

DB_CONNECTION_PATH=<mongodb-path>
```

- Run commands:
 - For Development

```
npm run start:dev
```

For Production

```
npm run start:prod
```

• For Development with Autorestart when code changes

```
npm run watch:dev
```

For Testing

```
npm run test
```

- After starting the system, API will expose itself through port in the .env file or 3000.
- There are two different endpoints for this API:
 - 1. /healthcheck
 - This endpoint accepts GET request.
 - This endpoint is just useful for understanding of the application live status.
 - 2. /recommendations
 - This endpoint accepts *POST* request.
 - If email parameter of questionnaire is not in the database it puts the questionnaire data into database then returns the insurance recommendation.
 - If email parameter of questionnaire is in the database it updates the data related with that email inside database then returns the insurance recommendation.

Body Params (express-validator has been used for validating the request parameters):

```
{
    "firstName": "Arinc Elhan", [must - string]
    "address": "Ankara", [must - string]
    "children": "yes", [must - enum['yes', 'no']]
    "childrenNumber": 4, [if `children` is `yes` then must else `optional` - number]
    "occupation": "Employed", [must - enum['Employed', 'Self-employed', 'Student']]
    "email": "elhanarinc@gmail.com" [must - string - email]
}
```

Valid request response data:

```
{
  "status": "OK",
  "data": {
      "Personal Liability": 6,
      "Health Insurance": 420,
      "Household Content": 7.5,
      "Currency": "EU"
  }
}
```