API Document

Languages

Created the API using NODE JS, Express JS, Mongo DB.

Configurations and downloads

Node JS

Download Node JS from the link below

https://nodejs.org/en/download/

I am using windows so downloaded the windows version, also please refer to how to install **NODE JS** document I have attached.

Mongo DB

Created an account in mlab, created a collection named as "pharmacies"

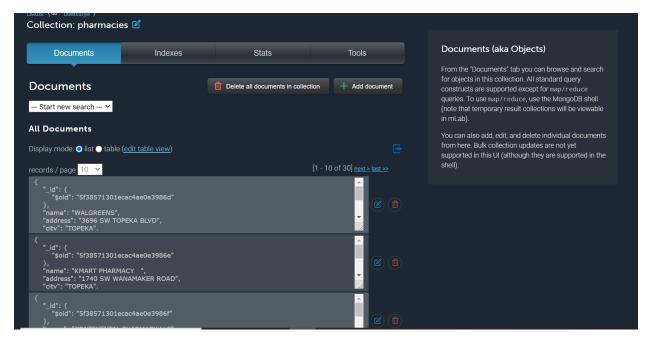The database exports can be found under data folder and is named dataexports.json.

Project

- I have installed necessary packages to run the project
- Created app.js, pharmacy.js and pharmacies.js.
- In app.js we have connections to mongo dB, server listening to the port, creating location routers and error handlers.
- In pharmacy.js we have the pharmacies.csv which converted into json(by using a converter externally) to insert into the DB, distance calculation logic, finding the nearest pharmacy logic, together we have business logic here.
- In the browser when we give http://localhost:3000/location?latitude=39.015053&longitude=-95.77866
- We see the data inserted into DB and showing the output shown below in the screenshots.

To run the whole project in command prompt:

- Change directory to the project folder and run the command "**npm start**"

MongoDB Successful insertion of the pharmacies

Collection: pharmacies ✎

Documents	Indexes	Stats	Tools

Documents

🗑 Delete all documents in collection   ➕ Add document

--- Start new search --- ⌄

All Documents

Display mode: ⦿ list ● table (edit table view)

records / page 10 ⌄   [1 - 10 of 30] next > last >>

```
{
    "_id": {
        "$oid": "5f38571301ecac4ae0e3986d"
    },
    "name": "WALGREENS",
    "address": "3696 SW TOPEKA BLVD",
    "city": "TOPEKA",
```

```
{
    "_id": {
        "$oid": "5f38571301ecac4ae0e3986e"
    },
    "name": "KMART PHARMACY   ",
    "address": "1740 SW WANAMAKER ROAD",
    "city": "TOPEKA",
```

```
{
    "_id": {
        "$oid": "5f38571301ecac4ae0e3986f"
    },
```

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

Output

localhost:3000/location?latitude=39.015045&longitude=-95.77866

```
{
    "name": "JAYHAWK PHARMACY AND PATIENT SUPPLY",
    "address": "2860 SW MISSION WOODS DR",
    "city": "TOPEKA",
    "state": "KS",
    "zip": 66614,
    "latitude": 39.015053,
    "longitude": -95.77866,
    "distance": 0.0509680000071242
}
```