# Implementation Assignment Assignment 3

# Class

Client-Server Web Development

# **Tutor**

Doug MacKenzie

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# 1. Setup

# A. MongoDB Database

# a. User Credentials

i. Username

Admin

ii. Password

Toiohomai1234

iii. Authentication Database

admin

iv. Role

root

b. Database Details

i. Database Name

phoenix

ii. Collections

headings

locations

vehicles

# c. Application Details

# i. Database URI

mongodb: // admin: Toiohomai 1234@127.0.0.1:27017:27017/phoenix? auth Mechanism = DEFAULT& auth Source = admin

ii. Location

Project > Server > .env > DB\_URI

# B. Global Modules and Visual Studio Extensions

a. Global Modules

@vue/cli

b. Visual Studio Extensions

Vue 3 Snippets

Vetur

c. Extension to Recover Missing Local Packages

npm install missing

# C. Commands to Start Project

a. Client

npm run serve

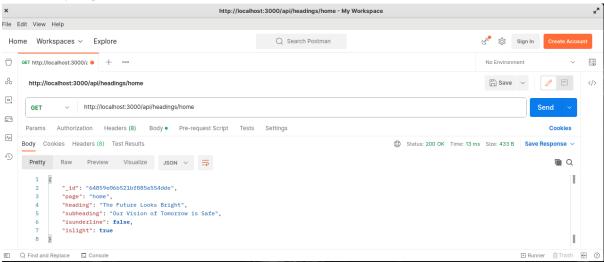
b. Server

npm start

# 2. API Testing

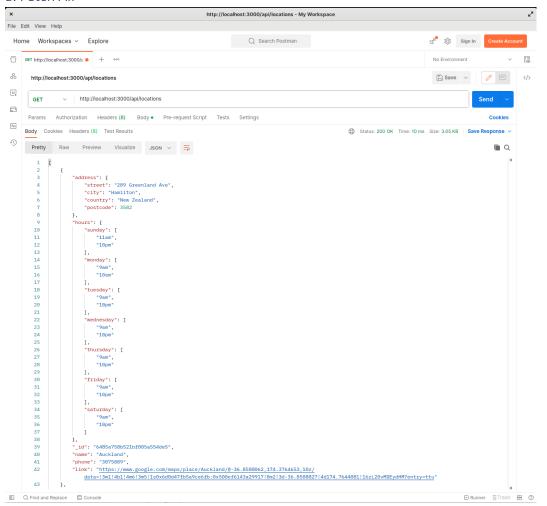
# A. Headings

# a. Fetch by Page

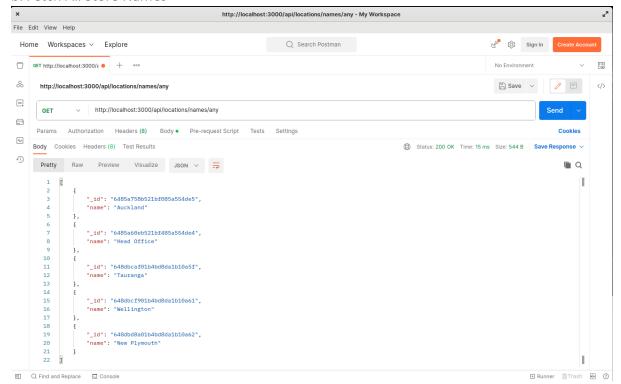


#### B. Locations

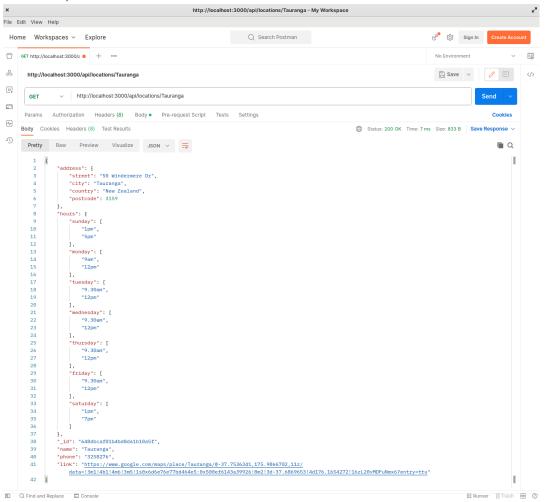
## a. Fetch All



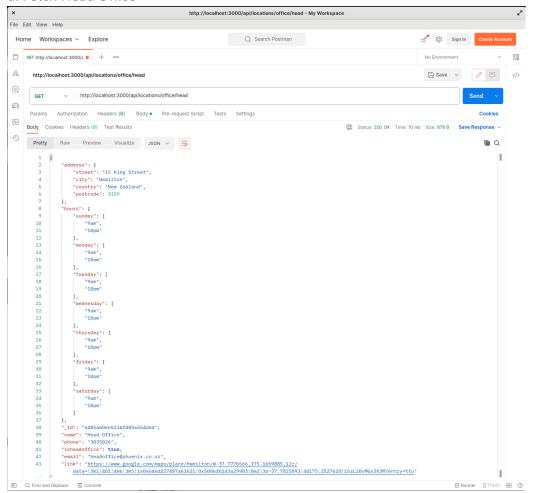
## b. Fetch All Store Names



## c. Fetch By Store Name

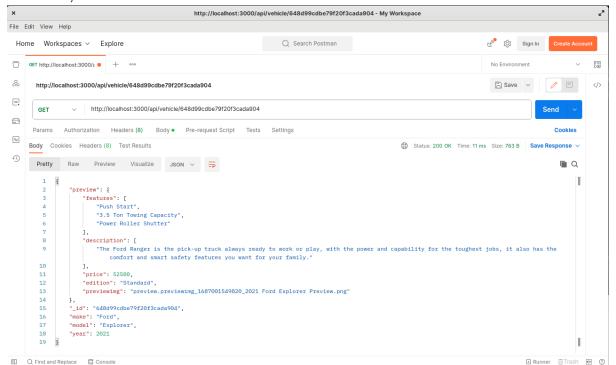


## d. Fetch Head Office

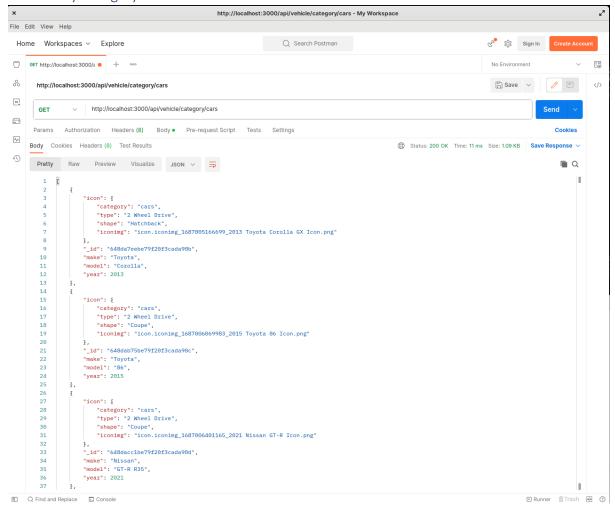


## C. Vehicle

# a. Fetch By ID

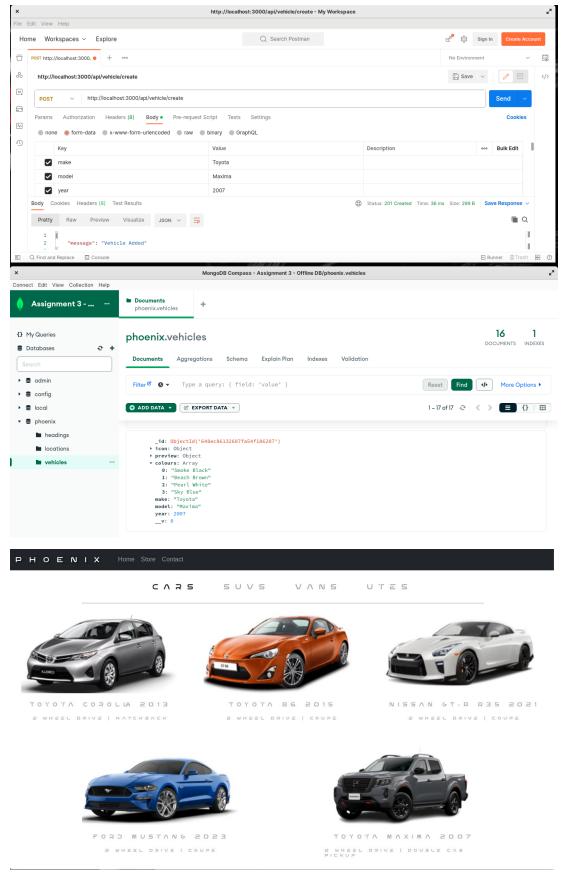


# b. Fetch By Category

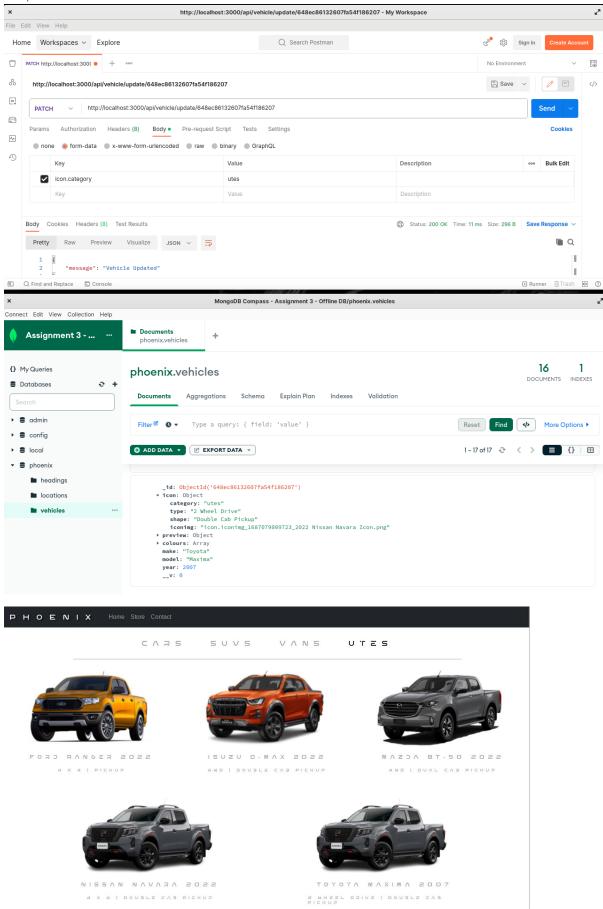


# c. Not Implemented in Website Due to Client Promise and Time Constraint

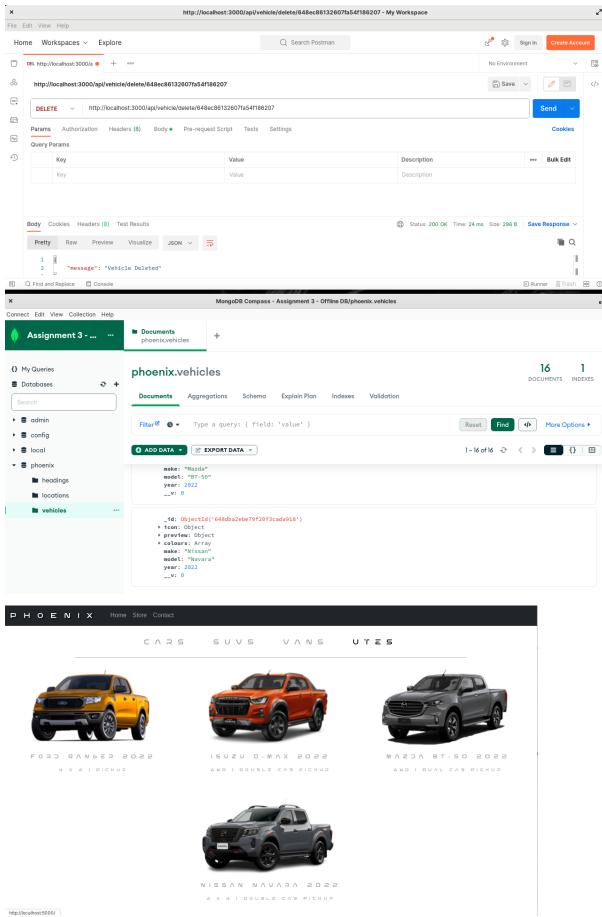
## i. Create



#### ii. Update

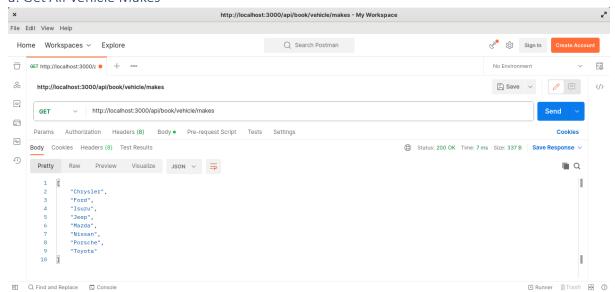


#### iii. Delete

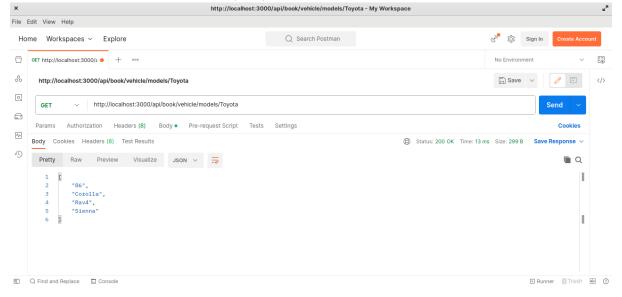


# D. Book

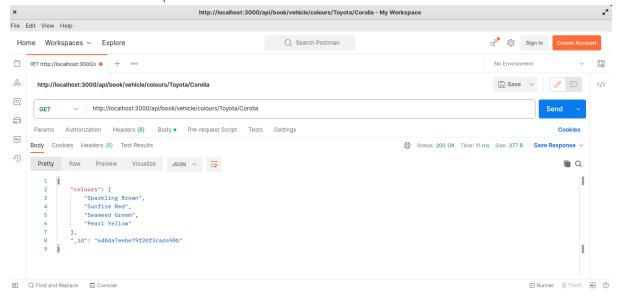
#### a. Get All Vehicle Makes



# b. Get All Distinct Vehicle Models by a Specific Make



# c. Get All Colours for a Specific Vehicle



# 3. Database Testing

# A. Headings

# a. Find One By Page

```
phoenix> db.headings.findOne({page: "home"})
{
    _id: ObjectId("64859e06b521bf085a554dde"),
    page: 'home',
    heading: 'The Future Looks Bright',
    subheading: 'Our Vision of Tomorrow is Safe',
    isunderline: false,
    islight: true
}
phoenix>
```

# **B.** Locations

#### a. Find All

# b. Find All Store Names

```
phoenix> db.locations.find({}, {"name": 1}).pretty()
{
    { _id: ObjectId("6485a758b521bf085a554de5"), name: 'Auckland' },
    { _id: ObjectId("6485a60eb521bf485a554de4"), name: 'Head Office' },
    { _id: ObjectId("648dbcaf01b4bd8da1b10a5f"), name: 'Tauranga' },
    { _id: ObjectId("648dbcf901b4bd8da1b10a61"), name: 'Wellington' },
    { _id: ObjectId("648dbd8a01b4bd8da1b10a62"), name: 'New Plymouth' }
}
phoenix>
```

Find By Store Name

#### c. Find Head Office

# C. Vehicles

## a. Find By ID

## b. Find By Category

#### c. Update By ID

# d. Delete By ID

```
phoenix> db.vehicles.remove({"_id": ObjectId("648d9d19be79f28f3cada968")})
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkW rite.
{ acknowledged: true, deletedCount: 1 }
phoenix>
```

#### D. Book

#### a. Get All Vehicle Makes

# b. Get All Distinct Vehicle Models by a Specific Make

```
phoenix> db.vehicles.distinct("model", {"make": "Toyota"})
[ '86', 'Corolla', 'Sienna' ]
phoenix> ■
```

# c. Get All Colours for a Specific Vehicle

```
phoenix> db.vehicles.distinct("colours", {"make": "Toyota", "model": "86"})
[ 'Beach Brown', 'Diamond White', 'Graphite Gray', 'Sparkling Red' ]
phoenix>
```

# References

DCodeMania. (2021). #01 MEVN Full Stack Web Application Tutorial | Working on Back-End [Video]. YouTube.

https://www.youtube.com/watch?v=-qdG P85fFQ&ab channel=DCodeMania