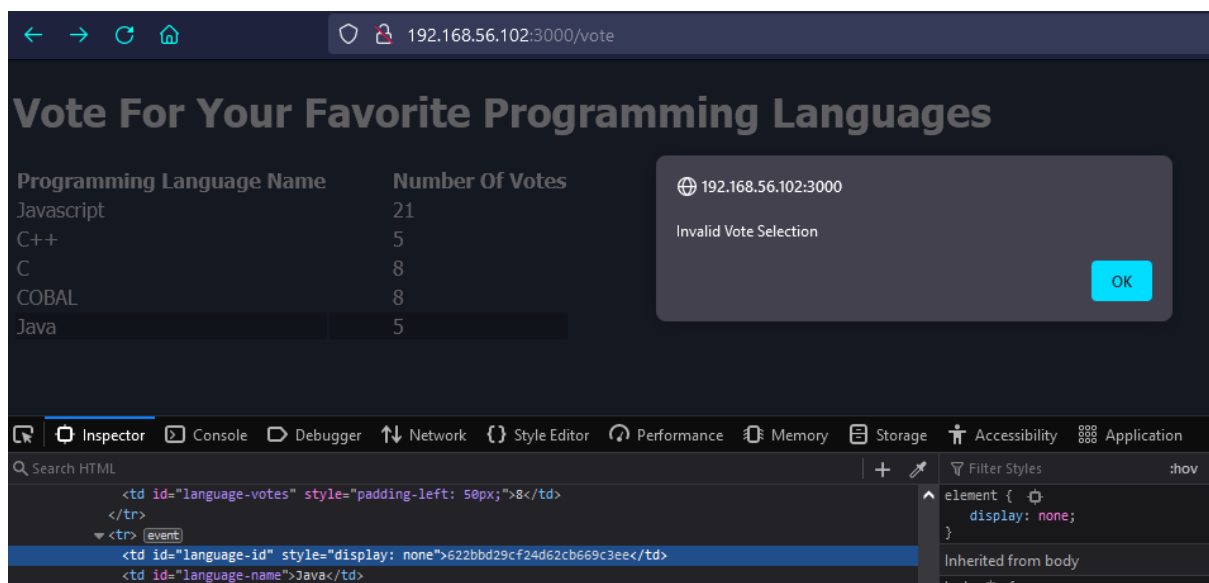# CT414 Assignment 2

Testing

I tested the frontend with Firefox and backend with Firefox & Postman. When it came to testing the frontend, I wanted to make sure that when errors occurred, the user was made aware of the error and with the backend, I wanted to make sure errors were handled correctly and did not leave NodeJs 'hanging'.

I first checked that the normal scenarios worked (happy path) and they did. The application only allows you to vote for one language before reloading the webpage to update the tallies.

I then checked to see what would happen if the user somehow managed to vote for a programming language that didn't exist, maybe by changing the hidden ID fields in the HTML.

I directly contacted the API via postman and got the same status code for if the ID was invalid or didn't exist.

http://192.168.56.102:3000/vote/622bbd29cf24d62cb669c3e8

POST ⌄	http://192.168.56.102:3000/vote/622bbd29cf24d62cb669c3e8

Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings

Query Params

KEY	VALUE	DESCRIPTIC
Key	Value	Description

Body   Cookies   Headers (7)   Test Results   ⊕   400 Bad Request   56

Pretty   Raw   Preview   Visualize   Text ⌄   ⇄

```
1   Bad Request
```

Whilst I was testing the application, I kept track via the logs when the database was being updated.


```
conor@Shaw-Smith-Ubuntu:~/Workspace/College/4th Year/CT414/assignment_2$ node app.js
Listeneing on port 3000
(node:11446) Warning: Accessing non-existent property 'count' of module exports inside circular dependency
(Use `node --trace-warnings ...` to show where the warning was created)
(node:11446) Warning: Accessing non-existent property 'findOne' of module exports inside circular dependency
(node:11446) Warning: Accessing non-existent property 'remove' of module exports inside circular dependency
(node:11446) Warning: Accessing non-existent property 'updateOne' of module exports inside circular dependency
DEBUG: Collection initialised
(node:11446) DeprecationWarning: Mongoose: `findOneAndUpdate()` and `findOneAndDelete()` without the `useFindAndM
odify` option set to false are deprecated. See: https://mongoosejs.com/docs/deprecations.html#-findandmodify-
DEBUG: Javascript vote incremented by 1
DEBUG: C++ vote incremented by 1
DEBUG: C vote incremented by 1
DEBUG: COBAL vote incremented by 1
DEBUG: Java vote incremented by 1
DEBUG: COBAL vote incremented by 1
DEBUG: Javascript vote incremented by 1
DEBUG: C++ vote incremented by 1
DEBUG: C vote incremented by 1
DEBUG: Javascript vote incremented by 1
DEBUG: Javascript vote incremented by 1
DEBUG: Java vote incremented by 1
DEBUG: Javascript vote incremented by 1
DEBUG: C++ vote incremented by 1
```

I also made sure that the routes worked correctly and invalid routes were dropped.

I also made sure that if the collection didn't exist, that it should be made on startup of the node app.

ct414-assignment2.languages

STORAGE SIZE: **4KB**   TOTAL DOCUMENTS: **5**   INDEXES TOTAL SIZE: **4KB**

Find   Indexes   Schema Anti-Patterns ⓿   Aggregation

FILTER   *{ field: 'value' }*

QUERY RESULTS **1-5 OF 5**

```
_id: ObjectId("622bc227d81a762d4b239901")
name: "Javascript"
votes: 0
__v: 0
```

```
_id: ObjectId("622bc227d81a762d4b239902")
name: "C"
votes: 0
__v: 0
```

```
_id: ObjectId("622bc227d81a762d4b239903")
name: "C++"
votes: 0
```

Here's a screenshot of MongoDB being updated once I voted for Javascript.

Vote For Your Favorite Programming Languages

Programming Language Name	Number Of Votes
Javascript	1
C	0
C++	0
COBAL	0
Java	0

DATABASES: **1** COLLECTIONS: **1**

+ **Create Database**

🔍 NAMESPACES

▼ **ct414-assignment2**

| **languages**

ct414-assignment2.languages

STORAGE SIZE: **20KB**   TOTAL DOCUMENTS: **5**   INDEXES TOTAL SIZE: **20KB**

Find   Indexes   Schema Anti-Patterns   Aggregatio

FILTER *{ field: 'value' }*

‹

QUERY RESULTS **1-5 OF 5**

```
_id: ObjectId("622bc227d81a762d4b239901")
name: "Javascript"
votes: 1
__v: 0
```

```
_id: ObjectId("622bc227d81a762d4b239902")
name: "C"
votes: 0
__v: 0
```