

ACCOLITE UNIVERSITY, JULY 2020

REST Web Services in Java

Assignment Submission

By: Ayush Malik

I have made the REST API using Node.js. It uses 2 dependencies: 'express' and 'body-parser'. Please run 'npm install' after cloning the repository to resolve all dependencies.

Structure of a To-Do Object

```
{
  "id": 5,
  "value": "This is a sample To-Do"
}
```

Server Address

http://127.0.0.1:3000

API Reference

The following table summarizes the operations supported by my API.

URI	HTTP Method	Parameter	POST Body	Functionality Performed
listAll	GET	-	-	Display the complete To-Do list.
-	GET	id	-	Display the To-Do whose 'id' is equal to the parameter in the request.
add	POST	-	JSON	Add the new To-Do given in the JSON body to the To-Do list.
update	POST	-	JSON	Updating an existing To-Do whose 'id' in the JSON body matches an existing

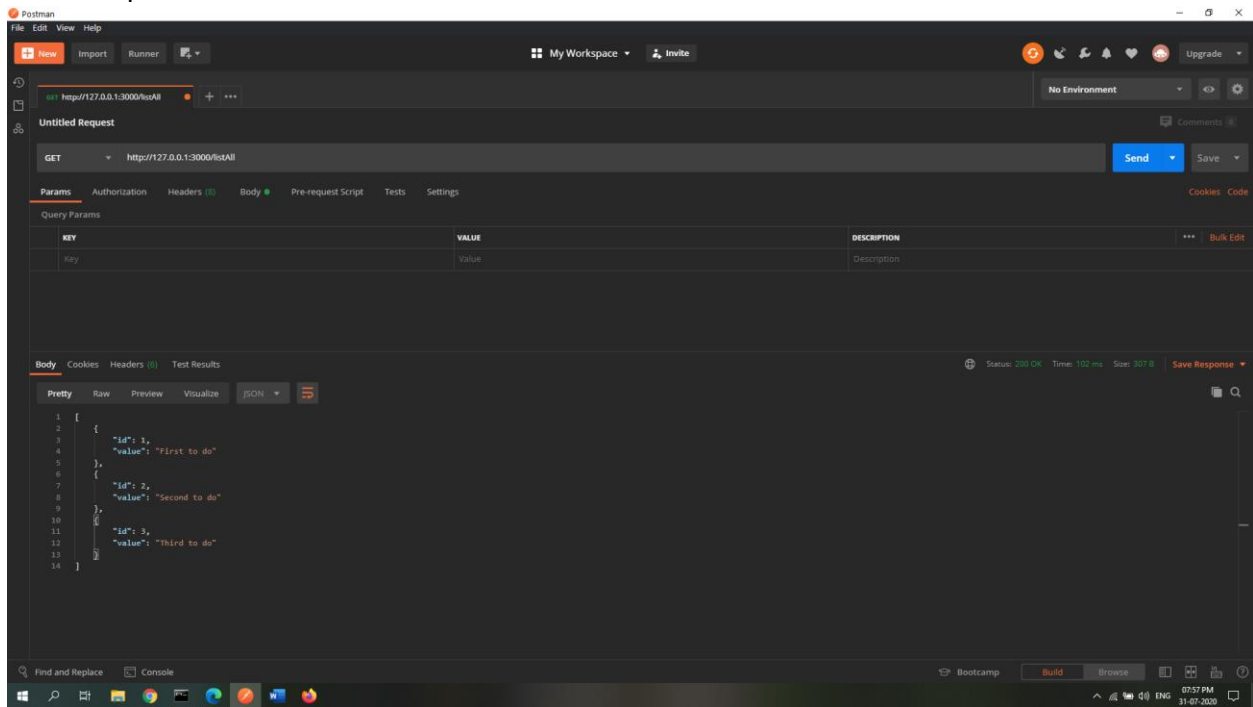
				To-Do's 'id' in the To-Do list.
delete	DELETE	id	-	Delete the To-do whose 'id' is equal to the parameter in the request.

Use of each individual operation with sample commands and outputs has been explained in depth below.

GET: Display the complete To-Do list

This request returns the complete To-Do list.

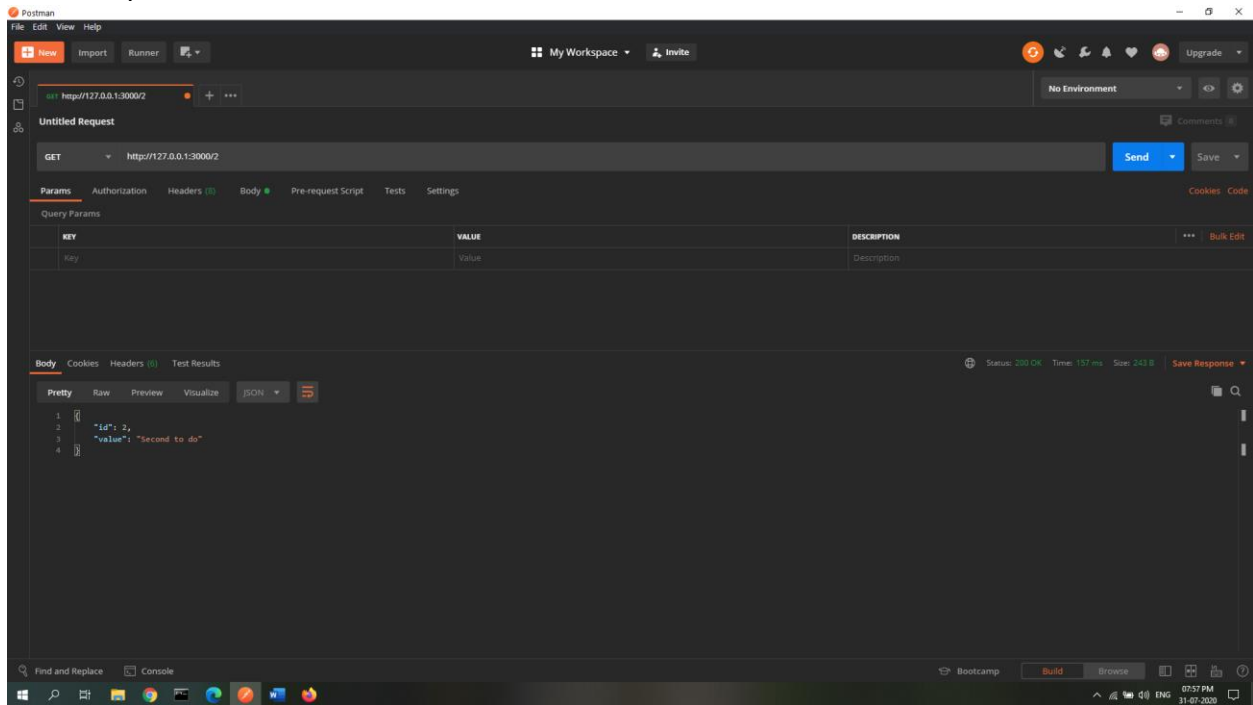
GET: <http://127.0.0.1:3000/listAll>



GET: Displaying To-Do with a particular 'id'

This request returns a To-Do whose 'id' is equal to the parameter in the request. If no match is found, then a message stating "No Element with the given id found" is returned.

GET: `http://127.0.0.1:3000/2`



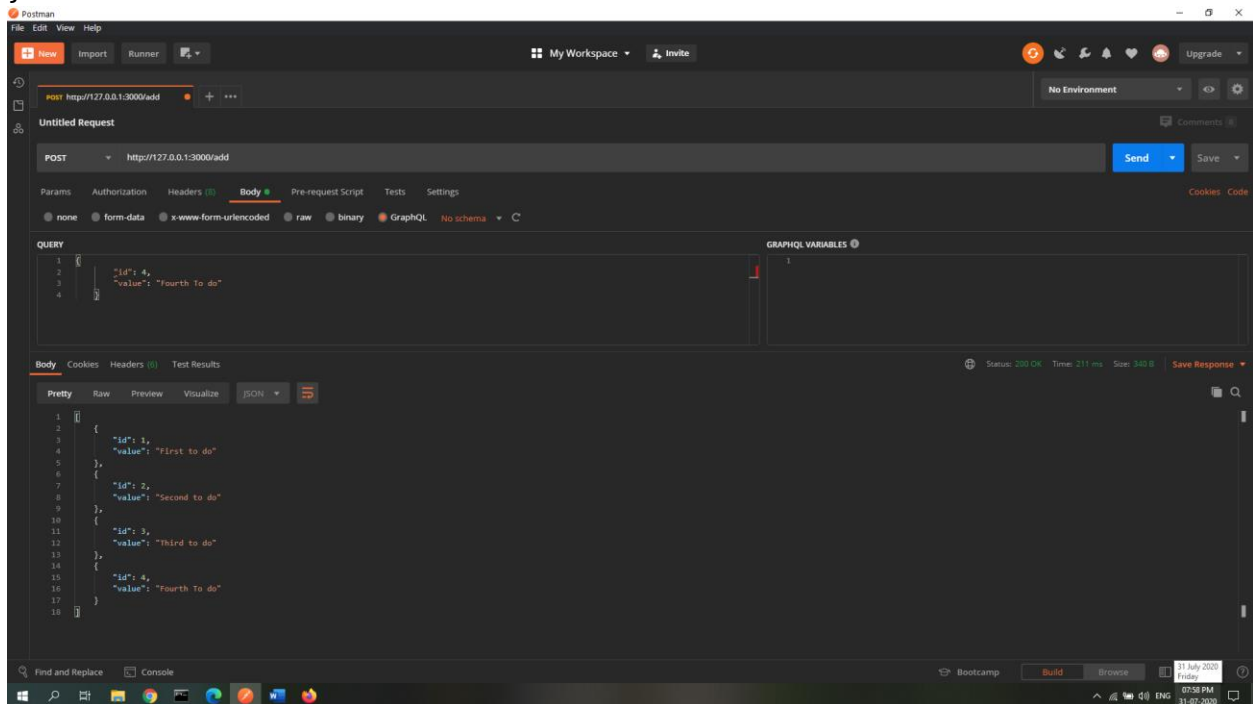
POST: Adding a new To-Do

This request adds a new To-Do given in the request's JSON body to the To-Do list and returns the new To-Do-List.

POST: `http://127.0.0.1:3000/add`

Body:

```
{
  "id": 4,
  "value": "Fourth To do"
}
```



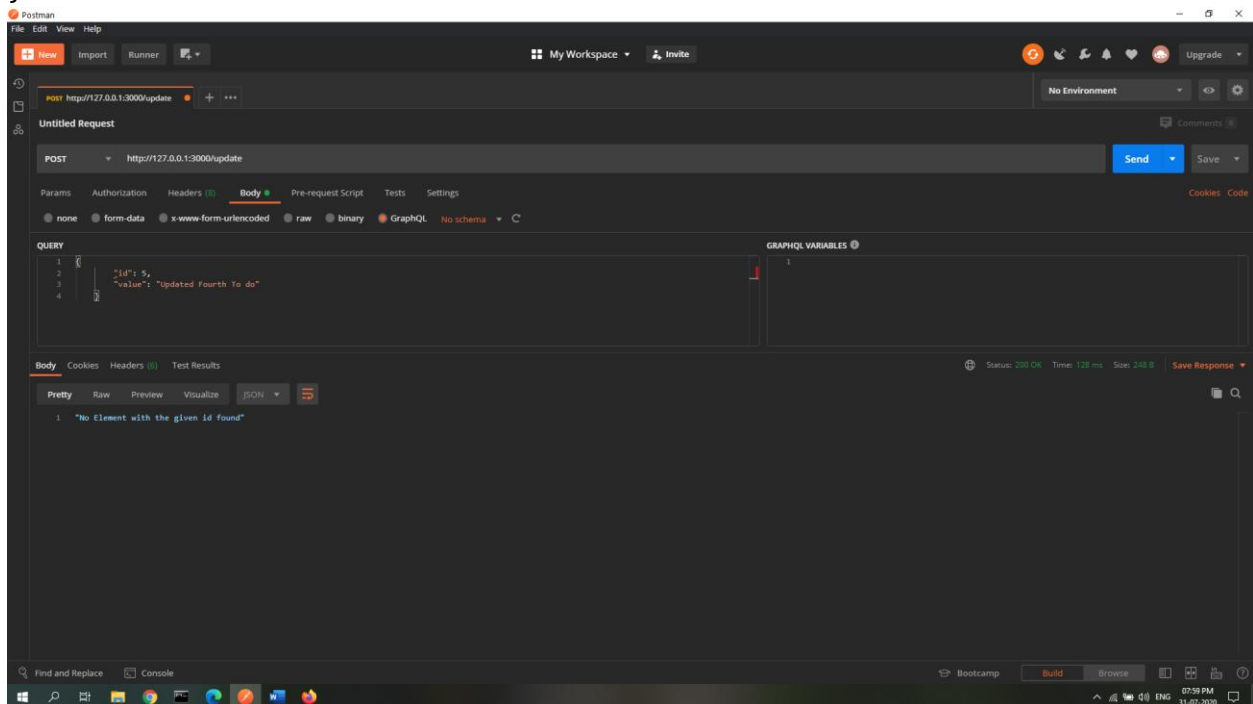
POST: Updating an existing To-Do

This request updates an existing To-Do whose 'id' in the JSON body matches an existing To-Do's 'id' in the To-Do list and returns the updated To-Do. If no match is found, then a message stating "No Element with the given id found" is returned.

POST: `http://127.0.0.1:3000/update`

Body:

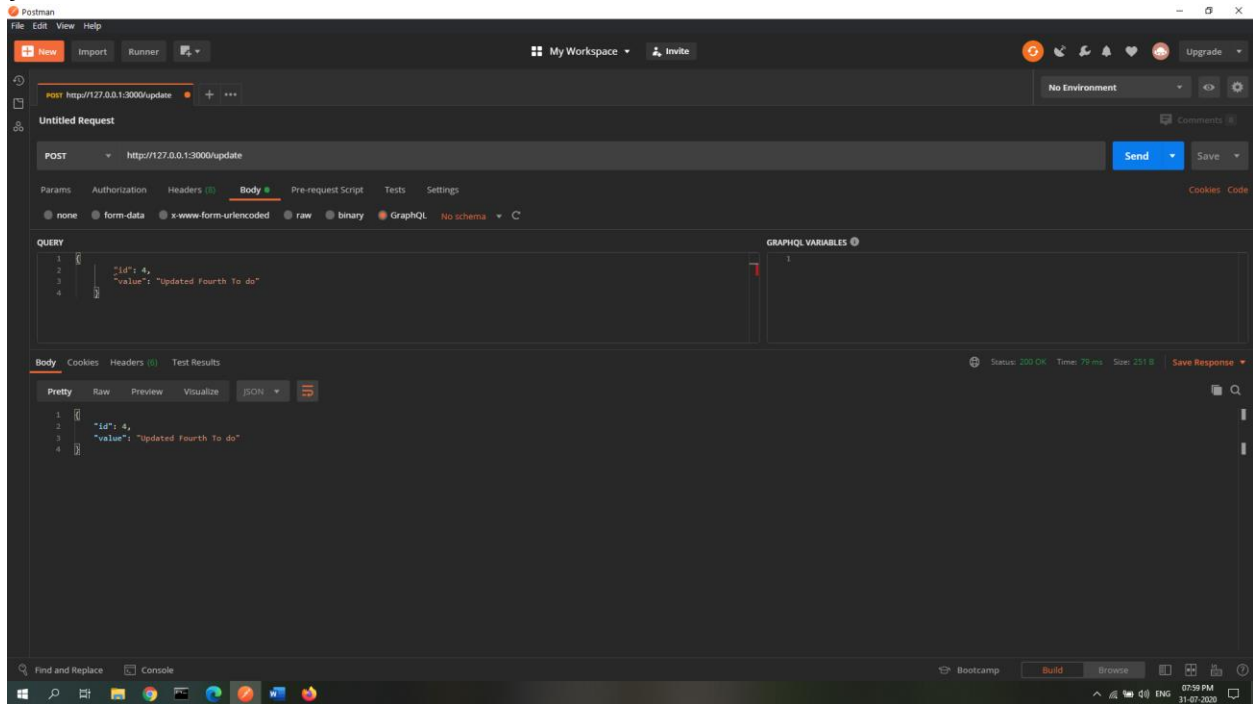
```
{
  "id": 5,
  "value": "Updated Fourth To do"
}
```



POST: http://127.0.0.1:3000/update

Body:

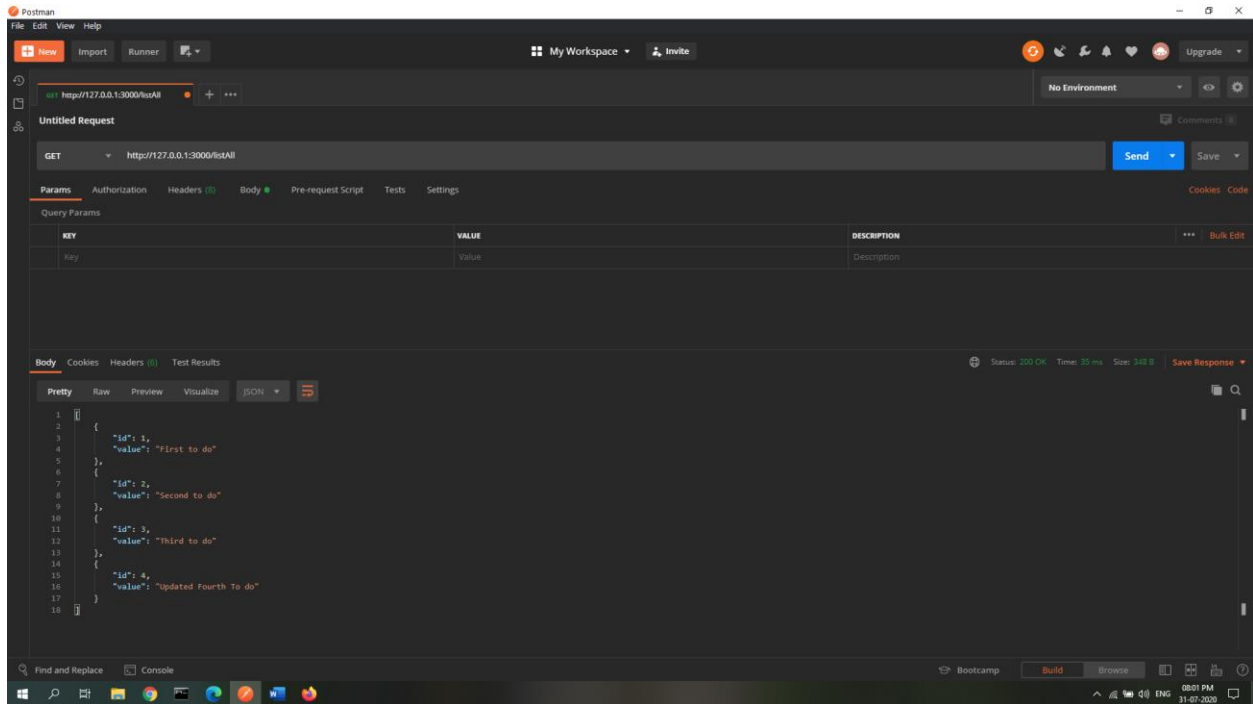
```
{  
  "id": 4,  
  "value": "Updated Fourth To do"  
}
```



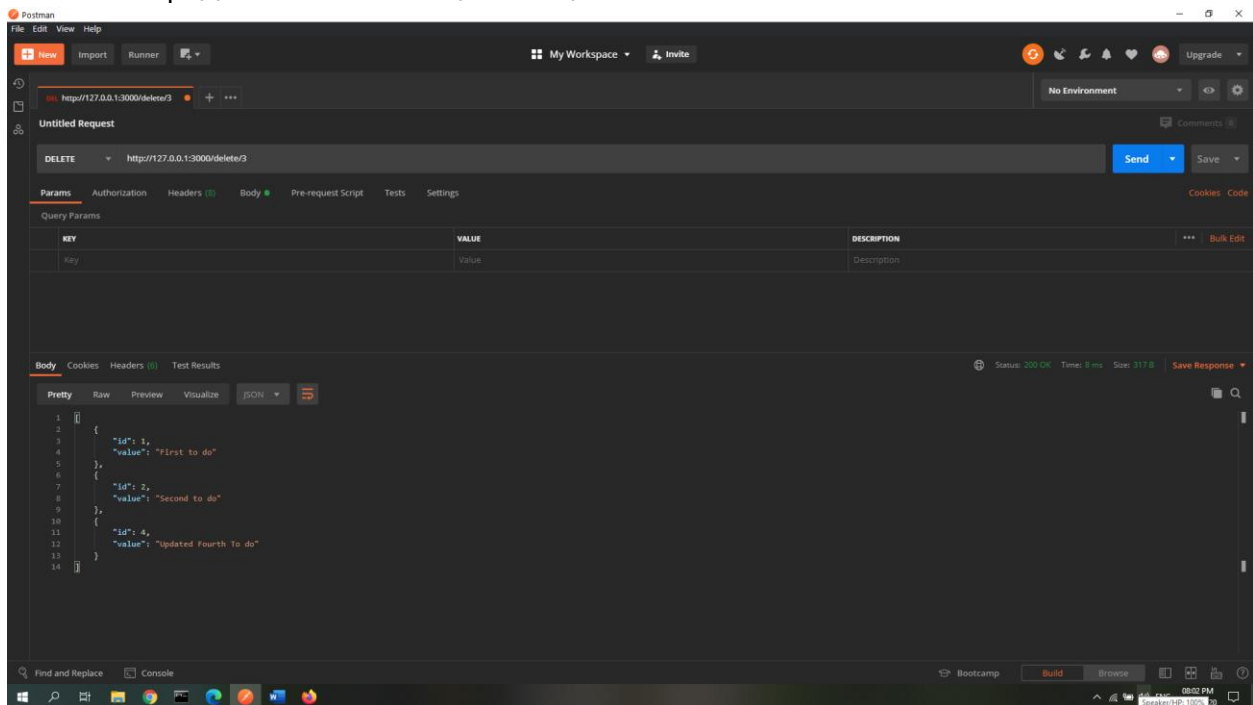
DELETE: Deleting an existing To-Do

This request deletes the To-do whose 'id' is equal to the parameter in the request. It returns the updated To-do list after deletion of the record. If no match is found, then a message stating "No Element with the given id found" is returned.

GET: <http://127.0.0.1:3000/listAll>



DELETE: <http://127.0.0.1:3000/delete/3>



DELETE: http://127.0.0.1:3000/delete/3

