

CS5551

Advance Software Engineering
Lab Assignment – 6

My work for the lab assignment 6 consists of methods from REST API. I have created a database in MongoDB and then access that database using get, put and post methods of REST API.

It is static data.

```
9
10 var testProduct = {
11     id: "101",
12     name: "Raj Kiran Reddy",
13     major: "Computer Science",
14     semester: "Spring 2016",
15 }
16 };
17
18
```

It is the code which uses GET to retrieve list of students in the database.

```
17
18
19 function getAllProducts() {
20     client.get('/products', function (err, req, res, products) {
21         if (err) {
22             console.log("An error occurred >>>>>");
23             console.log(err);
24         } else {
25             console.log("Total Students " + products.length);
26             console.log("All Students >>>>>");
27             console.log(products);
28         }
29     });
30 }
31
```

It is the code for PUT method which inserts a record for the student.

```
56
57
58 function updateProduct(product) {
59     var p = product ? product : testProduct;
60     p.credithours = "9";
61     client.put('/product/' + p.id, p, function (err, req, res, status) {
62         if (err) {
63             console.log("An error occurred >>>>>");
64             console.log(err);
65         } else {
66             console.log('Details saved >>>>>');
67             console.log(status);
68         }
69     });
70 }
71
72
```

It is the code for POST method .

```
31
32
33 function saveProduct(product) {
34     var p = product ? product : testProduct; // override with global product if nothing is supplied
35     client.post('/product', p, function (err, req, res, product) {
36         if (err) {
37             console.log("An error occurred >>>>>");
38             console.log(err);
39         } else {
40             console.log('Details saved >>>>>');
41             console.log(product);
42         }
43     });
44 }
```

It is the output after the code has run

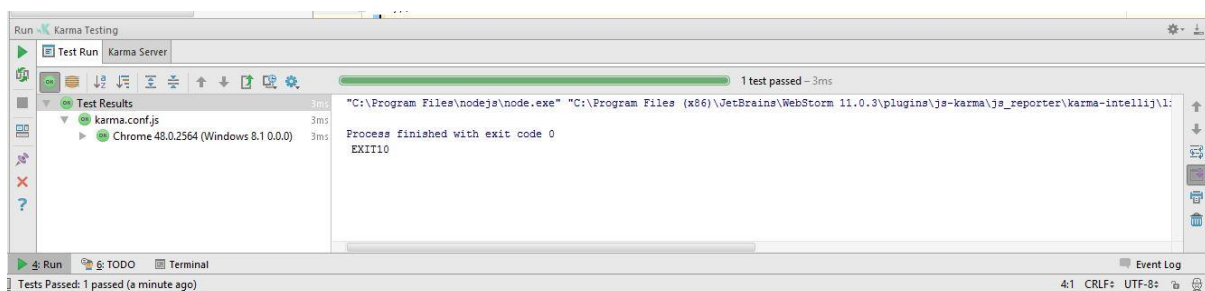
[illegible]

Test case is written to test the `getAllProducts()`.

```

1  +/** Created by RajKiranReddyM on 02-03-2016. ...*/
4  describe("The RESTService Validator",function() {
5
6      it("should return when the record is returned", function () {
7          function getAllProducts() {
8              client.get('/products', function (err, req, res, products) {
9                  if (err) {
10                     console.log("An error ocurred >>>>>");
11                     console.log(err);
12                 } else {
13                     console.log("Total Students " + products.length);
14                     console.log('All Students >>>>>');
15                     console.log(products);
16                 }
17             });
18         }
19     }

```



```
describe("The RESTService Validator2", function ()
{
    it("should return when the record is returned", function () {
        function saveProduct(product) {
            var p = product ? product : testProduct; // override with global product if nothing is supplied
            client.post('/product', p, function (err, req, res, product) {
                if (err) {
                    console.log("An error occurred >>>>>");
                    console.log(err);
                } else {
                    console.log('Details saved >>>>>');
                    console.log(product);
                }
            });
        }
    });
});
```

