Unit Test Results

Date: 16/05/2023
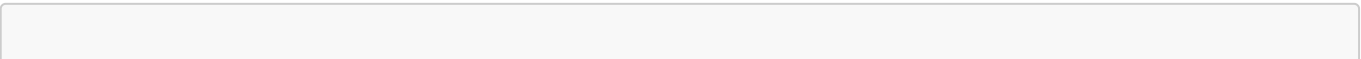
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List of tests

- can retrieve the posts from the database through the website
- can search the database and get the result from the search
  - search for posts with 'is'
  - search for posts with 'passion'

Tests table

Test	Requirement	Expected outcome	Actual outcome
Get all the post from the database for displaying	- database connection - posts table populated with at least 1 post	The test should pass, so long as: - The response is **status code**: 200 - The JSON Response should contain a property **posts** - The **posts** property has a length greater than 1 (this means posts have be found and retrieved)	- Responded with status: 200 - response JSON has **posts** - **posts** length was greater than 1 Test passed
Get all the post from the database what contain the word or series of character	- database connection - posts table populated with at least 1 post - provide the query parameters: 'is' - provide the query parameters: 'passion'	The test for searching, 'is', should pass, so long as: - The response is **status code**: 200 - The JSON Response should contain a property **posts** - The **posts** property has a length greater than 1 (this means posts have be found and retrieved)# The test for searching, 'passion', should pass, so long as: - The response is **status code**: 200 - The JSON Response should contain a property **posts** - The **posts** property has a length greater than 1 (this means posts have be found and retrieved)	search: 'is' - Responded with status: 200 - response JSON has **posts** - **posts** length was greater than 1 search: 'Passion'-Responded with status: 200 - response JSON has **posts** - **posts** length was greater than 1 Test passed

Test terminal output

```
> PGT-10-Secure-Web-Blog@1.0.0 test
> mocha

Server listening and started at http://localhost:3000



Test the retrieval of posts from the database through the website
client has disconnected
    ✔ Talks with the DB in the server and Gets the posts data successfully
(117ms)

Test we can search the database for post that contain a word and get the results
    ✔ Check for posts that contain the word 'is' (49ms)
client has disconnected
    ✔ Check for posts that contain the word 'passion' (45ms)


3 passing (216ms)
```

unit test code

```javascript
var server = require('../server.js');
var chai = require('chai');
chai.use(require('chai-json'));
chai.use(require('chai-http'));
var expect = chai.expect;
var assert = chai.assert;
var should = chai.should();

// Test we can retrieve the posts from the database through the website
describe("Test the retrieval of posts from the database through the website",
function(){
    let api_url =  "/getPosts" // Web GET request url

    it("Talks with the DB in the server and Gets the posts data successfully",
function(done){
        chai.request(server.app)
            .get(api_url)
            .end(function(err, res) {
                // console.log(res)
                // check that the request response is successful
                expect(res, "Fail: Response status not 200").to.have.status(200);
                // check that the posts data in the response is json
                expect(res.body, "Fail: No \'Posts\' property in
json").have.property("posts");
                expect(res.body, "Fail: No Post(s) data found in
response").have.property("posts").with.length.greaterThanOrEqual(1);
                done();
            });
    });
```

```
});

// Test we can search the database and get the result
describe("Test we can search the database for post that contain a word and get the
results", function(){
    let api_url = "/Search";
    it("Check for posts that contain the word 'is'", function(done){
        let url_temp = api_url+"?search=is"
        console.log(url_temp);
        chai.request(server.app)
            .post(api_url)
            .query({search : 'is'})
            .end(function(err, res){
                expect(res, "Fail: Response status not 200").to.have.status(200);
                expect(res.body, "Fail: No \'Posts\' property in json from a
search of 'is'").have.property("posts");
                expect(res.body, "Fail: No Post(s) data found in response from a
search of 'is'").have.property("posts").with.length.greaterThanOrEqual(1);
                done();
            });
    });

    it("Check for posts that contain the word 'passion'", function(done){
        chai.request(server.app)
            .post(api_url)
            .query({search : 'passion'})
            .end(function(err, res){
                expect(res, "Fail: Response status not 200").to.have.status(200);
                expect(res.body, "Fail: No \'Posts\' property in json from a
search of 'passion'").have.property("posts");
                expect(res.body, "Fail: No Post(s) data found in response from a
search of 'passion'").have.property("posts").with.length.greaterThanOrEqual(1);
                done();
            });
    });
});
```