

|  |                        |
|--|------------------------|
| Capstone Project                         | Student Name: Vijina P |
| API Testing for Contact List Application |                        |

### Github repository

The source code and this document has been uploaded to the following git repository;

|        |   |
|--------|---|
| Url    | <a href="https://github.com/vijinabalakrishnan/Capstone_Protects/tree/main/API_Testing_Contact_List_Application">https://github.com/vijinabalakrishnan/Capstone_Protects/tree/main/API_Testing_Contact_List_Application</a> |
| Branch | main  |
| Access | Public  |

### Test Case 1: Add New User

Request Type: POST

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/users>

Request Payload:

```
{
  "firstName": "Test",
  "lastName": "User123",
  "email": "test_email12@fake.com",
  "password": "myPassword"
}
```

### Postman Chai Assertions

```
pm.test("Status code is 201", function () {
  pm.response.to.have.status(201);
});
pm.test("Response is JSON", function () {
  pm.response.to.be.withBody;
  pm.response.to.be.json;
});
```

### Response

```
{
  "user": {
    "_id": "689b7123ca4d840015a9c7b2",
    "firstName": "Test",
    "lastName": "User123",
    "email": "test_email12@fake.com",
    "__v": 1
  },
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJmYWQiaOiI2ODliNzEyM2NhNGQ4NDAwMTVhOWM3YjIiLCJpYXQiOiJlE3NTUwMTc1MDd9.QS68bNqQpuc7Q0f1g4Ic_LDFigtpPBTx0cBcgJYr6hc"
}
```

### Response Screenshot

POST https://thinking-tester-co GET https://thinking-tester-co + ...

HTTP https://thinking-tester-contact-list.herokuapp.com/users

POST https://thinking-tester-contact-list.herokuapp.com/users

Params Authorization Headers (10) Body ● Pre-request Script Tests ● Settings

```
1 pm.test("Status code is 201", function() {
2   pm.response.to.have.status(201);
3 });
4 pm.test("Response is JSON", function() {
5   pm.response.to.be.withBody;
6   pm.response.to.be.json;
7 });
```

Test scri  
and are  
receive  
tests sc

Snippe  
Get a v

Body Cookies (1) Headers (12) Test Results (2/2) 201 Created 312 i

Pretty Raw Preview Visualize JSON

```
1 {
2   "user": {
3     "_id": "689b7123ca4d840015a9c7b2",
4     "firstName": "Test",
5     "lastName": "User123",
6     "email": "test_email12@fake.com",
7     "__v": 1
```

## Test Results Screenshot

POST https://thinking-tester-co GET https://thinking-tester-co + ...

https://thinking-tester-contact-list.herokuapp.com/users

POST https://thinking-tester-contact-list.herokuapp.com/users

Params Authorization Headers (10) Body ● Pre-request Script Tests ● Settings

```
1 pm.test("Status code is 201", function () {
2   pm.response.to.have.status(201);
3 });
4 pm.test("Response is JSON", function () {
5   pm.response.to.be.withBody;
6   pm.response.to.be.json;
7 });
```

Test script and are received. tests script Snippets Get a vari

Body Cookies (1) Headers (12) Test Results (2/2) 201 Created 312 ms

All Passed Skipped Failed

PASS Status code is 201

PASS Response is JSON

Automate your tests with collection runner.

### Test Case 2:

Get user Profile

Request Type: GET

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/users/me>

Headers: Authorization Bearer {{token}}

Response Validation: Test for status code and message 200 OK

### Postman Chai Assertions

```
pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);
});
```

### Response screenshot

POST https://thinking-tester-co GET https://thinking-tester-co PATCH https://thinking-tester-co + ...



https://thinking-tester-contact-list.herokuapp.com/users/me

Save

GET



https://thinking-tester-contact-list.herokuapp.com/users/me

Send



Params

Authorization ●

Headers (9)

Body

Pre-request Script

Tests ●

Settings

Cookies

|                                     |               |  |
|-------------------------------------|---------------|--|
| <input checked="" type="checkbox"/> | Connection ⓘ  | keep-alive   |
| <input checked="" type="checkbox"/> | Content-Type  | application/json   |
| <input type="checkbox"/>            | Authorization | Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfaWQiOiI2O... |
|                                     | Key           | Value  |

Body Cookies Headers (11) Test Results (1/1)



200 OK 254 ms 868 B

Save Response ▾

Pretty

Raw

Preview

Visualize

JSON ▾



```
1 {
2   "_id": "689b7123ca4d840015a9c7b2",
3   "firstName": "Test",
4   "lastName": "User123",
5   "email": "test_email12@fake.com",
6   "__v": 1
7 }
```

## Test Results



https://thinking-tester-contact-list.herokuapp.com/users/me

GET



https://thinking-tester-contact-list.herokuapp.com/users/me

Params

Authorization ●

Headers (10)

Body

Pre-request Script

Tests ●

Settings

```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
```

Test scripts and are run ; received. Le tests scripts

Snippets

Get a variab

Body Cookies (1) Headers (11) Test Results (1/1)



200 OK 248 ms

All

Passed

Skipped

Failed

PASS

Status code is 200

## Test Case 3:

Update User

Request Type: PATCH

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/users/me>

Headers: Authorization Bearer {{token}}

Request Payload:

```
{
  "firstName": "Updated",
  "lastName": "Username",
  "email": "test_email12@fake.com",
  "password": "myNewPassword"
}
```

Validate for status code and message 200 OK

### Postman Chai Assertions

```
pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);
});
```

Response:

The screenshot shows a Postman interface for a PATCH request. The URL is `https://thinking-tester-contact-list.herokuapp.com/users/me`. The request type is PATCH. The headers tab is active, showing 11 headers. The body tab is also active, showing a JSON response.

| Key           | Value  |
|---------------|--|
| Authorization | Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfaWQiOiJ1b3R1ZXQ1IiwiaWF0IjoxNjU0MjU0MjU0Lm51b3R1ZXQ1 |
| Postman-Token | <calculated when request is sent>  |
| Content-Type  | text/plain   |

The response body is a JSON object:

```
{
  "_id": "689b7123ca4d840015a9c7b2",
  "firstName": "Test",
  "lastName": "Username",
  "email": "test_email12@fake.com",
  "__v": 1
}
```

### Test Result



<https://thinking-tester-contact-list.herokuapp.com/users/me>

## Authorization ●

Headers (10)

## Body

## Pre-request Script

Tests ●

## Settings

```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
```

Test scripts are written and are run after the tests are received. Learn more about [test scripts](#) ↗

## Snippets

## Get a variable

## Body

## Cookies (1)

Headers (11)

### Test Results (1/1)



200 OK

248 ms

865

All

Passed

Skipped

Failed

PASS

Status code is 200

### Test Case 4:

Log In User

Request Type: POST

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/users/login>

Request Payload:

```
{ "email": "test_email12@fake.com", "password": "myNewPassword" }
```

Test it in Postman and Get the Token and validate for status code 200 OK


## Postman Chai Assertions

```
pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);
});
```

**Response:**

```
{
  "user": {
    "_id": "689b7123ca4d840015a9c7b2",
    "firstName": "Test",
    "lastName": "Username",
    "email": "test_email12@fake.com",
    "__v": 2
  },
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfaWQiOiI2ODliNzEyM2NhNGQ4NDAwMTVhOWM3YjliLCJpYXQiOiJlE3NTUwMTg5Mzd9.XV4Vxj_w7eiuBvQVheXtY-gAi5yyJQvtNPt9QUJPIIk"
}
```

### Screenshot

 <https://thinking-tester-contact-list.herokuapp.com/users/login>

POST

https://thinking-tester-contact-list.herokuapp.com/users/login

Send

ParamsAuthorizationHeaders (11)Body ●Pre-request ScriptTests ●Settings

● none

● form-data

● x-www-form-urlencoded

● raw

● binary

JSON

1

{ "email": "test\_email12@fake.com", "password": "myNewPassword" }

BodyCookies (1)Headers (12)Test Results (1/1)200 OK1054 ms1.24 KBSave Response

Pretty

Raw

Preview

Visualize

JSON

6

"email": "test\_email12@fake.com",

7

"\_\_v": 2

8

},


9

"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfcm9udGkiOiI2OD1lNzEyM2NhNGQ4NDAwMTVhOWM3YjIiLCJpYXQiOi0jE3NTUwMTg5Mzd9.XV4Vxj\_w7eiuBvQVheXtY-gAi5yyJQvtNPt9QUJP1lk"

10

}

## Test Result

 <https://thinking-tester-contact-list.herokuapp.com/users/login>

POST

https://thinking-tester-contact-list.herokuapp.com/users/login

Send

ParamsAuthorizationHeaders (11)Body ●Pre-request ScriptTests ●Settings

1

pm.test("Status code is 200", function () {

2

pm.response.to.have.status(200);

3

});

Test scripts are written in JavaScript and are run after the response is received. Learn more about [tests scripts](#)

Snippets

[Get a variable](#)

bodyCookies (1)Headers (12)Test Results (1/1)200 OK1199 ms1.24 KBSave Response

All

Passed

Skipped

Failed

PASSStatus code is 200

## Test Case 5:

Add Contact

Request Type: POST

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/contacts>

Headers: Authorization Bearer {{token}}

Request Payload: { "firstName": "John", "lastName": "Doe", "birthdate": "1970-01-01", "email": "jdoe@fake.com", "phone": "8005555555", "street1": "1 Main St.", "street2": "Apartment A", "city": "Anytown", "stateProvince": "KS", "postalCode": "12345", "country": "USA" }

Validate for 201 Created

### Postman Chai Assertions

```
pm.test("Status code is 201", function () {  
  pm.response.to.have.status(201);  
});
```

### Response:

```
{  
  "_id": "689b77e014f67c0015f5caf6",  
  "firstName": "John",  
  "lastName": "Doe",  
  "birthdate": "1970-01-01",  
  "email": "jdoe@fake.com",  
  "phone": "8005555555",  
  "street1": "1 Main St.",  
  "street2": "Apartment A",  
  "city": "Anytown",  
  "stateProvince": "KS",  
  "postalCode": "12345",  
  "country": "USA",  
  "owner": "689b7123ca4d840015a9c7b2",  
  "__v": 0  
}
```

### Screenshot

The screenshot displays the Postman interface for an API request. At the top, the URL bar shows 'https://thinking-tester-contact-list.herokuapp.com/contacts'. Below the URL bar, the request method is set to 'POST'. The request body is a JSON object: { "firstName": "John", "lastName": "Doe", "birthdate": "1970-01-01", "email": "jdoe@fake.com", "phone": "8005555555", "street1": "1 Main St.", "street2": "Apartment A", "city": "Anytown", "stateProvince": "KS", "postalCode": "12345", "country": "USA" }. The response section shows the received JSON object: { "\_id": "689b77e014f67c0015f5caf6", "firstName": "John", "lastName": "Doe", "birthdate": "1970-01-01", "email": "jdoe@fake.com", "phone": "8005555555", "street1": "1 Main St.", "street2": "Apartment A", "city": "Anytown", "stateProvince": "KS", "postalCode": "12345", "country": "USA", "owner": "689b7123ca4d840015a9c7b2", "\_\_v": 0 }. The status bar at the bottom indicates a '201 Created' response with a response time of '1633 ms' and a size of '1.04 KB'.

HTTP https://thinking-tester-contact-list.herokuapp.com/contacts Save

POST https://thinking-tester-contact-list.herokuapp.com/contacts Send

Params Authorization Headers (12) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary JSON Beautify

```
1 { "firstName": "John", "lastName": "Doe", "birthdate": "1970-01-01", "email": "jdoe@fake.com", "phone":  
  "8005555555", "street1": "1 Main St.", "street2": "Apartment A", "city": "Anytown", "stateProvince":  
  "KS", "postalCode": "12345", "country": "USA" }
```

Body Cookies (1) Headers (11) Test Results (1/1) 201 Created 1633 ms 1.04 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {  
2   "_id": "689b77e014f67c0015f5caf6",  
3   "firstName": "John",  
4   "lastName": "Doe",  
5   "birthdate": "1970-01-01",  
6   "email": "jdoe@fake.com",  
7   "phone": "8005555555",  
8   "street1": "1 Main St.",  
9   "street2": "Apartment A",  
10  "city": "Anytown",  
11  "stateProvince": "KS",  
12  "postalCode": "12345",  
13  "country": "USA",  
14  "owner": "689b7123ca4d840015a9c7b2",  
15  "__v": 0  
16 }
```



## Test Results



https://thinking-tester-contact-list.herokuapp.com/contacts

POST



https://thinking-tester-contact-list.herokuapp.com/contacts

Params

Authorization ●

Headers (12)

Body ●

Pre-request Script

Tests ●

Settings

```
1 pm.test("Status code is 201", function () {
2   pm.response.to.have.status(201);
3 });
```

Test scripts :  
and are run a  
received. Lea  
[tests scripts](#)

Snippets

[Get a variabl](#)

Body

Cookies (1)

Headers (11)

Test Results (1/1)



201 Created

1633 ms

All

Passed

Skipped

Failed

PASS

Status code is 201

## Test Case 6:

Get Contact List

Request Type: GET

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/contacts>

Headers: Authorization Bearer {{token}}

Validate for 200 OK

## Postman Chai Assertions


```
pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);
});
```


## Response

```
[
  {
    "_id": "689b77e014f67c0015f5caf6",
    "firstName": "John",
    "lastName": "Doe",
    "birthdate": "1970-01-01",
    "email": "jdoe@fake.com",
    "phone": "8005555555",
    "street1": "1 Main St.",
    "street2": "Apartment A",
    "city": "Anytown",
    "stateProvince": "KS",
    "postalCode": "12345",
```


```
"country": "USA",  
"owner": "689b7123ca4d840015a9c7b2",  
"__v": 0  
}  
]
```


## Screenshot


HTTP  <https://thinking-tester-contact-list.herokuapp.com/contacts>



GET  <https://thinking-tester-contact-list.herokuapp.com/contacts> Send

Params Authorization ● Headers (10) Body Pre-request Script Tests ● Settings Co

Type Bearer...  Token eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ


The authorization header will be automatically generated when you send the request.  
[Learn more about authorization](#)  Store your secrets with end-to-end encryption locally using Vault. Store in V


Body Cookies (1) Headers (11) Test Results (1/1)  200 OK 251 ms 1.04 KB Save Respo

Pretty Raw Preview Visualize JSON  

```
1 [
2   {
3     "_id": "689b77e014f67c0015f5caf6",
4     "firstName": "John",
5     "lastName": "Doe",
6     "birthdate": "1970-01-01",
```

## Test Result

HTTP  <https://thinking-tester-contact-list.herokuapp.com/contacts>


GET  <https://thinking-tester-contact-list.herokuapp.com/contacts>

Params Authorization ● Headers (10) Body Pre-request Script Tests ● Settings

```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
```

Test scripts are run after the response is received. Learn [tests scripts](#)

Snippets  
[Get a variable](#)

Body Cookies (1) Headers (11) Test Results (1/1)  200 OK 251 ms 1.04 KB

All Passed Skipped Failed

PASS Status code is 200

### **Test Case 7:**

#### **Get Contact**

Request Type: GET

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6>

Headers Authorization Bearer {{token}}

Validate for 200 OK

#### **Postman Chai Assertions**

```
pm.test("Status code is 200", function () {  
  pm.response.to.have.status(200);  
});
```

#### **Response**

```
{  
  "_id": "689b77e014f67c0015f5caf6",  
  "firstName": "John",  
  "lastName": "Doe",  
  "birthdate": "1970-01-01",  
  "email": "jdoe@fake.com",  
  "phone": "8005555555",  
  "street1": "1 Main St.",  
  "street2": "Apartment A",  
  "city": "Anytown",  
  "stateProvince": "KS",  
  "postalCode": "12345",  
  "country": "USA",  
  "owner": "689b7123ca4d840015a9c7b2",  
  "__v": 0  
}
```

#### **SCreenshot**

 <https://thinking-tester-contact-list.herokuapp.com/contacts>

 S

GET



<https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6>

Send

Params Auth ● Headers (10) Body Pre-req. Tests ● Settings

Coo

raw



JSON



Beau

1

Body



200 OK

1586 ms

1.03 KB

Save Respon

Pretty

Raw

Preview


Visualize

JSON



```
1 {
2   "_id": "689b77e014f67c0015f5caf6",
3   "firstName": "John",
4   "lastName": "Doe",
5   "birthdate": "1970-01-01",
6   "email": "jdoe@fake.com",
7   "phone": "8005555555",
8   "isActive": true,
9   "address": {
10    "street": "123 Main St",
11    "city": "New York",
12    "state": "NY",
13    "zip": "10001"
14  }
15 }
```

## Test Result

 <https://thinking-tester-contact-list.herokuapp.com/contacts>

GET



[https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6 ...](https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6...)

Params

Authorization ●

Headers (10)

Body

Pre-request Script

Tests ●


Settings

```
1 pm.test("Status code is 200", function () {  
2   pm.response.to.have.status(200);  
3 });
```

Test scripts are  
and are run aft  
received. Learn  
[tests scripts](#) ↗

Snippets

[Get a variable](#)

Body Cookies (1) Headers (11) Test Results (1/1)  200 OK 1586 ms 1.0

All

Passed

Skipped

Failed

PASS

Status code is 200

### Test Case 8:

#### Update Contact

Request Type: PUT

End Point: <https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6>

Headers Authorization Bearer {{token}}

Request Payload

```
{
  "firstName": "Amy",
  "lastName": "Miller",
  "birthdate": "1992-02-02",
  "email": "amiller@fake.com",
  "phone": "8005554242",
  "street1": "13 School St.",
  "street2": "Apt. 5",
  "city": "Washington",
  "stateProvince": "QC",
  "postalCode": "A1A1A1",
  "country": "Canada"
}
```

Validate for Email and 200 OK

#### Postman Chai Assertions

```
pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);
});
```

#### Response Screenshot

The screenshot displays a Postman test run for a PUT request. The URL bar shows the endpoint: `https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6`. The request method is set to `PUT`. The response status is `200 OK` with a response time of `315 ms` and a size of `1.04 KB`. The response body is shown in JSON format, indicating the contact was updated successfully with a new `_id` and the `firstName` field.

HTTP `https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6`

`PUT` `https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6` `Send`

Params Auth ● Headers (12) Body ● Pre-req. Tests ● Settings

raw ▼ JSON ▼

```
1 {
2   "firstName": "Amy",
3   "lastName": "Miller",
4   "birthdate": "1992-02-02",
5   "email": "amiller@fake.com",
6   "phone": "8005554242",
7   "street1": "13 School St.",
8   "street2": "Apt. 5",
9   "city": "Washington",
10  "stateProvince": "QC",
11  "postalCode": "A1A1A1",
12  "country": "Canada"
13 }
```

body ▼ 200 OK 315 ms 1.04 KB `Save Response`


Pretty Raw Preview Visualize JSON ▼

```
1 {
2   "_id": "689b77e014f67c0015f5caf6",
3   "firstName": "Amy",
4   "lastName": "Miller",
5   "birthdate": "1992-02-02",
6   "email": "amiller@fake.com",
7   "phone": "8005554242",
8   "street1": "13 School St.",
9   "street2": "Apt. 5",
10  "city": "Washington",
11  "stateProvince": "QC",
12  "postalCode": "A1A1A1",
13  "country": "Canada"
14 }
```





## Test Result

 <https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6>

PUT

<https://thinking-tester-contact-list.herokuapp.com/contacts/689b77e014f67c0015f5caf6>

Params

Authorization ●

Headers (12)

Body ●

Pre-request Script

Tests ●

Settings

```
1 pm.test("Status code is 200", function () {  
2   pm.response.to.have.status(200);  
3 });
```

Test scripts are written in JavaScript and are run after the response is received. Learn more about [tests scripts](#) ↗

Snippets

[Get a variable](#)

Body

Cookies (1)

Headers (11)

Test Results (1/1)



200 OK

315 ms

1.04 KB

All

Passed

Skipped

Failed

PASS

Status code is 200

## Test Case 9:

Update Contact

Request Type: PATCH

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/contacts/>

Headers Authorization Bearer {{token}}

Request Payload: { "firstName": "Anna" }

Validate for first name and 200 OK

## Postman Chai Assertions

```
pm.test("Status code is 200", function () {  
  pm.response.to.have.status(200);  
});
```

## Response screenshot



https://thinking-tester-contact-list.herokuapp.com/contacts/



PATCH



https://thinking-tester-contact-list.herokuapp.com/contacts/

Send

Params

Authorization ●

Headers (11)

Body ●

Pre-request Script

Tests

Settings

● none

● form-data

● x-www-form-urlencoded

● raw

● binary

JSON ▼

B

```
1 {  
2   "firstName": "Anna"  
3 }
```

Body

Cookies (1)

Headers (11)

Test Results (1/1)



200 OK

31.29 s

1.2 KB

Save Res

## Test Screenshot



https://thinking-tester-contact-list.herokuapp.com/contacts/



PATCH



https://thinking-tester-contact-list.herokuapp.com/contacts/

Send

Params

Authorization ●

Headers (11)

Body ●

Pre-request Script

Tests

Settings

● none

● form-data

● x-www-form-urlencoded

● raw

● binary

JSON ▼

B

```
1 {  
2   "firstName": "Anna"  
3 }
```

Body

Cookies (1)

Headers (11)

Test Results (1/1)



200 OK

31.29 s

1.2 KB

Save Res

All

Passed

Skipped

Failed

PASS

Status code is 200

## Test Case 10:

### Logout User

Request Type: POST

Endpoint: <https://thinking-tester-contact-list.herokuapp.com/users/logout>

Headers Authorization Bearer {{token}}

Validate for 200 OK

### Postman Chai Assertions

```
pm.test("Status code is 200", function () {  
  pm.response.to.have.status(200);  
});
```

## Response screenshot

 <https://thinking-tester-contact-list.herokuapp.com/users/logout>

POST

https://thinking-tester-contact-list.herokuapp.com/users/logout

Se

Params

Authorization ●

Headers (10)

Body

Pre-request Script

Tests

Settings

Type


Bearer... ▼

Token

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9

The authorization header will be automatically generated when you send the request.

[Learn more about authorization](#) ➔

 Store your secrets with end-to-end encryption locally using Vault.

Store

Body

Cookies (1)

Headers (9)

Test Results

200 OK

1169 ms

663 B

Save Re


Pretty

Raw

Preview


Visualize

Text ▼



1

## Test Result

 <https://thinking-tester-contact-list.herokuapp.com/users/logout>

POST

https://thinking-tester-contact-list.herokuapp.com/users/logout

Params

Authorization ●

Headers (10)

Body

Pre-request Script

Tests ●

Settings

1 pm.test("Status code is 200", function () {

2 pm.response.to.have.status(200);

3 });

Test scripts are written in JavaScript and are run after the response is received. Learn more about [test scripts](#) ➔

Snippets

[Get a variable](#)

Body

Cookies (1)

Headers (9)

Test Results (1/1)

200 OK

263 ms

663 B

All

Passed

Skipped

Failed

PASS

Status code is 200

## RestAssured test cases

Checked into the below github repository(Same as above)

|        |   |
|--------|---|
| Url    | <a href="https://github.com/vijinabalakrishnan/Capstone_Projects/tree/main/API_Testing_Contact_List_Application">https://github.com/vijinabalakrishnan/Capstone_Projects/tree/main/API_Testing_Contact_List_Application</a> |
| Branch | main  |

|        |        |
|--------|--------|
| Access | Public |
|--------|--------|

## Source code:

/src/test/java/RestAPITesting.java

```
package test.java;
```

```
import io.restassured.RestAssured;
import io.restassured.http.ContentType;
import io.restassured.response.Response;
```

```
import org.testng.Assert;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;
```

```
import static io.restassured.RestAssured.given;
import static org.hamcrest.Matchers.equalTo;
```

```
public class RestAPITesting {
    private String token;
    private String contactId;

    // @Test -- Uncomment to register a new user
    public void testAddNewUser() {
        RestAssured.baseURI = "https://thinking-tester-contact-list.herokuapp.com";

        String requestBody = ""
        {
            "firstName": "Test",
            "lastName": "User123",
            "email": "test_email125@fake.com",
            "password": "myPassword"
        }
        """;

        Response response = given()
            .contentType(ContentType.JSON)
            .body(requestBody)
            .when()
            .post("/users")
            .then()
            .statusCode(201)
            .statusLine(equalTo("HTTP/1.1 201 Created"))
            .extract().response();

        String token = response.jsonPath().getString("token");

        token.codePoints();
    }
}
```

```
@BeforeClass
```

```

public void setupAndLogin() {
    RestAssured.baseURI = "https://thinking-tester-contact-list.herokuapp.com";

    // Login to get token (assumes user already exists)
    String loginBody = ""
        {
            "email": "test_email125@fake.com",
            "password": "myPassword"
        }
        "";

    Response loginResponse = given()
        .contentType(ContentType.JSON)
        .body(loginBody)
    .when()
        .post("/users/login")
    .then()
        .statusCode(200)
        .extract().response();

    token = loginResponse.jsonPath().getString("token");
}

```

```

@Test(priority = 1)
public void testGetUserProfile() {
    given()
        .header("Authorization", "Bearer " + token)
    .when()
        .get("/users/me")
    .then()
        .statusCode(200)
        .statusLine(equalTo("HTTP/1.1 200 OK"));
}

```

```

@Test(priority = 2)
public void testUpdateUser() {
    String updateBody = ""
        {
            "firstName": "Updated",
            "lastName": "Username",
            "email": "test_email125@fake.com",
            "password": "myPassword"
        }
        "";

    given()
        .header("Authorization", "Bearer " + token)
        .contentType(ContentType.JSON)
        .body(updateBody)
    .when()
        .patch("/users/me")
    .then()
        .statusCode(200)

```

```
        .statusLine(equalTo("HTTP/1.1 200 OK"));
    }
```

```
@Test(priority = 3)
public void testAddContact() {
    String contactBody = ""
        {
            "firstName": "John",
            "lastName": "Doe",
            "birthdate": "1970-01-01",
            "email": "test_email125@fake.com",
            "phone": "8005555555",
            "street1": "1 Main St.",
            "street2": "Apartment A",
            "city": "Anytown",
            "stateProvince": "KS",
            "postalCode": "12345",
            "country": "USA"
        }
        "";

    given()
        .header("Authorization", "Bearer " + token)
        .contentType(ContentType.JSON)
        .body(contactBody)
    .when()
        .post("/contacts")
    .then()
        .statusCode(201)
        .statusLine(equalTo("HTTP/1.1 201 Created"));
}
```

```
@Test(priority = 4)
public void testGetContactList() {
    Response searchResponse = given()
        .header("Authorization", "Bearer " + token)
        .contentType(ContentType.JSON)
    .when()
        .get("/contacts")
    .then()
        .statusCode(200)
        .statusLine(equalTo("HTTP/1.1 200 OK"))
        .extract().response();

    contactId = searchResponse.jsonPath().getString("[0]._id");//store the search result
}
```

```
@Test(priority = 5)
public void testGetContactById() {
    given()
        .header("Authorization", "Bearer " + token)
        .contentType(ContentType.JSON)
    .when()
```

```

        .get("/contacts/" + contactId)
    .then()
        .statusCode(200)
        .statusLine(equalTo("HTTP/1.1 200 OK"));
}

```

```

@Test(priority = 6)
public void testUpdateContact() {
    System.out.println("First Contact ID: " + contactId);
    String updateBody = ""
    {
        "firstName": "Amy",
        "lastName": "Miller",
        "birthdate": "1992-02-02",
        "email": "test_email125@fake.com",
        "phone": "8005554242",
        "street1": "13 School St.",
        "street2": "Apt. 5",
        "city": "Washington",
        "stateProvince": "QC",
        "postalCode": "A1A1A1",
        "country": "Canada"
    }

    "";
}

```

```

given()
    .header("Authorization", "Bearer " + token)
    .contentType(ContentType.JSON)
    .body(updateBody)
.when()
    .put("/contacts/" + contactId)
.then()
    .statusCode(200)
    .body("email", equalTo("test_email125@fake.com"))
    .statusLine(equalTo("HTTP/1.1 200 OK"));
}

```

```

@Test(priority = 7)
public void testPatchUpdateContact() {
    String patchBody = ""
    {
        "firstName": "Anna"
    }
    "";
}

```

```

given()
    .header("Authorization", "Bearer " + token)
    .contentType(ContentType.JSON)
    .body(patchBody)
.when()
    .patch("/contacts/" + contactId)
.then()
    .statusCode(200)
}

```

```
        .body("firstName", equalTo("Anna"))
        .statusLine(equalTo("HTTP/1.1 200 OK"));
    }

    @Test(priority = 8)
    public void testLogoutUser() {
        given()
            .header("Authorization", "Bearer " + token)
            .contentType(ContentType.JSON)
        .when()
            .post("/users/logout")
        .then()
            .statusCode(200)
            .statusLine(equalTo("HTTP/1.1 200 OK"));
    }
}
```