

Swagger API Check - Defect List

D001 - Login API intermittently fails with 500 Internal Server Error

ENSEK API Test / Login

POST https://ensekapi.candidatetest.azurewebsites.net/login

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

```
6 };;
7
8 //Check API Response contains a JSON body
9 pm.test("Response has a JSON body", function () {
10   pm.response.to.be.json;
11 });
12
13 //Check if API Response contains an access_token property
14 pm.test("Response has an access_token property", function () {
15   var jsonData = pm.response.json();
16   pm.expect(jsonData.access_token).to.be.a('string');
17 });
18
19 //Alternate less effective test to find 'access_token' string/text in the API Response
20 //Check API Response contains string 'access_token'
```

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

Snippets

- Response time is less than 200ms
- Status code: Successful POST request
- Status code: Code name has string
- Response body: Convert XML body to a JSON Object
- Use Tiny Validator for JSON data

Body Cookies Headers (6) Test Results (1/5) Status: 500 INTERNAL SERVER ERROR Time: 212 ms Size: 258 B Save Response

Pretty Raw Preview Visualize JSON

```
1
2 "message": "Internal server error"
3
```

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All Passed Skipped Failed

- FAIL** Status code is 200 | AssertionError: expected response to have status code 200 but got 500
- PASS** Response has a JSON body
- FAIL** Response has an access_token property | AssertionError: expected undefined to be a string
- FAIL** Response body matches string 'access_token' | AssertionError: expected '{"message":"Internal server error"}\n' to include 'access_token'
- FAIL** Response message property contains the value 'Success' | AssertionError: expected 'Internal server error' to deeply equal 'Success'

D002 - Buy API does not work as expected for purchase of Gas Energy Type

When we input the ID = '1' (Gas) & quantity = '0':

- Purchase quantity in API Response is wrong.
It is displayed as 3000 units (which is the quantity available to buy).
- Remaining quantity in API Response is wrong.
It is displayed as 0 units (which is the quantity purchased).
- We need to add a comma ',' in the response text to add a pause between cost per unit and remaining quantity of units.

ENSEK API Test / Buy Order

PUT <https://ensekapicandidatetest.azurewebsites.net/buy/1/0> Send

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

```
6  };
```

```
7
```

```
8  //Check API Response contains a JSON body
```

```
9  pm.test("Response has a JSON body", function () {
```

```
10    pm.response.to.be.json;
```

```
11  });
```

```
12
```

```
13  //Check API Response contains message property and Order ID string/text value
```

```
14  pm.test("Verify API Response contains message property & Order ID text", function () {
```

```
15    var jsonData = pm.response.json();
```

```
16    pm.expect(jsonData.message).to.be.a("string") &&
```

```
17    pm.expect(jsonData.message).to.include("Your order id is");
```

```
18  });
```

```
19
```

```
20
```

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

Snippets

- Response body: Contains string
- Response body: JSON value check
- Response body: Is equal to a string
- Response headers: Content-Type header check
- Response time is less than 200ms

Body Cookies Headers (6) Test Results (2/3) Status: 200 OK Time: 143 ms Size: 350 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
```

```
2    "message": "You have purchased 3000 m³ at a cost of 0.0 there are 0 units remaining. Your order id is
```

```
3    3f73c7b7-2692-4ac5-b7a0-fbd16aa90711."
```

D003 - Buy API for Oil Energy Type displays orderid instead of order id (Missing space)

ENSEK API Test / Buy Order

PUT <https://ensekapicandidatetest.azurewebsites.net/buy/4/0> Send

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

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (6) Test Results (2/3) Status: 200 OK Time: 144 ms Size: 346 B Save Response

Pretty Raw Preview Visualize JSON

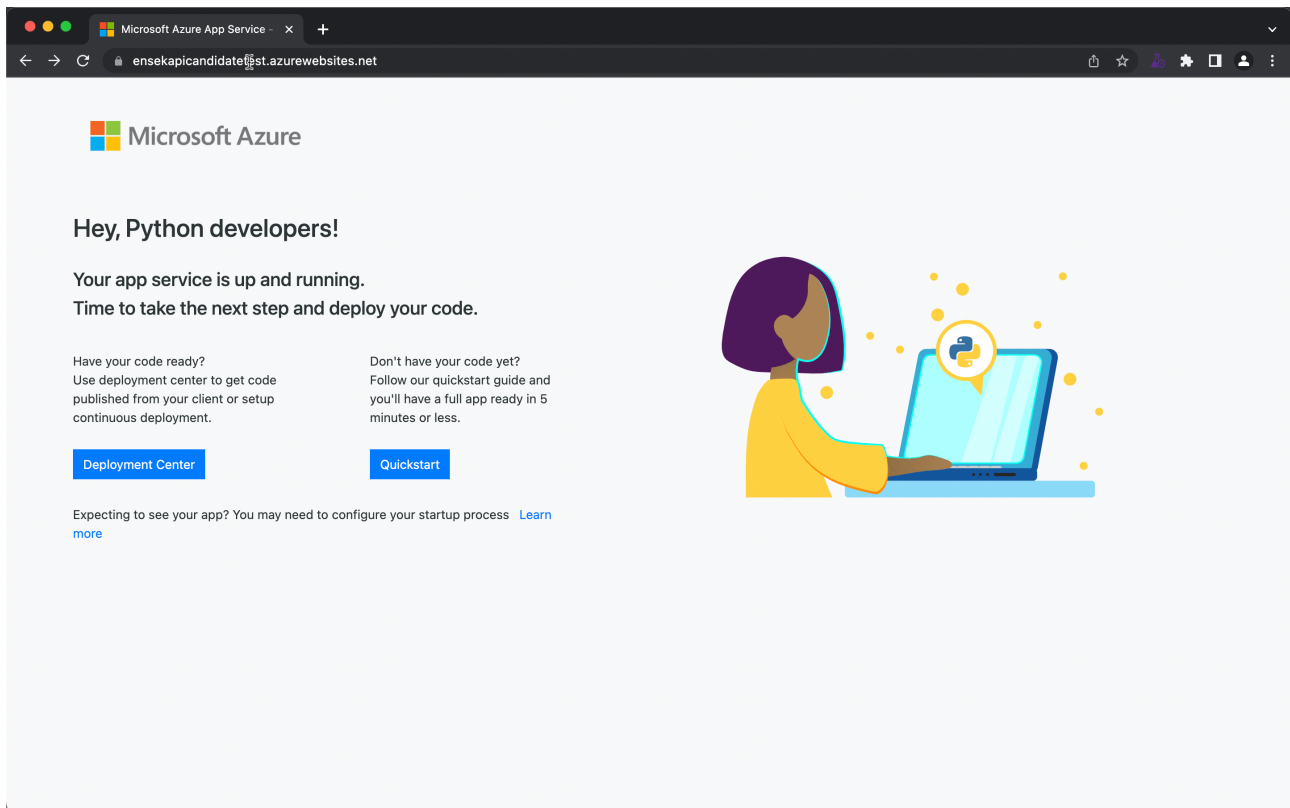
```
1  {
```

```
2    "message": "You have purchased 0 Litres at a cost of 0.0 there are 20 units remaining. Your orderid is
```

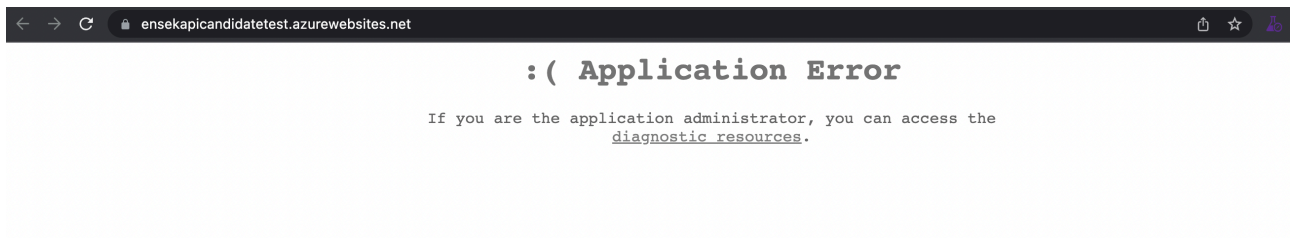
```
3    af336d12-74fd-4876-98e0-7e1fd74a2b04."
```

D004 - Swagger API Link crashed during testing

On Thursday - October 13th



On Friday - October 14th



Observations:

Obs001: BUY API accepts direct input in the URL for EnergyID and Quantity

The two inputs are directly accepted in the API instead of being assigned to a variable which seems like a bad design.

They are not designed to be Request parameters and do not form the Key-Value pair that we generally see for input variables in APIs.

With the current design, we need to set the two input values at the environment level and cannot pass it from within the API pre-request / params sections.

If manually testing it, one can make the simple mistake of confusing between the 2 values and pass EnergyID in place of Quantity and vice-versa.

