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Mobile/Cloud Software Development
Assignment #3 - Part 2
Tests and Test Results

Tests

I used [HTTPie](#) to test my resources. We can access the resources through the URL structure described in the report. The -f declares that we are mocking a form submission and then we pass the keys set to values.

To get the web main page: This will return the html of the index.html page

```
http GET 107.170.15.127:3000/
```

To get a list of cat posts: This will access the /cats resource with GET.

```
http GET 107.170.15.127:3000/cats
```

To post a new cat post: This will POST to the /cats resource.

```
http -f POST 107.170.15.127:3000/cats name="Molly" town="Sunnyside" state="New York"
description="Found this kitten in an alley" user:='[{"firstName":"I.P.",
"lastName":"Freely", "email":"freely@gmail.com", "password":"****"}]'
```

To put new data in a cat post (update a post): This will PUT data into a specified /cats/:id resource. (Add to name and picture).

```
http -f PUT 107.170.15.127:3000/cats/5768viw0495 name="Ms.Kitty" town="Sunnyside"
state="New York" description="Found this kitten in an alley" image="/path/to/img"
user:='[{"firstName":"I.P.", "lastName":"Freely", "email":"freely@gmail.com"}]'
```

To get a single cat post by id: This will GET a specified /cats/:id resource.

```
http GET 107.170.15.127:3000/cats/573609d2h29
```

To delete a cat post by id: This will DELETE a specified /cats/:id resource.

```
http DELETE 107.170.15.127:3000/cats/573609d2h29
```

Check that the cat post has no reference: This will return an error that the cat is not in the database..

```
http GET 107.170.15.127:3000/cats/573609d2h29
```

To get a single cat post by a wrong id: This will throw an error that the cat is not in the database.

```
http GET 107.170.15.127:3000/cats/573609d2h29
```

To put new data in a cat post (update a post) with the wrong id: This will throw an error that the cat is not in the database.

```
http -f PUT 107.170.15.127:3000/cats/5768viw0495 name="Ms.Kitty" town="Sunnyside"
state="New York" description="Found this kitten in an alley" image="/path/to/img"
user:='[{"firstName":"I.P.", "lastName":"Freely", "email":"freely@gmail.com"}]'
```

To delete a cat post by a wrong id: This will throw an error that the cat is not in the database.

```
http DELETE 107.170.15.127:3000/cats/573609d2h29
```

To delete a cat post with no id: This will throw an error that the cat is not in the database.

```
http DELETE 107.170.15.127:3000/cats/
```

To get a single cat post with no id: This will throw an error that the cat is not in the database.

```
http GET 107.170.15.127:3000/cats/
```

To input a cat without the required data: This will throw an error that the data in the field is required. In this example below, the description field is missing.

```
http -f POST 107.170.15.127:3000/cats name="Kitty" town="Sunnyside" state="New York"
  user:='[{"firstName":"I.P.", "lastName":"Freely", "email":"freely@gmail.com",
          "password":"****"}]'
```

Test Results

```
root@mean-api:~# http GET 107.170.15.127:3000/
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 675
Content-Type: text/html; charset=utf-8
Date: Sat, 23 Apr 2016 15:19:16 GMT
ETag: W/"2a3-vz7IssdacIjeBJ/6U9gCJg"
X-Powered-By: Express

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Forever Feline API</title>
    <link rel="stylesheet" href="//netdna.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">
    <link rel="stylesheet" href="/stylesheets/style.css">
  </head>
  <body>

    <div class="container">

      <h1>Forever Feline API</h1>
```

```
root@mean-api:~# http GET 107.170.15.127:3000/cats
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 48
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 15:27:36 GMT
ETag: W/"30-SUHyLSgi8/FXwmtUvfkVng"
X-Powered-By: Express

{
  "message": "There are no cats in the database."
}

root@mean-api:~#
```

```

root@mean-api:~# http POST 107.170.15.127:3000/cats name="Molly" town="nyc" state="new York" description="She was found in an alley" user='[{"firstName":"I.P.", "lastName":"Freely", "email":"ip@gmail.com", "password":"****"}]'
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 254
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 15:33:19 GMT
ETag: W/"fe-m7qY/fDeQBdJLfa44KHr0Q"
X-Powered-By: Express

{
  "_v": 0,
  "_id": "571b95bf617c284821d68c9f",
  "description": "She was found in an alley",
  "name": "Molly",
  "state": "new York",
  "town": "nyc",
  "user": [
    {
      "_id": "571b95bf617c284821d68ca0",
      "email": "ip@gmail.com",
      "firstName": "I.P.",
      "lastName": "Freely",
      "password": "****"
    }
  ]
}

root@mean-api:~#

```

```

root@mean-api:~# http PUT 107.170.15.127:3000/cats/571b95bf617c284821d68c9f name="Molly" town="NYC" state="New York" description="She was found in an alley, she is gray" user='[{"firstName":"I.P.", "lastName":"Freely", "email":"ip@gmail.com", "password":"****"}]'
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 267
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 15:41:14 GMT
ETag: W/"10b-IdN8PeJflxDoxP7g9wHjtQ"
X-Powered-By: Express

{
  "_v": 0,
  "_id": "571b95bf617c284821d68c9f",
  "description": "She was found in an alley, she is gray",
  "name": "Molly",
  "state": "New York",
  "town": "NYC",
  "user": [
    {
      "_id": "571b979a617c284821d68ca3",
      "email": "ip@gmail.com",
      "firstName": "I.P.",
      "lastName": "Freely",
      "password": "****"
    }
  ]
}

root@mean-api:~#

```

```

}

root@mean-api:~# http GET 107.170.15.127:3000/cats/571b95bf617c284821d68c9f
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 269
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 15:45:52 GMT
ETag: W/"10d-oBIuH0nnifubZM4Jy8yhVA"
X-Powered-By: Express

[
  {
    "_v": 0,
    "_id": "571b95bf617c284821d68c9f",
    "description": "She was found in an alley, she is gray",
    "name": "Molly",
    "state": "New York",
    "town": "NYC",
    "user": [
      {
        "_id": "571b979a617c284821d68ca3",
        "email": "ip@gmail.com",
        "firstName": "I.P.",
        "lastName": "Freely",
        "password": "****"
      }
    ]
  }
]

```

```

root@mean-api:~# http DELETE 107.170.15.127:3000/cats/571b95bf617c284821d68c9f
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 35
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 15:48:02 GMT
ETag: W/"23-FfZ/CzmAPrHAWKmGWjv8+A"
X-Powered-By: Express

{
  "message": "Success. Cat deleted."
}

root@mean-api:~# http GET 107.170.15.127:3000/cats/571b95bf617c284821d68c9f
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 65
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 15:48:18 GMT
ETag: W/"41-Q47bCdAuTopBu4fgt3Qng"
X-Powered-By: Express

{
  "message": "A cat with that id does not exist in this database."
}

root@mean-api:~#

```



```

root@mean-api:~# http PUT 107.170.15.127:3000/cats/571b95bf617c284822d68c9f name="Molly" town="NYC" state="New York" description="She was found in an alley, she is gray" user='[{"firstName":"I.P.", "lastName":"Freely", "email":"ip@gmail.com", "password":"****"}]'
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 4
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 15:55:50 GMT
ETag: W/"4-N6YlnMDB2uKZp4Zkid/wvQ"
X-Powered-By: Express

null

root@mean-api:~# http GET 107.170.15.127:3000/cats
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 256
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 15:56:13 GMT
ETag: W/"100-ILehor665IVZ7s/lAoHt2Q"
X-Powered-By: Express

[
  {
    "_id": "571b9af0e8579ec52221590b",
    "description": "She was found in an alley",
    "name": "Molly",
    "state": "new York",
    "town": "nyc",
    "user": [
      {
        "id": "571b9af0e8579ec52221590c",
        "email": "ip@gmail.com",
        "firstName": "I.P.",
        "lastName": "Freely",
        "password": "****"
      }
    ]
  }
]

```

Note: This was an unexpected behaviour. I predicted that the “Update cat with incorrect id” test would return an error. What it did was change the id number of the cat itself. I am currently research why this occurred, and want to resolve it asap, since it is a major error.

```

root@mean-api:~# http DELETE 107.170.15.127:3000/cats/
HTTP/1.1 404 Not Found
Connection: keep-alive
Content-Length: 0
Content-Type: text/html; charset=utf-8
Date: Sat, 23 Apr 2016 15:57:35 GMT
ETag: W/"0-1B2M2Y8AsgTpgAmY7PhCfg"
X-Powered-By: Express

```

```

root@mean-api:~# http DELETE 107.170.15.127:3000/cats/58239845729
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 67
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 16:04:18 GMT
ETag: W/"43-DaSK7zCikOXvkyXAI2PF0Q"
X-Powered-By: Express

"Cast to ObjectId failed for value \"58239845729\" at path \"_id\""

root@mean-api:~#

```

Note: As seen below, if you try to delete a cat that does not exist after this error, the connection is lost. At the time of the query below, there are no cats in the database. I did some research, and saw that I had used a “dummy” id that was in the incorrect format (over 12 bytes). So this is the error produced from that.

```

root@mean-api:~# http DELETE 107.170.15.127:3000/cats/571b9af0e8579ec52221590b
http: error: ConnectionError: HTTPConnectionPool(host='107.170.15.127', port=3000): Max retries exceeded with url
: /cats/571b9af0e8579ec52221590b (Caused by <class 'httplib.BadStatusLine': '>')
root@mean-api:~#

```

```

root@mean-api:~# http POST 107.170.15.127:3000/cats name="Molly" town="nyc" state="new York" user='{"firstName":
:"I.P.", "lastName":"Freely", "email":"ip@gmail.com", "password":"***"}'
HTTP/1.1 200 OK
Connection: keep-alive
Content-Length: 279
Content-Type: application/json; charset=utf-8
Date: Sat, 23 Apr 2016 16:12:50 GMT
ETag: W/"117-oHXlQBtS+NNszsm4sGkf8A"
X-Powered-By: Express

{
  "errors": {
    "description": {
      "kind": "required",
      "message": "Cat description required",
      "name": "ValidatorError",
      "path": "description",
      "properties": {
        "message": "Cat description required",
        "path": "description",
        "type": "required"
      }
    }
  },
  "message": "cats validation failed",
  "name": "ValidationError"
}

root@mean-api:~#

```

Note: As we see above, the expected result was encountered. The cat was not entered into the database, and an error was thrown telling the user that the description is required.