David White
CS493_400_F18
11-03-18
Week5 -Advanced REST

Ship

<u>Display Ships</u>
GET /ships

Description: Displays all ships, returns 200 status and the JSON representation of the data, if successful. Response is a paginated JSON with the next link for the remaining data.
Expects Content-Type to be "application/json", will return 406 status if any other Content-Type is used.

Response:
```
{
    "items": [
        {
            "length": 100,
            "name": "Ghost Ship",
            "type": "A very scary type",
            "id": "5630742793027584",
            "self": "http://advanced-rest.appspot.com/ships/5630742793027584"
        },
        {
            "name": "Santa Maria",
            "type": "Tall Ship",
            "length": 70,
            "id": "5635703144710144",
            "self": "http://advanced-rest.appspot.com/ships/5635703144710144"
        },
        {
            "type": "Freighter",
            "length": 729,
            "name": "Edmund Fitzgerald",
            "id": "5639026912526336",
            "self": "http://advanced-rest.appspot.com/ships/5639026912526336"
        }
    ],
    "next": "http://advanced-rest.appspot.com/ships?
cursor=CioSJGoPZH5hZHZhbmNlZC1yZXN0chELEgRTaGlwGICAgKCklYIKDBgAIAA="
}
```

Status: 200 for successful response.
　　　　406 for Content-Type other than "application/json"

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Display a Ship

GET /ships/{id}

Description: Displays an individual ship, returns 200 status and the JSON or HTML representation of the data, if successful. Response is either JSON or HTML, dependent upon if Content-Type is either "application/json" or "text/html". A status of 406 will return if any other Content-Type is used.

Response:

HTML response:

```
<ul>
   <li>ID: 5630742793027584</li>
   <li>Name: Ghost Ship</li>
   <li>Type: A very scary type</li>
   <li>Length: 100</li>
   <li>Self: http://advanced-rest.appspot.com/ships/5630742793027584</li>
</ul>
```

JSON response:

```
[
   {
      "type": "A very scary type",
      "length": 100,
      "name": "Ghost Ship",
      "id": "5630742793027584",
      "self": "http://advanced-rest.appspot.com/ships/5630742793027584"
   }
]
```

Status:
200 is successful
406 if Content-Type is incorrect.

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Add a Ship
POST /ships/

Description: Adds a ship to the database. Returns a status of 201 and a self link to the new data, if successful.

Body example:
```
{
        "name":"Costa Concordia",
        "type":"Cruise ship",
        "length": 952
}
```

Response:

{ "self": "http://advanced-rest.appspot.com/ships/5652786310021120" }

Status: 201 if successful

Update Ship
PUT /ships/{id}

Description: Updates all or individual properties. Returns 303 status with Location in header, if successful.

Body example:

```
{
        "name":"FedMex",
        "type":"Mexican Food Ship",
        "length": 233
}
```

individual properties can be modified, as shown below.
```
{
        "type":"Food Ship"
}
```

Response: None

Status: 303 if successful

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DELETE Ship

DELETE /ships/{id}

Description: Deletes a ship. Returns a 404 status if successful.

Response: None

Status: 204 if successful

Notes:

The only actions that may be perform on the route(/) directory are GET and PUT if any other verb is used, a 405 status will be returned.