

Assignment 8: Docker Containers

CS 493: Cloud Application Development

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GCP URL: <http://34.125.5.239:8000/>

High Level Overview

Details regarding adding and viewing boats are below. A boat may be added via a POST to "<http://34.125.5.239:8000/boats/>". If successful, one of the attributes returned will be an id. The boat can then be viewed via a GET with that id, e.g. <http://34.125.5.239:8000/boats/5709113312935936>

Create a Boat

Allows you to create a new boat.

POST /boats

Request

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	The name of the boat.	Yes
type	The type of the boat. E.g., Sailboat, Catamaran, etc.	Yes
length	Length of the boat in feet.	Yes

Request Body Example

{

```
"name": "Sea Witch",  
"type": "Catamaran",  
"length": 28  
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	<p>If the request is missing any of the 3 required attributes, the boat must not be created, and 400 status code must be returned.</p> <p>You don't need to validate the values of the attributes and can assume that if the request contains any of the listed attributes, then that attribute's value is valid.</p> <p>You can also assume that the request will not contain any extraneous attribute (i.e., the request JSON will never contain any attribute that is not listed above).</p>

Response Examples

Success

Status: 201 Created

```
{  
  "id": 123,  
  "name": "Sea Witch",  
  "type": "Catamaran",  
  "length": 28  
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
```

View a Boat

Allows you to get an existing boat

GET /boats/:boat_id

Request

Path Parameters

Name	Description
boat_id	ID of the boat

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	404 Not Found	No boat with this boat_id exists

Response Examples

Success (no load assigned yet)

Status: 200 OK

```
{
  "id": 6372443765604352,
  "length": 28,
  "loads": [],
  "name": "Sea Witch",
  "self": "http://hw4-paceym.uw.r.appspot.com/boats/6372443765604352",
  "type": "Catamaran"
}
```

Success (load assigned)

Status: 200 OK

```
{
  "id": 4917632511770624,
  "length": 28,
  "loads": [
    {
      "id": 6268758825893888,
      "self": "http://hw4-paceym.uw.r.appspot.com/loads/6268758825893888"
    }
  ],
  "name": "Sea Witch",
  "self": "http://hw4-paceym.uw.r.appspot.com/boats/4917632511770624",
  "type": "Catamaran"
}
```

Failure

Status: 404 Not Found

```
{
  "Error": "No boat with this boat_id exists"
}
```