# Assignment 8: API Spec

CS 493 Spring 2022 Susan Liu 5/21/2022

App Site: http://34.168.199.118:8000/

# Create a Boat

Allows you to create a new boat.

POST /boats

# Request

**Request Parameters** 

None

Request Body

Required

Request Body Format

**JSON** 

## Request JSON Attributes

Name	Туре	Description	Required?
name	String	Name of the boat	Yes
type	String	Type of boat	Yes
length	Integer	Size of boat	Yes

# Request Body Example:

```
"id": 5710353417633792,
    "length": 28,
    "name": "Sea Witch",
    "self": "http://34.168.199.118:8000/boats/5710353417633792",
    "type": "Catamaran"
}
```

## Response

Response Body Format

JSON or HTML

## Response Status

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	<ul> <li>Request object is missing at least one of the required attributes</li> </ul>
		<ul> <li>Name cannot be longer than 16 characters. It can also only contain letters of the alphabet</li> </ul>
		<ul> <li>Type cannot be longer than 16 characters. It can also only contain letters of the alphabet</li> </ul>
		<ul> <li>Length can't be longer than 7 digits. It can also only contain numbers</li> </ul>

## Response Examples

• Datastore will generate an ID and store it with the entity created. This value needs to be sent with the response body in below example.

• 'self' attribute with contain live like to REST resource corresponding to the boat (the url of the boat). The 'self' attribute is not stored in Datastore.

#### Success

```
Status: 201 Created
{
    "id": 4858442896375808,
    "length": 28,
    "name": "Sea Food Time",
    "self": "http://34.168.199.118:8000/boats/5646488461901824",
    "type": "Catamaran"
}
```

#### Failure

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

# List all Boat

Allows you to get all boats.

GET /boats

# Request

**Request Parameters** 

None

Request Body

None

Response

Response Body Format

HTML/JSON

Response Body Example

```
"boats": [
            "name": "Sea Witch",
            "length": 28,
            "type": "Catamaran",
            "id": 5632499082330112,
            "self": "http://34.168.199.118:8000/boats/5632499082330112"
        } ,
            "type": "Catamaran",
            "name": "Sandwhich",
            "length": 28,
            "id": 5636645067948032,
            "self": "http://34.168.199.118:8000/boats/5636645067948032"
        },
            "length": 28,
            "name": "Sea Witch",
            "type": "Catamaran",
            "id": 5642368648740864,
            "self": "http://34.168.199.118:8000/boats/5642368648740864"
        }
    "next": "http://34.168.199.118:8000/boats?limit=3&offset=3"
}
```

# Response Statuses

Outcome	Status Code	Notes
Success	200 OK	

#### **Response Statuses**

#### Success

```
Status: 200 OK
<!DOCTYPE html>
<html lang="en">
<head>
   <link rel="stylesheet" href="static/style.css">
   <meta description="description" content="Show information of the person">
   <meta name="author" content="Susan Liu">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Assignment 8 - Containerize It</title>
</head>
<body style="background-color: rgb(157, 233, 248);">
   <h1>Boat List</h1>
   <!--
<a href='https://accounts.google.com/o/oauth2/v2/auth?response type=code&client id=8</pre>
h4u7n8tf6u5ge6fujn1d9hu4sv8astui.apps.googleusercontent.com&redirect uri=https://joi
ning-
in.uw.r.appspot.com/oauth&scope=email profile&state=randomran" + mestring + "'>Pleas
e follow this link to authorize.</a>-->
   <!--<p>{
   "boats": [
          "type": "Catamaran",
          "length": 28,
          " name": " Sea Witch",
          "id": 5632499082330112,
          "self": "http://34.168.199.118:8000/boats/5632499082330112&#
34;
       },
          "length": 28,
          " name": " Sandwhich",
          "type": "Catamaran",
          "id": 5636645067948032,
          "self": "http://34.168.199.118:8000/boats/5636645067948032&#
34;
       },
          "type": "Catamaran",
          "length": 28,
          "name": "Sea Witch",
          "id": 5642368648740864,
          "self": "http://34.168.199.118:8000/boats/5642368648740864&#
34;
   "next": "http://34.168.199.118:8000/boats?limit=3&offset=3"
}
      -->
   {
   "boats": [
          "type": "Catamaran",
          "length": 28,
```

```
"name": "Sea Witch",
        "id": 5632499082330112,
        "self": "http://34.168.199.118:8000/boats/5632499082330112&#
34;
     },
        "length": 28,
        " name": " Sandwhich",
        "type": "Catamaran",
        "id": 5636645067948032,
         "self": "http://34.168.199.118:8000/boats/5636645067948032&#
34;
     },
         "type": "Catamaran",
        "length": 28,
        " name": " Sea Witch",
        "id": 5642368648740864,
        "self": "http://34.168.199.118:8000/boats/5642368648740864&#
34;
     }
  "next": "http://34.168.199.118:8000/boats?limit=3&offset=3"
}
</body>
</html>
```

## Get a Boat

Allows you to get an existing boat.

GET /boats/:boat id

## Request

#### Request Parameters

Name	Туре	Description	Required?
boat_id	String	ID of the boat	Yes

#### Request Body

None

# Response

Response Body Format

HTML or JSON

#### Response Body Example

```
Boat Info

{
    "type": "Catamaran",
    "length": 28,
    "name": "Sea Witch",
    "id": "5642368648740864",
    "self": "http://34.168.199.118:8000/boats/5642368648740864"
}
```

#### **Response Statuses**

Outcome	Status Code	Notes
Success	200 OK	
Failure	404	No Boat with ID

#### **Response Statuses**

#### Success

```
Status: 200 OK
<!DOCTYPE html>
<html lang="en">
<head>
   <link rel="stylesheet" href="static/style.css">
   <meta description="description" content="Show information of the person">
   <meta name="author" content="Susan Liu">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Assignment 8 - Containerize It</title>
<body style="background-color: rgb(157, 233, 248);">
   <h1>Boat Info</h1>
   < ! --
<a href='https://accounts.google.com/o/oauth2/v2/auth?response_type=code&client_id=8</pre>
h4u7n8tf6u5ge6fujn1d9hu4sv8astui.apps.googleusercontent.com&redirect uri=https://joi
in.uw.r.appspot.com/oauth&scope=email profile&state=randomran" + mestring + "'>Pleas
e follow this link to authorize.</a>-->
   <!--<p>{
   "type": "Catamaran",
   "length": 28,
   " name": " Sea Witch",
   "id": "5642368648740864",
   "self": "http://34.168.199.118:8000/boats/5642368648740864"
}
       "id" : 
       "length" : 
       "name" : 
       "self" : 
       "type" : -->
   {
   "type": "Catamaran",
   "length": 28,
```

# Failure

```
Status: 404 Not Found
{
"Error": "No boat with this boat_id exists"
}
```