Assign 4: Load API Spec

URL: <http://skinnern-cs493-project4.appspot.com/>

[**CREATE A BOAT**](#_5rbo79g53kun) **2**

[**GET A BOAT**](#_qn3m3c3knuei) **4**

[**LIST OF ALL BOATS**](#_39qmg05b8cdn) **6**

[**EDIT A BOAT**](#_7vbodrm3sqsr) **8**

[**DELETE A BOAT**](#_rfptmsddv2dr) **10**

[**CREATE A LOAD**](#_5pq0isolsy3g) **12**

[**GET A LOAD**](#_u5c21zdfwxud) **14**

[**LIST OF ALL LOADS**](#_gbshf7i1x1b) **16**

[**DELETE A LOAD**](#_mgopkvdwsg4c) **18**

[**BOAT ADDS A LOAD**](#_s4caw9j5hyg8) **20**

[**BOAT REMOVES A LOAD**](#_qxrauc746302) **22**

[**VIEW BOAT LOAD**](#_s3ic9jaxg18k) **24**

# 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** | **Type** | **Description** | **Required?** |
| name | string | Name of the boat | yes |
| type | string | Type of boat | yes |
| length | integer | Length of boat | yes |

Request body example

|  |
| --- |
| {  "name": "Sea Witch",  "type": "Catamaran",  "length": 28  } |

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **201** | **Boat was made** |
| **failure** | **400 bad request** | **Boat is missing attributes** |

**Response Examples**

• Datastore will automatically generate an ID and store it with the entity being created.

|  |
| --- |
| **{**  **"boats": [{**  **"loads": [],**  **"id": 5631986051842048,**  **"length": 10,**  **"name": "Test Ship 1",**  **"self": "http://skinnern-cs493-project4.appspot.com/boats/5631986051842048",**  **"type": "Ship 1"**  **}]}** |

# GET A BOAT

Allows you to get an existing boat

|  |
| --- |
| Get /boats/[boatid] |

Request

Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Boat id | string | Id of the boat | yes |

Request Body

none

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **200 OK** | **Boat was found** |
| **failure** | **404 not found** | **Boat with boat\_id was not found** |

**Response Examples**

• the datastore should display attributes of the selected boat, unless the selected boat does not exist

|  |
| --- |
| {  "type": "Ship 1",  "loads": [],  "id": 5631986051842048,  "length": 10,  "name": "Test Ship 1",  "self": "<http://skinnern-cs493-project4.appspot.com/boats/5631986051842048>"  } |

# LIST OF ALL BOATS

Allows you to get all existing boats

|  |
| --- |
| Get /boats |

Request

Request Parameters

None

Request Body

none

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **200 OK** | **Listing all boats** |

**Response Examples**

• this should display a list of all boats contained in the datastore

|  |
| --- |
| {"boats": [{  "type": "Ship 1",  "loads": [],  "id": 5631986051842048,  "length": 10,  "name": "Test Ship 1",  "self": "<http://skinnern-cs493-project4.appspot.com/boats/5631986051842048>"  }, {  "self": "http://skinnern-cs493-project4.appspot.com/boats/5634472569470976",  "type": "Ship 1",  "loads": [],  "id": 5634472569470976,  "length": 10,  "name": "Test Ship 1"  }, {  "id": 5644406560391168,  "length": 10,  "name": "Test Ship 1",  "self": "http://skinnern-cs493-project4.appspot.com/boats/5644406560391168",  "type": "Ship 1",  "loads": []  }]} |

# EDIT A BOAT

**Allows you to edit a boat**

|  |
| --- |
| PATCH /boats/[boatid] |

Request

Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Boat id | string | Id of the boat | yes |

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| name | string | Name of the boat | yes |
| type | string | Type of boat | yes |
| length | integer | Length of boat | yes |

Request body example

|  |
| --- |
| {  "name": "Sea Witch",  "type": "Catamaran",  "length": 28  } |

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **200** | **Boat was edited** |
| **failure** | **400 bad request** | **Your edit was missing attributes** |
| **failure** | **404** | **Boat with this id does not exist** |

**Response Examples**

• the datastore ship should be edited with the proper attributes, and will return the current attributes of the ship

|  |
| --- |
| {  "type": "Ship 1",  "loads": [],  "id": 5631986051842048,  "length": 10,  "name": "Test Ship 1",  "self": "<http://skinnern-cs493-project4.appspot.com/boats/5631986051842048>"  } |

# DELETE A BOAT

**Allows you to delete a boat**

**If a boat is deleted, any load relationships that had existed will become nullified**

|  |
| --- |
| DELETE /boats/[boatid] |

Request

Request Parameters

None

Request Body

none

Request Body Format

JSON

Response

**Response Body Format**

**Success: no body**

**Failure: JSON**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **204 no content** | **Boat was deleted** |
| **failure** | **404 not found** | **No boat with this boat\_id exists** |

**Response Examples**

• if delete is successful, no message will be sent, if failure, will send the following:

|  |
| --- |
| {  Error: "No boat with this boat\_id exists"  } |

# CREATE A LOAD

Allows you to create a new boat

|  |
| --- |
| post /loads |

Request

Request Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| content | string | contents | yes |
| delivery\_date | string | Date to deliver | yes |
| weight | integer | Weight of deliverable | yes |

Request body example

|  |
| --- |
| {  "name": "Sea Witch",  "type": "Catamaran",  "length": 28  } |

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **201** | **Load was made** |
| **failure** | **400 bad request** | **Load is missing attributes** |

**Response Examples**

• Datastore will automatically generate an ID and store it with the entity being created.

|  |
| --- |
| {  "content": "legos",  "weight": 5, "carrier": null,  "delivery\_date": "01-11-1994",  "id": 5078956801785856,  "self": "<http://skinnern-cs493-project4.appspot.com/loads/5078956801785856>"  } |

# GET A LOAD

Allows you to get an existing load

|  |
| --- |
| Get /loads/[loadid] |

Request

Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Load id | string | Id of the load | yes |

Request Body

none

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **200 OK** | **Load was found** |
| **failure** | **404 not found** | **Load with load\_id was not found** |

**Response Examples**

• the datastore should return an individual item as long as a proper object was specified

|  |
| --- |
| {  "content": "legos",  "weight": 5,  "carrier": null,  "delivery\_date": "01-11-1994",  "id": 5078956801785856,  "self": "<http://skinnern-cs493-project4.appspot.com/loads/5078956801785856>"  } |

# LIST OF ALL LOADS

Allows you to get all existing loads

|  |
| --- |
| Get /loads |

Request

Request Parameters

None

Request Body

none

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **200 OK** | **Listing all loads** |

**Response Examples**

• this will cause the datastore to grab all loads that it can find, these results will be pagnitated 3 at a time

|  |
| --- |
| {  "loads": [{  "content": "legos",  "weight": 5,  "carrier": null,  "delivery\_date": "01-11-1994",  "id": 5078956801785856,  "self": "<http://skinnern-cs493-project4.appspot.com/loads/5078956801785856>"  }]  } |

# DELETE A LOAD

**Allows you to delete a load**

**If a load is deleted, any boat relationships that had existed will become nullified**

|  |
| --- |
| DELETE /loads/[loadid] |

Request

Request Parameters

None

Request Body

none

Request Body Format

JSON

Response

**Response Body Format**

**Success: no body**

**Failure: JSON**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **204 no content** | **Load was deleted** |
| **failure** | **404 not found** | **No load with this load\_id exists** |

**Response Examples**

• if delete is successful, no message will be sent, if failure, will send the following:

|  |
| --- |
| {  Error: "No boat with this boat\_id exists"  } |

# BOAT ADDS A LOAD

Allows you to create a new boat

|  |
| --- |
| Put /loads/[loadid]boats/[boatid] |

Request

Request Parameters

None

Request Body

Required

Request Body Format

JSON

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **201** | **Load was added to boat** |
| **failure** | **404 bad request** | **No load with this id exists** |

**Response Examples**

* I did not implement a response if it was successful, but I did give a failure state:

|  |
| --- |
| {  “Error": "The specified boat and or load do not exist”  }  {  "Error": "Load currently has a carrier"  } |

# BOAT REMOVES A LOAD

Allows you to remove a load from a boat

|  |
| --- |
| Delete /boats/[boatid]/load/[loadid] |

Request

Request Parameters

None

Request Body

none

Request Body Format

JSON

Response

**Response Body Format**

**Success: no body**

**Failure: JSON**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **204 no content** | **Load was deleted** |
| **failure** | **404 not found** | **No load with this load\_id exists** |

**Response Examples**

• if delete is successful, no message will be sent, if an error occurs, it should look like one of the following:

|  |
| --- |
| {  "Error": "The specified boat and or load do not exist"  }  {  "Error": "No boat is assigned the load."  }  {  "Error": "No boat with this boat\_id is assigned the load with this load\_id"  } |

# VIEW BOAT LOAD

Allows you to get all existing loads associated with a boat

|  |
| --- |
| Get /boats/[boatid]/loads |

Request

Request Parameters

None

Request Body

none

Response

**Response Body Format**

**JSON**

**Response Statuses**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status code** | **notes** |
| **success** | **200 OK** | **Listing all loads** |

**Response Examples**

• this will cause the datastore to grab all loads that it can find

|  |
| --- |
| {  "content": "legos",  "weight": 5,  "carrier": null,  "delivery\_date": "01-11-1994",  "id": 5078956801785856,  "self": "<http://skinnern-cs493-project4.appspot.com/loads/5078956801785856>"  } |