Portfolio Assignment: API Spec

CS 493: Cloud Application Development

Fall 2020

Oregon State University

Last Update Dec 2, 2020. 2:30 pm Pacific

Application deployed at: <https://hartwelg-final-gae.wl.r.appspot.com>

Login at: https://hartwelg-final-gae.wl.r.appspot.com

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# Change log

|  |  |  |
| --- | --- | --- |
| **Page** | **Change** | **Date** |
|  | Initial version. | M, Oct 12 |
|  | Final Project version. | W, Dec 2 |

# 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 | The name of the boat. | Yes |
| type | String | The type of the boat. E.g., Sailboat, Catamaran, etc. | Yes |
| length | Integer | Length of the boat in feet. | Yes |
| Owner | String | User\_id of the owner of the boat | Yes |
| Loads | List | list of the loads on the boat | Yes |

Request Body Example

{

"name": "Sea Witch",

"type": "Catamaran",

"length": 28,

“owner”: null,

“loads”: []

}

## Response

Response Body Format

JSON

Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created |  |
| Failure | 400 Bad Request | If the request is missing any of the 5 required attributes, the boat will not be created, and 400 status code will be returned.  If the value of the boat’s “length” attribute exceeds 500, the boat will not be created and 400 status code will be returned.  If the boat’s name exceeds 15 characters or the name contains non-alphanumeric characters, the boat will not be created, and 400 status code will be returned. |
| Failure | 401 Unauthorized | If the user’s access token is non-existent or the token does not verify, the boat will not be created, and 401 status code will be returned. |
| failure | 406 Not Acceptable | If the request to the endpoint does not have ‘application/json’ in the “Accept” header, the boat will not be created, and 406 status code will be returned. |
| Failure | 415 Unsupported Media Type | If the request to the endpoint does not have “application/json” in the “Content-Type” header, the boat will not be created and 415 status code will be returned. |

Response Examples

* Datastore will automatically generate an ID and store it with the entity being created. This value needs to be sent in the response body as shown in the example.
* The self attribute will contain the live link to the REST resource corresponding to this boat. In other words, this is the URL to get this newly created boat. You must not store the self attribute in Datastore

*Success*

Status: 201 Created

{

"id": "abc123",

"name": "Sea Witch",

"type": "Catamaran",

"length": 28,

"self": "https://<your-app>/boats/abc123"

}

*Failure*

Status: 400 Bad Request

{

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

}

OR

{

"Error": "Boat name is too long or contains non-alphanumeric characters"

}

OR

{

"Error": "Boat length cannot exceed 500"

}

OR

{

"Error": "Extraneous field(s) in request"

}

*Failure*

Status: 401 Unauthorized

{

"Error": "The request does not have proper authorization”

}

*Failure*

Status: 403 Forbidden

{

"Error": "Boat name is not unique”

}

*Failure*

Status: 406 Not Acceptable

{

}

*Failure*

Status: 415 Unsupported Media Type

{

}

# Get a Boat

Allows you to get an existing boat

|  |  |  |  |
| --- | --- | --- | --- |
| GET /boats/:boat\_id | |  |  |
| 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 |  |
| Failure | 404 Not Found | No boat with this boat\_id exists |
| Failure | 401 Unauthorized | User is not authorized to view this boat |

Response Examples

*Success*

Status: 200 OK

{

"id": "abc123",

"name": "Sea Witch",

"type": "Catamaran",

"length": 28,

“owner”: null,

"self": "https://<your-app>/boats/abc123"

}

*Failure*

Status: 404 Not Found

{

"Error": "No boat with this boat\_id exists"

}

*Failure*

Status: 401 Unauthorized

{

"Error": "The request does not have proper authorization"

}

# List all Boats

List all the boats.

|  |  |  |
| --- | --- | --- |
| GET /boats | |  |
| Request  Request Parameters  None  Request Body  None  Response  Response Body Format  JSON  Response Statuses | |  |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |

Response Examples

*Success*

Status: 200 OK

[

{

"id": "abc123",

"name": "Sea Witch",

"type": "Catamaran",

"length": 28,

“owner”: null,

"self": "https://<your-app>/boats/abc123"

},

{

"id": "def456",

"name": "Adventure",

"type": "Sailboat",

"length": 50,

“owner”: null,

"self": "https://<your-app>/boats/def456"

},

{

"id": "xyz123",

"name": "Hocus Pocus",

"type": "Sailboat",

"length": 100,

“owner”: null,

"self": "https://<your-app>/boats/xyz123"

}

]

# Edit a Boat

Allows you to edit a boat. Protected endpoint.

|  |  |  |  |
| --- | --- | --- | --- |
| PUT /boats/:boat\_id | |  |  |
| 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 | The name of the boat. | Yes |
| type | String | The type of the boat. E.g., Sailboat, Catamaran, etc. | Yes |
| length | Integer | Length of the boat in feet. | Yes |
| Owner | String | User\_id of the owner of the boat | Yes |
| Loads | List | List of loads on the boat | No |

Request Body Example

{

"name": "Sea Witch",

"type": "Catamaran",

"length": 99,

“owner”: null,

“loads”: []

}

## Response

Response Body Format

JSON

Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 204 No Content |  |
| Failure | 401 Unauthorized | If the request is not authorized, the boat will not be updated and 401 status code will be returned. |
| Failure | 404 Not Found | No boat with this boat\_id exists |

Response Examples

• The self attribute will contain the live link to the REST resource corresponding to this boat. You must not store this attribute in Datastore.

*Success*

Status: 200 OK

{

}

*Failure*

Status: 401 Unauthorized

{

"Error": "The request does not have proper authorization"

}

Status: 404 Not Found

{

"Error": "No boat with this boat\_id exists"

}

# Delete a Boat

Allows you to delete a boat. If the boat has any loads or is owned by an owner, the loads will be unloaded and the boat will be removed from the owner. Protected endpoint.

DELETE /boats/:boat\_id

## Request

Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| boat\_id | String | ID of the boat | Yes |

Request Body

None

## Response No body

Response Body Format Success: No body

Failure: JSON

Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 204 No Content |  |
| Failure | 404 Not Found | No boat with this boat\_id exists |
| Failure | 401 Unauthorized | Request is not authorized |

Response Examples

*Success*

Status: 204 No Content

*Failure*

Status: 404 Not Found

{

"Error": "No boat with this boat\_id exists"

}

*Failure*

Status: 401 Unauthorized

{

"Error": "The request does not have proper authorization"

}

# Create a Load

Allows you to create a new load. Unprotected endpoint.

|  |
| --- |
| POST /loads |

## Request

### Request Parameters

None

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Weight | Integer | The weight of the load | Yes |
| Content | String | The content of the load | Yes |
| Delivery\_Date | String | The delivery date of the load | Yes |
| Carrier | Integer | The id of the boat carrying this load | No |

### Request Body Example

|  |
| --- |
| {  “Weight”: 20,  “Content”: “Legos”,  “Delivery\_date”: “10/10/2010”,  “carrier”: null,  “id”: “123456789”,  “self”: “http://<app\_url>/loads/<load\_id>”  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created |  |
| Failure | 400 Bad Request | If the request is missing the number attribute, the slip must not be created, and 400 status code must be returned.  You don’t need to validate the values of this attribute and can assume that if the number attribute is specified, then its value is valid.  You can also assume that the request will not contain any extraneous attribute (i.e., the request JSON will never contain any attribute other than number). |

### Response Examples

* Datastore will automatically generate an ID and store it with the entity being created. This value needs to be sent in the response body as shown in the example.
* The value of the attribute carrier is the ID of the boat currently carrying this load. If there is no boat carrying this load, the value of carrier should be null
* The value of the attribute self is a live link to the REST resource corresponding to this slip. In other words, this is the URL to get this newly created slip. You must not store this attribute in Datastore

#### Success

|  |
| --- |
| Status: 201 Created  {  "id": "123abc",  "Weight": 20,  “Content”: “Legos”,  “Delivery\_date”: “10/10/2010”,  "Carrier": null,  "self": "https://<your-app>/slips/123abc"  } |

#### Failure

|  |
| --- |
| Status: 400 Bad Request  {  "Error": "The request object is missing the required number"  } |

# Get a Load

Allows you to get an existing load. Unprotected endpoint.

|  |
| --- |
| GET /loads/:load\_id |

## 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 |  |
| Failure | 404 Not Found | No load with this load\_id exists |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "id": "123abc",  "weight”: 20,  “content”: “Legos”,  “delivery\_date”: “10/10/2010”,  "carrier": "abc123",  "self": "https://<your-app>/slips/123abc"  } |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No load with this load\_id exists"  } |

# List all Loads

List all the loads. Unprotected endpoint.

|  |
| --- |
| GET /loads |

## Request

### Request Parameters

None

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  [  {  "id": "123abc",  "weight”: 20,  “content”: “Legos”,  “delivery\_date”: “10/10/2010”,  "carrier": "abc123",  "self": "https://<your-app>/slips/123abc"  },  {  "id": "456def",  "weight”: 200,  “content”: “Hover bike”,  “Delivery\_date”: “10/25/2015”,  "carrier": null,  "self": "https://<your-app>/slips/456def"  }  ] |

# Delete a Load

Allows you to delete a load. If the load being deleted is on a boat, the load is also “unloaded” from the boat. Unprotected endpoint.

|  |
| --- |
| DELETE /loads/:load\_id |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| load\_id | String | ID of the load | Yes |

### Request Body

None

## Response

No body

### Response Body Format

Success: No body

Failure: JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 204 No Content |  |
| Failure | 404 Not Found | No load with this load\_id exists |

### Response Examples

#### Success

|  |
| --- |
| Status: 204 No Content |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No load with this load\_id exists"  } |

# Create an Owner

Allows you to create a new owner. Protected endpoint.

|  |
| --- |
| POST /owners |

## Request

### Request Parameters

None

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| password | String | The owner’s password | Yes |
| Age | Int | The owner’s age | Yes |
| boats | List | The boats owned by this owner | Yes |

### Request Body Example

|  |
| --- |
| {  "pass": "password",  "age": 40,  "boats": []  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created |  |
| Failure | 400 Bad Request | If the request is missing any of the required attributes, the owner will not be put into the system and 400 status code will be returned. |
| Failure | 401 Unauthorized | If the user does not have proper authorization, the owner entity will not be created and 401 status code will be returned |

### Response Examples

#### Success

|  |
| --- |
| Status: 201 Created  {  "user\_id": "105294518571022308998",  "password": "password",  "age": 40,  "boats": [],  "id": "6236692331626496",  "self": "http://localhost:8080/owners//6236692331626496"  } |

#### Failure

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

#### Failure

|  |
| --- |
| Status: 401 Unauthorized  {  "Error": "The request does not have proper authorization"  } |

# Get an Owner

Allows you to get an existing owner. Unprotected endpoint.

|  |
| --- |
| GET /owners/:owner\_id |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| owner\_id | String | ID of the owner | Yes |

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 404 Not Found | No load with this load\_id exists |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "self": "http://localhost:8080/owners/5163227868561408",  "boats": [  {  "owner": "105294518571022308998",  "id": "4817117325033472",  "self": "http://localhost:8080/boats/4817117325033472"  }  ],  "id": 5163227868561408,  "user\_id": "105294518571022308998"  } |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No owner with this owner\_id exists"  } |

# List all Owners

List all the owners. Unprotected endpoint.

|  |
| --- |
| GET /owners |

## Request

### Request Parameters

None

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "owners": [  {  "self": "http://localhost:8080/owners/5163227868561408",  "boats": [  {  "owner": "105294518571022308998",  "id": "4817117325033472",  "self": "http://localhost:8080/boats/4817117325033472"  }  ],  "id": 5163227868561408,  "user\_id": "105294518571022308998"  }  {  "self": "http://localhost:8080/owners/5163227868561408",  "boats": [  {  "owner": "105294518571022308998",  "id": "4817117325035631",  "self": "http://localhost:8080/boats/4817117325035631"  }  ],  "id": 5163227868561408,  "user\_id": "105294518571022308998"  }  ]  } |

# Delete an owner

Allows you to delete an owner. Protected endpoint.

|  |
| --- |
| DELETE /owners/:owner\_id |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| owner\_id | String | ID of the owner | Yes |

### Request Body

None

## Response

No body

### Response Body Format

Success: No body

Failure: JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 204 No Content |  |
| Failure | 404 Not Found | No owner with this owner\_id exists |

### Response Examples

#### Success

|  |
| --- |
| Status: 204 No Content |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No owner with this owner\_id exists"  } |

# Load put on Boat

A load is put on a boat. Unprotected endpoint.

|  |
| --- |
| PUT /boats/:boat\_id/loads/:load\_id |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Boat\_id | String | ID of the boat | Yes |
| load\_id | String | ID of the load | Yes |

### Request Body

None

Note: Set Content-Length to 0 in your request when calling out to this endpoint.

## Response

No body

### Response Body Format

Success: No body

Failure: JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created | Succeeds only if a boat exists with this boat\_id, a load exists with this load\_id and the load is not already on the boat. |
| Failure | 403 Forbidden | There is already a load on this boat. |
| Failure | 403 Forbidden | The load is already on another boat |
| Failure | 404 Not Found | No boat with this boat\_id exists, and/or no load with this load\_id exits. |

### Response Examples

#### Success

|  |
| --- |
| Status: 201 Created |

#### Failure

|  |
| --- |
| Status: 403 Forbidden  {  "Error": "The load is already on the boat"  } |

|  |
| --- |
| Status: 404 Not Found  {  "Error": "The specified boat and/or load does not exist"  } |

## Comment

* A load cannot be assigned to multiple boats.

# Load removed from Boat

Load has been removed from the boat. Unprotected endpoint.

|  |
| --- |
| DELETE /boats/:boat\_id/loads/:load\_id |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Boat\_id | String | ID of the boat | Yes |
| load\_id | String | ID of the load | Yes |

### Request Body

None

## Response

No body

### Response Body Format

Success: No body

Failure: JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 204 No Content | Succeeds only if a boat exists with this boat\_id, a load exists with this load\_id and this load is on this boat. |
| Failure | 404 Not Found | No load with this load\_id is on the boat with this boat\_id. |

### Response Examples

#### Success

|  |
| --- |
| Status: 204 No Content |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No load with this load\_id is on the boat with this boat\_id"  } |

# Boat assigned to Owner

A boat is assigned to an owner. Unprotected endpoint.

|  |
| --- |
| PUT /owners/:owner\_id/boats/:boat\_id |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| owner\_id | String | ID of the owner | Yes |
| boat\_id | String | ID of the boat | Yes |

### Request Body

None

Note: Set Content-Length to 0 in your request when calling out to this endpoint.

## Response

No body

### Response Body Format

Success: No body

Failure: JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created | Succeeds only if an owner exists with this owner\_id, a boat exists with this boat\_id and the boat is not already owned by someone. |
| Failure | 403 Forbidden | There is already a boat owned by this owner. |
| Failure | 403 Forbidden | The boat is owned by another owner. |
| Failure | 404 Not Found | No boat with this boat\_id exists, and/or no owner with this owner\_id exits. |

### Response Examples

#### Success

|  |
| --- |
| Status: 201 Created |

#### Failure

|  |
| --- |
| Status: 403 Forbidden  {  "Error": "The load is already on the boat"  } |

|  |
| --- |
| Status: 404 Not Found  {  "Error": "The specified boat and/or load does not exist"  } |

## Comment

* A boat cannot be assigned to multiple owners.

# Boat removed from Owner

Boat has been removed from the Owner. Unprotected endpoint.

|  |
| --- |
| DELETE /owners/:owner\_id/boats/:boat\_id |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| owner\_id | String | ID of the owner | Yes |
| boat\_id | String | ID of the boat | Yes |

### Request Body

None

## Response

No body

### Response Body Format

Success: No body

Failure: JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 204 No Content | Succeeds only if an owner exists with this owner\_id, a boat exists with this boat\_id and this boat is owned by this owner. |
| Failure | 404 Not Found | No boat with this boat\_id is owned by the owner with this owner\_id. |

### Response Examples

#### Success

|  |
| --- |
| Status: 204 No Content |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No boat with this boat\_id is owned by the owner with this owner\_id"  } |

# View Loads for a Boat

Load has been removed from the boat. Unprotected endpoint.

|  |
| --- |
| GET /boats/:boat\_id/loads/ |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Boat\_id | String | ID of the boat | Yes |

### Request Body

None

## Response

No body

### Response Body Format

Success: No body

Failure: JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK | Succeeds only if a boat exists with this boat\_id, and a load exists with this load\_id. |
| Failure | 404 Not Found | No boat with this boat\_id exists. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  [  {  "id": "123abc",  "weight”: 20,  “content”: “Legos”,  “delivery\_date”: “10/10/2010”,  "carrier": "abc123",  "self": "https://<your-app>/slips/123abc"  },  {  "id": "456def",  "weight”: 200,  “content”: “Hover bike”,  “Delivery\_date”: “10/25/2015”,  "carrier": null,  "self": "https://<your-app>/slips/456def"  }  ] |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No boat with this boat\_id exists"  } |

# View Boats for an Owner

View the Boats owned by an Owner. Unprotected endpoint.

|  |
| --- |
| GET /owners/:owner\_id/boats/ |

## Request

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Boat\_id | String | ID of the boat | Yes |

### Request Body

None

## Response

No body

### Response Body Format

Success: No body

Failure: JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK | Succeeds only if an owner exists with this owner\_id. |
| Failure | 404 Not Found | No owner with this owner\_id exists. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  [  {  "loads": [],  "length": 280,  "name": "testboat",  "self": "http://localhost:8080/boats/4817117325033472",  "type": "yacht",  "id": "4817117325033472",  "owner": {  "id": "5163227868561408",  "user\_id": "105294518571022308998",  "self": "http://localhost:8080/owners/5163227868561408"  }  ] |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No owner with this owner\_id exists"  } |