Boat Tracker

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[Change log 1](#_Toc28341852)

[Descriptions 2](#_Toc28341853)

[Create a Boat 3](#_Toc28341854)

[Get a Boat 5](#_Toc28341855)

[List all Boats 6](#_Toc28341856)

[Edit a Boat - Patch 7](#_Toc28341857)

[Edit a Boat – Put 10](#_Toc28341858)

[Delete a Boat 12](#_Toc28341859)

[Create a Load 13](#_Toc28341860)

[Get a Load 14](#_Toc28341861)

[List all Loads 15](#_Toc28341862)

[Edit a Load - Patch 17](#_Toc28341863)

[Edit a Load – Put 19](#_Toc28341864)

[Delete a Load 21](#_Toc28341865)

[Add Load to a Boat 22](#_Toc28341866)

[Remove a Load from a Boat 23](#_Toc28341867)

[View all Loads for a Boat 24](#_Toc28341868)

[View all Boats belonging to a User 26](#_Toc28341869)

# Change log

|  |  |  |
| --- | --- | --- |
| **Page** | **Change** | **Date** |
|  | Initial version. | M, Dec 9. |

# Descriptions

**Entities**

There are two non-user entities. The boat entity that has a name, type and length property and a load entity that has weight, content, and delivery date properties. Each boat can hold many loads, but one load can only be assigned to one boat at a time. The loads for a boat are tracked under a property called “loads” that contains a list of all of the load ids assigned to the boat. A load also tracks what boat it is assigned to using a ‘carrier’ property that contains the boat id it is assigned to. The boat also tracks which user created it and has rights to it under the ‘owner’ property, which contains a unique identifier for the user that created the boat and is the only user that can edit or delete the boat or add and remove loads from that boat.

**User Entity**

The user entity is created using OAUTH and a google sign on. The unique identifier stored in the boats ‘owner’ property and is taken from the ‘sub’ property belonging to their JWT token. If a request is being sent that needs authorization, the user must set an Authorization header to ‘Bearer <jwt\_token>’ where jwt\_token is the token displayed after creating an account at the root url. The application then uses this token, gets the ‘sub’ value, and checks against the stored ‘owner’ of the boat to make sure that the current token is the correct value to let the user edit or delete the boat. The relationship between the user and non-user entity is a user is the owner of as many boats as they want and is the only one who has the right to edit or delete said boats, but each boat only has one owner, the one who created it.

**Note: To test unauthorized access in the postman suite, set the jwt\_token\_2 environment variable to a valid token that belongs to another user.**

**Input Verification:**

Below are the verification checks done one request bodies:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Entity** | **Allowable Characters** | **Max Length** |
| name | Boat | Letters, numbers, and spaces | 50 |
| type | Boat | Letters and space. | 30 |
| length | Boat | Numbers only | 6 |
| Weight | Load | Numbers only | 20 |
| Content | Load | Letters, numbers, and spaces | 50 |
| Delivery\_date | Load | Numbers and ‘-‘, ‘/’, ‘\’ characters | 11 |

**AUTHORIZATION REQUIRED MEANS THAT THE JWT TOKEN IS REQUIRED TO USE THE ENDPOINTS FUNCTIONALITY. THIS MEANS THE TOKEN ENVIRONMENT VARIABLE MUST BE SET IN POSTMAN BEFORE SENDING ANY REQUEST. TESTS IN THE POSTMAN SUITE WILL ALSO FAIL IF “jwt\_token\_2” ENVIRONMENT VARIABLE IS NOT SET TO A VALID JWT TOKEN FROM A DIFFERENT EMAIL ADDRESS THAN THE “TOKEN” VARIABLE.**

# Create a Boat

Allows you to create a new boat.

|  |
| --- |
| POST /boats |

## Request

### Authorization

Required

### 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 |

### 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 | If the request is missing any of the 3 required attributes, the boat must not be created, and 400 status code must be returned. |
| Failure | 401 Missing Credentials | If there are invalid or missing jwt credentials, a 401 status is returned |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json or the request header or the request body did not have an application/json content-type |

### Response Examples

#### Success

|  |
| --- |
| Status: 201 Created  {  "id": "abc123",  "name": "Sea Witch",  "type": "Catamaran",  "length": 28,  “owner”: “12341234”,  “loads”: []  "self": "https://<your-app>/boats/abc123"  } |

#### Failure

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

#### Failure

|  |
| --- |
| Status: 401 Missing Credentials  {  "Error": "The JWT credentials are invalid or missing"  } |

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# Get a Boat

Allows you to get an existing boat

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

## Request

### Authorization

None

### 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 | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "id": "abc123",  "name": "Sea Witch",  "type": "Catamaran",  "length": 28,  “owner”: “12341234”,  “loads”: []  "self": "https://<your-app>/boats/abc123"  } |

#### Failure

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# List all Boats

List all the boats.

|  |
| --- |
| GET /boats |

## Request

### Authorization

None

### Request Parameters

None

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  [  {  "id": "abc123",  "name": "Sea Witch",  "type": "Catamaran",  "length": 28,  “owner": “12398349598273”,  "loads": [],  "self": "https://<your-app>/boats/abc123"  },  {  "id": "def456",  "name": "Adventure",  "type": "Sailboat",  “owner": “12398349598273”,  "loads": [],  "length": 50,  "self": "https://<your-app>/boats/def456"  },  {  "id": "xyz123",  "name": "Hocus Pocus",  "type": "Sailboat",  “owner": “12398349598273”,  "loads": [  “id”: “231”,  “self”:”https://<your-app>/loads/231  ],  "length": 100,  "self": "https://<your-app>/boats/xyz123"  }  ] |

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# Edit a Boat - Patch

Allows you to edit a boat. To edit one or more attributes, use put. To edit all attributes use PATCH

|  |
| --- |
| PATCH /boats/:boat\_id |

## Request

### Authorization

Required

### 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 |

### Request Body Example

|  |
| --- |
| {  "name": "Sea Witch",  "type": "Catamaran",  "length": 99,  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 400 Bad Request | If the request is missing any of the 3 required attributes, the boat must not be updated, and 400 status code must be returned.  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.  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 the ones that are listed). |
| Failure | 404 Not Found | No boat with this boat\_id exists |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json. |
| Failure | 401 Invalid Credentials | JWT credentials are missing or invalid |
| Failure | 403 Unauthorized | The boat belongs to someone else |

### 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  {  "id": "abc123",  "name": "Sea Witch",  "type": "Catamaran",  "length": 28,  “owner”: “12341234”,  “loads”: []  "self": "https://<your-app>/boats/abc123"  } |

#### Failure

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

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

#### Failure

|  |
| --- |
| Status: 401 Invalid Credentials  {  "Error": "invalid or missing credentials"  } |

#### Failure

|  |
| --- |
| Status: 403 Unauthorized  {  "Error": "The boat belongs to someone else"  } |

# Edit a Boat – Put

Used to edit one or more attributes, but not necessarily all attributes.

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

## Request

### Authorization

Required

### 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. | No |
| type | String | The type of the boat. E.g., Sailboat, Catamaran, etc. | No |
| length | Integer | Length of the boat in feet. | No |

### Request Body Example

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

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 303 OK |  |
| Failure | 400 Bad Request | If the request is missing any of the 3 required attributes, the boat must not be updated, and 400 status code must be returned. |
| Failure | 404 Not Found | No boat with this boat\_id exists |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json. |
| Failure | 401 Invalid Credentials | JWT credentials are missing or invalid |
| Failure | 403 Unauthorized | The boat belongs to someone else |

### 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: 303 OK  {  "id": "abc123",  "name": "Sea Witch",  "type": "Catamaran",  "length": 28,  “owner”: “12341234”,  “loads”: []  "self": "https://<your-app>/boats/abc123"  } |

#### Failure

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

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

#### Failure

|  |
| --- |
| Status: 401 Invalid Credentials  {  "Error": "invalid or missing credentials"  } |

#### Failure

|  |
| --- |
| Status: 403 Unauthorized  {  "Error": "The boat belongs to someone else"  } |

# Delete a Boat

Allows you to delete a boat. Note that if the boat is currently shipping a load, the loads carrier is set to null.

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

## Request

### Authorization

Required

### Request Parameters

None

### 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 Invalid Credentials | JWT credentials are missing or invalid |
| Failure | 403 Unauthorized | The boat belongs to someone else |

### Response Examples

#### Success

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

#### Failure

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

#### Failure

|  |
| --- |
| Status: 401 Invalid Credentials  {  "Error": "invalid or missing credentials"  } |

#### Failure

|  |
| --- |
| Status: 403 Unauthorized  {  "Error": "The boat belongs to someone else"  } |

# Create a Load

Allows you to create a new load.

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

## Request

### Authorization

None

### 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 expected date of delivery for the load | Yes |

### Request Body Example

|  |
| --- |
| {  "weight": 1,  "content": "Legos",  "delivery\_date": "1/1/2020"  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created |  |
| Failure | 400 Bad Request |  |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json or the request header or the request body did not have an application/json content-type |

### Response Examples

#### Success

|  |
| --- |
| Status: 201 Created  {      "id": 5093108584808448,      "weight": 1,      "carrier": null,      "content": "Legos",      "delivery\_date": "1/1/2020",      "self": "https://elsomr-final.appspot.com/loads/5093108584808448"  } |

#### Failure

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# Get a Load

Allows you to get an existing load.

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

## Request

### Authorization

None

### 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 |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json or the request header or the request body did not have an application/json content-type |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {      "id": 5093108584808448,      "weight": 1,      "carrier": null,      "content": "Legos",      "delivery\_date": "1/1/2020",      "self": "https://elsomr-final.appspot.com/loads/5093108584808448"  } |

#### Failure

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# List all Loads

List all the loads.

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

## Request

### Authorization

None

### Request Parameters

None

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json or the request header or the request body did not have an application/json content-type |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  [      {          "id": 5093108584808448,          "content": "Legos",          "carrier": null,          "weight": 1,          "delivery\_date": "1/1/2020",          "self": "https://elsomr-final.appspot.com/loads/5093108584808448",          "next": "https://elsomr-final.appspot.com/loads?limit=5&offset=5"      },      {          "id": 5099055302574080,          "weight": 25,          "carrier": null,          "delivery\_date": "4/4/2020",          "content": "Chips",          "self": "https://elsomr-final.appspot.com/loads/5099055302574080",          "next": "https://elsomr-final.appspot.com/loads?limit=5&offset=5"      },  ] |

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# Edit a Load - Patch

Allows you to edit a load. To edit one or more attributes, use put. To edit all attributes use PATCH

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

## Request

### Authorization

None

### Request Parameters

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

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Weight | String | The weight of the load | Yes |
| Content | String | The content of the load | Yes |
| delivery\_date | Integer | The expected date of delivery of the load | Yes |

### Request Body Example

|  |
| --- |
| {  "weight": 1,  "content": "Legos",  "delivery\_date": "1/1/2020"  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 400 Bad Request | If the request is missing any of the 3 required attributes, the load must not be updated, and 400 status code must be returned. |
| Failure | 404 Not Found | No load with this load\_id exists |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json or the request header or the request body did not have an application/json content-type |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {      "id": 5093108584808448,      "weight": 1,      "carrier": null,      "content": "Legos",      "delivery\_date": "1/1/2020",      "self": "https://elsomr-final.appspot.com/loads/5093108584808448"  } |

#### Failure

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

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# Edit a Load – Put

Used to edit one or more attributes, but not necessarily all attributes.

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

## Request

### Authorization

None

### Request Parameters

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

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| Weight | String | The weight of the load | No |
| Content | String | The content of the load | No |
| delivery\_date | Integer | The expected date of delivery of the load | No |

### Request Body Example

|  |
| --- |
| {  "weight": 1,  "delivery\_date": "1/1/2020"  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 303 OK |  |
| Failure | 400 Bad Request | If the request is missing any of the 3 required attributes, the load must not be updated, and 400 status code must be returned. |
| Failure | 404 Not Found | No load with this load\_id exists |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json or the request header or the request body did not have an application/json content-type |

### Response Examples

#### Success

|  |
| --- |
| Status: 303 OK  {      "id": 5093108584808448,      "weight": 1,      "carrier": null,      "content": "Legos",      "delivery\_date": "1/1/2020",      "self": "https://elsomr-final.appspot.com/loads/5093108584808448"  } |

#### Failure

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

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# Delete a Load

Allows you to delete a load. If the load being deleted has been assigned to a boat, the boat will also be updated

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

## Request

### Authorization

None

### Request Parameters

None

### 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"  } |

# Add Load to a Boat

Boat has started shipping a load.

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

## Request

### Authorization

Required

### Request Parameters

None

### 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 the load is not already assigned to another boat. |
| Failure | 403 Forbidden | The load is already assigned to another boat |
| Failure | 404 Not Found | No boat with this boat\_id exists, and/or no load with this load\_id exits. |
| Failure | 401 Invalid Credentials | JWT credentials are missing or invalid |
| Failure | 403 Unauthorized | The boat belongs to someone else |

### Response Examples

#### Success

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

#### Failure

|  |
| --- |
| Status: 403 Forbidden  {  "Error": "The load is already assigned to another boat."  } |

|  |
| --- |
| Status: 404 Not Found  {  "Error": "The specified boat and/or load don’t exist."  } |

#### Failure

|  |
| --- |
| Status: 401 Invalid Credentials  {  "Error": "invalid or missing credentials"  } |

#### Failure

|  |
| --- |
| Status: 403 Unauthorized  {  "Error": "The boat belongs to someone else"  } |

# Remove a Load from a Boat

The load has been delivered and unloaded.

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

## Request

### Authorization

Required

### Request Parameters

None

### 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 assigned to this boat. |
| Failure | 404 Not Found | No load with this load\_id is assigned to the boat at this boat\_id. |
| Failure | 401 Invalid Credentials | JWT credentials are missing or invalid |
| Failure | 403 Unauthorized | The boat belongs to someone else |

### Response Examples

#### Success

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

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": "No load with this load\_id is assigned to a boat with this boat\_id"  } |
|  |

#### Failure

|  |
| --- |
| Status: 401 Invalid Credentials  {  "Error": "invalid or missing credentials"  } |

#### Failure

|  |
| --- |
| Status: 403 Unauthorized  {  "Error": "The boat belongs to someone else"  } |

# View all Loads for a Boat

See all the loads the boat is currently shipping

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

## Request

### Authorization

None

### 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 | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json or the request header or the request body did not have an application/json content-type |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  [  {  "id": 5099055302574080,  "content": "Chips",  "carrier": {  "id": "4807736529256448",  "name": "Boat 4",  "self": "https://elsomr-final.appspot.com/boats/4807736529256448"  },  "weight": 25,  "delivery\_date": "4/4/2020",  "self": "https://elsomr-final.appspot.com/loads/5099055302574080"  }  ] |

#### Failure

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

# View all Boats belonging to a User

View all boats belonging to the current owner.

|  |
| --- |
| GET /users/:user\_id/boats |

## Request

### Authorization

Required

### Request Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Required?** |
| user\_id | String | ID of the user (the sub parameter from the JWT token) | Yes |

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 404 Not Found | No user with this user\_id exists |
| Failure | 406 Invalid Request | If the mime-type that is requested to be returned is not application/json or the request header or the request body did not have an application/json content-type |
| Failure | 401 Invalid Credentials | JWT credentials are missing or invalid |
| Failure | 403 Unauthorized | The boat belongs to someone else |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  [  {  "id": 4887143562346496,  "name": "Jolly Roger",  "loads": [],  "length": 200,  "type": "Pirate",  "owner": "114860320530109905851",  "self": "https://elsomr-final.appspot.com/boats/4887143562346496"  },  {  "id": 5086100271923200,  "length": 200,  "type": "Pirate",  "owner": "114860320530109905851",  "name": "Jolly Roger",  "loads": [],  "self": "https://elsomr-final.appspot.com/boats/5086100271923200"  }  ] |

#### Failure

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

#### Failure

|  |
| --- |
| Status: 406 Invalid Request  {  "Error": " Request Header not Acceptable"  } |

#### Failure

|  |
| --- |
| Status: 401 Invalid Credentials  {  "Error": "invalid or missing credentials"  } |

#### Failure

|  |
| --- |
| Status: 403 Unauthorized  {  "Error": "The boat belongs to someone else"  } |