

Portfolio Assignment: Final Project

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Sae Hyung Oh

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Change log

Page	Change	Date
	Initial version.	Tue, June 2

URLs

URL to root: <https://ohsa-project.wl.r.appspot.com>

URL to login: <https://ohsa-project.wl.r.appspot.com/welcome>

- User must login first before using the API.
- Two different JWTs each with a different “sub” property, acquired from the UserInfo page after the login, must be entered in the “ohsa_project.postman_environment.json”, in the attributes of “jwt1” and “jwt2”.

Data Model

Entities

Entity	Property	Type	Required?	Valid Values
User	sub	string	yes	The “sub” property decoded from the JWT provided by the Google People API once the user logs in
	given_name	string	yes	The “given_name” property decoded from the JWT
	family_name	string	yes	The “family_name” property decoded from the JWT
	boats	array of objects	no	an array of objects with “id” and “self” attributes of each boat
Boat	name	string	yes	string length between 2 and 32, alphanumeric and/or “_@./#&+-]*\$”
	type	string	yes	string length between 2 and 32, alphanumeric and/or “_@./#&+-]*\$”
	length	number	yes	positive number greater than 0 and less than or equal to 65535
	owner	object	yes	“sub” property of a User entity
	loads	array of objects	no	an array of objects with “id” and “self” attributes of each load
Load	weight	number	yes	positive number greater than 0 and less than or equal to 65535
	content	string	yes	string length between 2 and 32, alphanumeric and/or “_@./#&+-]*\$”
	delivery_date	string	yes	string length between 2 and 32, alphanumeric and/or “_@./#&+-]*\$”
	carrier	object	no	“name”, “id”, “self” property of a Boat entity

Relationships Between The Non-User Entities

- A boat can hold zero or many loads.
- A load can be on zero or one boat.

Details of the User Entity Modeling

- Unique Identifier: The “sub” property decoded from the JWT provided by the Google People API once the user logs in
- If a request needs to supply a user identifier, the JWT from the welcome -> UserInfo page needs to be specified by the person making the request.
- This application maps a supplied JWT to the identifier of a user by decoding the JWT using “jwt-decode” library for JavaScript.
- Relationship with Boat entity:
 - A user can have zero or many boats.
 - A boat always has one user as the owner.

API Specification

Create a Boat

Allows you to create a new boat. This will add the boat to the owner user.

POST /boats

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

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": "boat name 1_1",
  "type": "boat type 1_1",
  "length": 11
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	Status 400 is given for following reasons: <ul style="list-style-type: none">- The request is missing any of the required attributes- Invalid string in name or type- Invalid number in length Any extraneous attribute is ignored.
Failure	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	403 Forbidden	The requested name is already in use.
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.

Failure	415 Method Not Allowed	The request Content Type is unsupported; it only supports application/json.
---------	------------------------	---

Response Examples

Success

Status: 201 Created

```
{
  "name": "boat name 1_1",
  "loads": [],
  "length": 11,
  "type": "boat type 1_1",
  "owner": "109781574015761557704",
  "id": "5629654941564928",
  "self": "http://ohsa-project.wl.r.appspot.com/boats/5629654941564928"
}
```

Failure

Status: 400 Bad Request

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

Status: 401 Unauthorized

```
{
  "Error": "The user token is missing"
}
```

Status: 401 Unauthorized

```
{
  "Error": "The user token is invalid"
}
```

Status: 403 Forbidden

```
{
  "Error": "The name is already in use"
}
```

Status: 406 Not Acceptable

```
{
  "Error": "The Accept type is not supported by this endpoint"
}
```

Status: 415 Method Not Allowed

```
{  
  "Error": "The request Content Type is unsupported media type"  
}
```

Comments

- Datastore will automatically generate an ID and store it with the entity being created. This value is sent in the response body as shown in the example.
- The “self” attribute contains the live link to the REST resource corresponding to this boat. In other words, this is the URL to get this newly created boat.
- The “owner” attribute contains the “sub” identifier of the owner user.
- The “loads” attribute will hold an empty array upon creation of the boat.

Get a Boat

Allows you to get an existing boat

GET /boats/:boat_id

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

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	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	403 Forbidden	The boat is owned by someone else.
Failure	404 Not Found	No boat with this boat_id exists
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.

Response Examples

Success

<p>Status: 200 OK</p> <pre>{ "owner": "109781574015761557704", "name": "boat name 1_1", "loads": [], "length": 11, "type": "boat type 1_1", "id": "5629654941564928", "self": "http://ohsa-project.wl.r.appspot.com/boats/5629654941564928" }</pre>

Failure

<p>Status: 401 Unauthorized</p>

```
{  
  "Error": "The user token is missing"  
}
```

Status: 401 Unauthorized

```
{  
  "Error": "The user token is invalid"  
}
```

Status: 403 Forbidden

```
{  
  "Error": "The boat is owned by someone else"  
}
```

Status: 404 Not Found

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

Status: 406 Not Acceptable

```
{  
  "Error": "The Accept type is not supported by this endpoint"  
}
```

List all Boats

List all the boats by a user.

GET /boats

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

Request Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	The response is paginated, showing 5 entities at a time, with a 'next' link on every page except the last.
Failure	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.

Response Examples

Success

Status: 200 OK

```
{
  "count": 3,
  "items": [
    {
      "name": "boat name 1_1",
      "loads": [],
      "length": 11,
      "type": "boat type 1_1",
      "owner": "109781574015761557704",
      "id": "5666707490209792",
      "self": "http://ohsa-project.wl.r.appspot.com/boats/5666707490209792"
    },
    {
      "length": 12,
      "type": "boat type 1_2",
```

```
    "owner": "109781574015761557704",
    "name": "boat name 1_2",
    "loads": [],
    "id": "5702893864747008",
    "self": "http://ohsa-project.wl.r.appspot.com/boats/5702893864747008"
  },
  {
    "length": 13,
    "type": "boat type 1_3",
    "owner": "109781574015761557704",
    "name": "boat name 1_3",
    "loads": [],
    "id": "5718746756808704",
    "self": "http://ohsa-project.wl.r.appspot.com/boats/5718746756808704"
  }
]
```

Failure

Status: 401 Unauthorized

```
{
  "Error": "The user token is missing"
}
```

Status: 401 Unauthorized

```
{
  "Error": "The user token is invalid"
}
```

Status: 406 Not Acceptable

```
{
  "Error": "The Accept type is not supported by this endpoint"
}
```

Edit a Boat (selected attributes)

Allows you to edit selected attributes (name, type, or length) of a boat.

PATCH /boats/:boat_id

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

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

```
{
  "type": "modified type"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	400 Bad Request	Status 400 is given for following reasons: <ul style="list-style-type: none">- Invalid string in name or type- Invalid number in length Any extraneous attribute is ignored.
Failure	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	403 Forbidden	The boat is owned by someone else.
Failure	403 Forbidden	The requested name is already in use.
Failure	404 Not Found	No boat with this boat_id exists
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.

Failure	415 Method Not Allowed	The request Content Type is unsupported; it only supports application/json.
---------	------------------------	---

Response Examples

Success

Status: 200 OK

```
{
  "length": 11,
  "type": "modified type",
  "owner": "109781574015761557704",
  "name": "boat name 1_1",
  "loads": [],
  "id": "5666707490209792",
  "self": "http://ohsa-project.wl.r.appspot.com/boats/5666707490209792"
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request object has invalid character(s) in type attribute"
}
```

Status: 401 Unauthorized

```
{
  "Error": "The user token is missing"
}
```

Status: 401 Unauthorized

```
{
  "Error": "The user token is invalid"
}
```

Status: 403 Forbidden

```
{
  "Error": "The boat is owned by someone else"
}
```

Status: 403 Forbidden

```
{
  "Error": "The name is already in use"
}
```

Status: 404 Not Found

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

Status: 406 Not Acceptable

```
{  
  "Error": "The Accept type is not supported by this endpoint"  
}
```

Status: 415 Method Not Allowed

```
{  
  "Error": "The request Content Type is unsupported media type"  
}
```

Edit a Boat (all attributes)

Allows you to edit all the attributes (name, type, and length) of a boat.

PUT /boats/:boat_id

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

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": "Odyssey II",
  "type": "Mega Yatch",
  "length": 200
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	303 See Other	Response header includes Location of the updated boat.
Failure	400 Bad Request	Status 400 is given for following reasons: <ul style="list-style-type: none">- The request is missing any of the required attributes- Invalid string in name or type- Invalid number in length Any extraneous attribute is ignored.
Failure	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	403 Forbidden	The boat is owned by someone else.

Failure	403 Forbidden	The requested name is already in use.
Failure	404 Not Found	No boat with this boat_id exists
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.
Failure	415 Method Not Allowed	The request Content Type is unsupported; it only supports application/json.

Response Examples

Success

Status: 303 See Other

```
{
  "length": 200,
  "type": "Mega Yatch",
  "owner": "109781574015761557704",
  "name": "Odyssey II",
  "loads": [],
  "id": "5666707490209792",
  "self": "http://ohsa-project.wl.r.appspot.com/boats/5666707490209792"
}
```

Failure

Status: 400 Bad Request

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

Status: 401 Unauthorized

```
{
  "Error": "The user token is missing"
}
```

Status: 401 Unauthorized

```
{
  "Error": "The user token is invalid"
}
```

Status: 403 Forbidden

```
{
  "Error": "The boat is owned by someone else"
}
```

Status: 403 Forbidden

```
{  
  "Error": "The name is already in use"  
}
```

Status: 404 Not Found

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

Status: 406 Not Acceptable

```
{  
  "Error": "The Accept type is not supported by this endpoint"  
}
```

Status: 415 Method Not Allowed

```
{  
  "Error": "The request Content Type is unsupported media type"  
}
```

Delete a Boat

Allows you to delete a boat. This will unload the boat of any loads first, then delete the boat.

DELETE /boats/:boat_id

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

Request Parameters

None

Request Body

None

Response

No body

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	403 Forbidden	The boat is owned by someone else.
Failure	404 Not Found	No boat with this boat_id exists

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Unauthorized

```
{
  "Error": "The user token is missing"
}
```

Status: 401 Unauthorized

```
{
  "Error": "The user token is invalid"
}
```

Status: 403 Forbidden

```
{  
  "Error": "The boat is owned by someone else"  
}
```

Status: 404 Not Found

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

Create a Load

Allows you to create a new load.

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

Request Body Example

```
{
  "weight": 11,
  "content": "content 1",
  "delivery_date": "06-30-2021"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	Status 400 is given for following reasons: <ul style="list-style-type: none">- The request is missing any of the required attributes- Invalid string in content or delivery_date- Invalid number in weight Any extraneous attribute is ignored.
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.
Failure	415 Method Not Allowed	The request Content Type is unsupported; it only supports application/json.

Response Examples

Success

Status: 201 Created

```
{
  "weight": 11,
  "delivery_date": "06-30-2021",
  "content": "content 1",
  "id": "5670392840585216",
  "self": "http://ohsa-project.wl.r.appspot.com/loads/5670392840585216"
}
```

Failure

Status: 400 Bad Request

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

Status: 406 Not Acceptable

```
{
  "Error": "The Accept type is not supported by this endpoint"
}
```

Status: 415 Method Not Allowed

```
{
  "Error": "The request Content Type is unsupported media type"
}
```

Comments

- 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 and “self” of the boat to which currently this load is assigned. If there no boat is assigned with this load, “carrier” is not displayed.
- The value of the attribute self is a live link to the REST resource corresponding to this load. In other words, this is the URL to get this newly created load.

Get a Load

Allows you to get an existing load.

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
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.

Response Examples

Success

Status: 200 OK
<pre>{ "delivery_date": "06-30-2021", "content": "content 1", "weight": 11, "id": "5751860518453248", "self": "http://localhost:8080/loads/5751860518453248" }</pre>

Failure

Status: 404 Not Found
<pre>{ "Error": "No load with this load_id exists" }</pre>

Status: 406 Not Acceptable

```
{  
  "Error": "The Accept type is not supported by this endpoint"  
}
```


List all Loads

List all the loads.

GET /loads

Request

Request Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	The response is paginated, showing 5 entities at a time, with a 'next' link on every page except the last.
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.

Response Examples

Success

Status: 200 OK

```
{
  "count": 6,
  "next": "http://ohsa-project.wl.r.appspot.com/loads?cursor=CikSI2o0bX5vaHNhLXByb2p1Y3RyEQsSBGxvYWQYgICAuNGdkwoMGAAGAA==",
  "items": [
    {
      "content": "content 4",
      "weight": 14,
      "delivery_date": "06-30-2024",
      "id": "5082810578632704",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5082810578632704"
    },
    {
      "content": "content 3",
      "weight": 13,
      "delivery_date": "06-30-2023",
      "id": "5114509786087424",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5114509786087424"
    }
  ]
}
```

```
    },
    {
      "weight": 12,
      "delivery_date": "06-30-2022",
      "content": "content 2",
      "id": "5665673409724416",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5665673409724416"
    },
    {
      "weight": 11,
      "delivery_date": "06-30-2021",
      "content": "content 1",
      "id": "5670392840585216",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5670392840585216"
    },
    {
      "delivery_date": "06-30-2026",
      "content": "content 6",
      "weight": 16,
      "id": "5714080711049216",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5714080711049216"
    }
  ]
}
```

Failure

Status: 406 Not Acceptable

```
{
  "Error": "The Accept type is not supported by this endpoint"
}
```

Edit a Load (selected attributes)

Allows you to edit selected attributes (weight, content, or delivery_date) of a load.

PATCH /loads/:load_id

Request

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	Integer	The weight of the load	No
content	String	The content of the load	No
delivery_date	String	The delivery date of the load	No

Request Body Example

```
{
  "content": "modified content"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	400 Bad Request	Status 400 is given for following reasons: <ul style="list-style-type: none">- Invalid string in content or delivery_date- Invalid number in weight Any extraneous attribute is ignored.
Failure	404 Not Found	No boat with this load_id exists
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.
Failure	415 Method Not Allowed	The request Content Type is unsupported; it only supports application/json.

Response Examples

Success

Status: 200 OK

```
{
  "delivery_date": "06-30-2021",
  "content": "modified content",
  "weight": 11,
  "id": "5670392840585216",
  "self": "http://ohsa-project.wl.r.appspot.com/loads/5670392840585216"
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request object has invalid character(s) in content attribute"
}
```

Status: 404 Not Found

```
{
  "Error": "No load with this load_id exists"
}
```

Status: 406 Not Acceptable

```
{
  "Error": "The Accept type is not supported by this endpoint"
}
```

Status: 415 Method Not Allowed

```
{
  "Error": "The request Content Type is unsupported media type"
}
```

Edit a Load (all attributes)

Allows you to edit all the attributes (weight, content, and delivery_date) of a load.

PUT /loads/:load_id

Request

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	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

Request Body Example

```
{
  "weight": 300,
  "content": "Super Duper",
  "delivery_date": "12-07-2048"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	303 See Other	Response header includes Location of the updated load.
Failure	400 Bad Request	Status 400 is given for following reasons: <ul style="list-style-type: none">- The request is missing any of the required attributes- Invalid string in content or delivery_date- Invalid number in weight Any extraneous attribute is ignored.
Failure	404 Not Found	No load with this load_id exists
Failure	406 Not Acceptable	The requested Accept type is not supported; it only supports application/json.
Failure	415 Method Not Allowed	The request Content Type is unsupported; it only supports application/json.

Response Examples

Success

Status: 303 See Other

```
{
  "weight": 300,
  "delivery_date": "12-07-2048",
  "content": "Super Duper",
  "id": "5670392840585216",
  "self": "http://ohsa-project.wl.r.appspot.com/loads/5670392840585216"
}
```

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"
}
```

Status: 406 Not Acceptable

```
{
  "Error": "The Accept type is not supported by this endpoint"
}
```

Status: 415 Method Not Allowed

```
{
  "Error": "The request Content Type is unsupported media type"
}
```

Delete a Load

Allows you to delete a load. If the load being deleted is assigned to a boat, it is unloaded from the boat.

DELETE /loads/:load_id

Request

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
<pre>{ "Error": "No load with this load_id exists" }</pre>

Assign a Load to a Boat

A load is assigned to a boat.

PUT /boats/:boat_id/loads/:load_id

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

Request Parameters

None

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	204 No Content	Succeeds only if a boat exists with this boat_id, the boat is owned by the requesting user, a load exists with this load_id, and the load is not assigned.
Failure	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	403 Forbidden	The boat is owned by someone else.
Failure	403 Forbidden	The load is already assigned to a boat.
Failure	404 Not Found	No boat with this boat_id exists, and/or no load with this load_id exists.

Response Examples

Success

Status: 204 No Content

Failure

Status: 401 Unauthorized

<pre>{ "Error": "The user token is missing" }</pre>

Status: 401 Unauthorized

```
{  
  "Error": "The user token is invalid"  
}
```

Status: 403 Forbidden

```
{  
  "Error": "The boat is owned by someone else"  
}
```

Status: 403 Forbidden

```
{  
  "Error": "The load already has a carrier"  
}
```

Status: 404 Not Found

```
{  
  "Error": "The specified boat and/or load don't exist"  
}
```

Unload a Load from a Boat

Unload the load from the boat.

```
DELETE /boats/:boat_id/loads/:load_id
```

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

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, the boat is owned by the requesting user, a load exists with this load_id, and the load is not assigned.
Failure	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	403 Forbidden	The boat is owned by someone else.
Failure	404 Not Found	No load with this load_id is assigned to a boat with this boat_id.

Response Examples

Success

```
Status: 204 No Content
```

Failure

```
Status: 401 Unauthorized
```

```
{
  "Error": "The user token is missing"
}
```

```
Status: 401 Unauthorized
```

```
{  
  "Error": "The user token is invalid"  
}
```

Status: 403 Forbidden

```
{  
  "Error": "The boat is owned by someone else"  
}
```

Status: 404 Not Found

```
{  
  "Error": "No load with this loadID is on the boat with this boatID"  
}
```

Get Loads on a Boat

View all the loads currently on the boat.

GET /boats/:boat_id/loads

Request

Protected?

Yes (JWT as Bearer token required in the Authorization header)

Request Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	The response is not paginated.
Failure	401 Unauthorized	Status 401 is given for missing or invalid JWT.
Failure	403 Forbidden	The boat is owned by someone else.
Failure	404 Not Found	No boat with this boat_id exists

Response Examples

Success

```
Status: 200 OK

{
  "items": [
    {
      "delivery_date": "06-30-2023",
      "content": "content 3",
      "weight": 13,
      "id": "5114509786087424",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5114509786087424"
    },
    {
      "delivery_date": "06-30-2024",
      "content": "content 4",
      "weight": 14,
      "id": "5082810578632704",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5082810578632704"
    }
  ],
}
```

```

    {
      "delivery_date": "06-30-2025",
      "content": "content 5",
      "weight": 15,
      "id": "5736741495373824",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5736741495373824"
    },
    {
      "weight": 16,
      "delivery_date": "06-30-2026",
      "content": "content 6",
      "id": "5714080711049216",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5714080711049216"
    },
    {
      "delivery_date": "12-07-2048",
      "content": "Super Duper",
      "weight": 300,
      "id": "5670392840585216",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5670392840585216"
    },
    {
      "delivery_date": "06-30-2022",
      "content": "content 2",
      "weight": 12,
      "id": "5665673409724416",
      "self": "http://ohsa-project.wl.r.appspot.com/loads/5665673409724416"
    }
  ],
  "count": 6
}

```

Failure

Status: 401 Unauthorized

```

{
  "Error": "The user token is missing"
}

```

Status: 401 Unauthorized

```

{
  "Error": "The user token is invalid"
}

```

Status: 403 Forbidden

```

{
  "Error": "The boat is owned by someone else"
}

```

Status: 404 Not Found

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