

Portfolio Project

Spring 2022

Oregon State University

Last Update: June 2 10:00 am Eastern

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URL: <https://assignment6-349118.uk.r.appspot.com>

Change log

| Version | Change | Date |
|---------|--------|------|
|---------|--------|------|

| | | |
|-----|------------------|--------------|
| 1.0 | Initial version. | June 2, 2022 |
|-----|------------------|--------------|

Data Model

The app stores three kinds of entities in Datastore, Boats, Loads, and Owners.

Boats

| Property | Data Type | Notes |
|----------|-----------|--|
| id | Integer | The id of the boat. Datastore automatically generates it. Don't add it yourself as a property of the entity. |
| name | String | Name of the boat. |
| type | String | Type of the boat. E.g., Sailboat, Catamaran, etc. |
| length | Integer | The length of the boat in feet. |
| public | Boolean | Whether the boat is visible to others. |
| owner | String | Subject of owner of boat. |
| Load | Array | Loads loaded onto boat. |
| Self | URL | URL to the boat. |

Loads

| Property | Data Type | Notes |
|---------------|-----------|--|
| id | Integer | The id of the slip. Datastore automatically generates it. Don't add it yourself as a property of the entity. |
| carrier | Integer | The id of the boat carrying the load. Newly created loads should be unassigned to a boat. |
| volume | Integer | The volume of the load. |
| creation_date | String | The date the load was created. (MM/DD/YYYY). |
| item | String | The name of the item stored in the load. |
| Self | URL | URL of the load. |

Owner

| Property | Data Type | Notes |
|---------------|-----------|--|
| id | Integer | The id of the slip. Datastore automatically generates it. Don't add it yourself as a property of the entity. |
| carrier | Integer | The id of the boat carrying the load. Newly created loads should be unassigned to a boat. |
| volume | Integer | The volume of the load. |
| creation_date | String | The date the load was created. (MM/DD/YYYY). |

url: <https://assignment6-349118.uk.r.appspot.com>

| | | |
|------|--------|--|
| item | String | The name of the item stored in the load. |
| Self | URL | URL of the load. |

Create a Boat

Allows you to create a new boat.

POST /boats

Request

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Authorization

Required

Request JSON Attributes

| Name | Description | Required? |
|--------|---|-----------|
| name | The name of the boat. | Yes |
| type | The type of the boat. E.g., Sailboat, Catamaran, etc. | Yes |
| length | Length of the boat in feet. | Yes |
| Public | Whether boat is public or private. | Yes |

Request Body Example

```
{
  "name": "Heralds Raft",
  "type": "Raft",
  "length": 10,
  "public": "false"
}
```

Response

Response Body Format

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|-------------|-------|
| Success | 201 Created | |

| | | |
|---------|------------------|---|
| Failure | 400 Bad Request | <p>If the request is missing any of the 4 required attributes, the boat must not be created, and 400 status code must be returned.</p> <p>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.</p> <p>You can also assume that the request will not contain any extraneous attribute (i.e., the request JSON will never contain any attribute that is not listed above).</p> |
| Failure | 401 Unauthorized | Request made with no/invalid token. |
| Failure | 406 Unacceptable | Request made with inappropriate accepts. |

Response Examples

- Datastore will automatically generate an ID and store it with the entity being created. Your app must send back this value in the response body as shown in the example.

Success

```
Status: 201 Success
{
  "name": "Heralds Raft",
  "type": "Raft",
  "length": 10,
  "public": "true",
  "owner": "auth0|62937291f9d32a006f9185b0",
  "loads": [],
  "id": "5670626983411712",
  "self": "http://localhost:8080/boats/5670626983411712"
}
```

Failure

Status: 400 Bad Request

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

Failure

Status:401 Unauthorized

```
{
  "Error": "Invalid Token"
}
```

Failure

Status:406 Not Acceptable

```
{
  "Error": "Not acceptable"
}
```

View a Boat

Allows you to get an existing boat

GET /boats/:boat_id

Request

Path Parameters

None

Request Body

None

Request Body Format

JSON

Authorization

Required

| Name | Description |
|---------|----------------|
| boat_id | ID of the boat |

Response

Response Body Format

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|--------------------|--|
| Success | 200 OK | |
| Success | 200 OK | If invalid authorization or request not authorized, list of all public boats will be returned. |
| Failure | 401 Forbidden | Invalid token. |
| Failure | 403 Forbidden | Requesting access to private boat |
| Failure | 404 Not Found | No boat with this boat_id exists |
| Failure | 406 Not acceptable | Invalid Accepts |

Response Examples

Success

Status: 200 OK

```
{
  "id": 5843605314863104,
  "name": "Sea Witch",
  "type": "Catamaran",
  "length": 28,
  "self": "https://appspot.com /boats/5843605314863104",
  "loads": [
    {
      "id": "6134949857984512",
      "item": "LEGO Blocks",
      "self": "http://appspot.com/loads/6134949857984512"
    }
  ]
}
```

Success

```
Status: 200 OK (Only public boats)
[
  {
    "name": "Heralds Raft",
    "length": 10,
    "owner": "auth0|62937291f9d32a006f9185b0",
    "public": "true",
    "loads": [],
    "type": "Raft",
    "id": 4854552394203136
  },
  {
    "loads": [],
    "type": "Raft",
    "name": "Heralds Raft",
    "length": 10,
    "owner": "auth0|62937291f9d32a006f9185b0",
    "public": "true",
    "id": 6198875278802944
  },
  {
    "owner": "auth0|62937291f9d32a006f9185b0",
    "public": "true",
    "loads": [],
    "name": "Heralds Raft",
    "length": 10,
    "type": "Raft",
    "id": 6259396065624064
  }
]
```

Failure

```
Status: 404 Not Found

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


Failure

Status: 401 Not Found

```
{  
  "Error": "Invalid permissions" }
```

Failure

Status: 403 Forbidden

```
{  
  "Error": "Only boat owner can access this boat"}
```

Failure

Status: 406 Not Acceptable

```
{  
  "Error": "Not acceptable"  
}
```

Update a Boats

Updates a boat.

Patch /boats/:boat_id

Request

Path Parameters

None

Request Body

Required

Authorization

Required

Response

Response Body Format

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|--------------------|---------------------------------|
| Success | 405 Non supported. | This function is not supported. |

| | | |
|---------|--------------------|------------------------|
| Failure | 406 Not Acceptable | Invalid accepts header |
|---------|--------------------|------------------------|

Failure

Status: 405 Not Supported

```
{}
```

View all Boats

List all the boats.

GET /boats

Request

Path Parameters

None

Request Body

None

Authorization

Required

Response

Response Body Format

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|--------------------|---|
| Success | 200 OK | Private boats are not displayed for request made without key. Will return all public boats, as well as private boats for user making request. |
| Failure | 406 Not Acceptable | Invalid Accepts header |

Response Examples

Success

Status: 200 OK

```
[
  {
    "length": 10,
    "type": "Raft",
    "loads": [
      {
        "carrier": 4854552394203136,
        "owner": "auth0|62937291f9d32a006f9185b0",
        "creation_date": "10/18/2021",
        "item": "LEGO Blocks",
        "volume": 5,
        "id": 5203205155717120,
        "self": "http://localhost:8080/loads/5203205155717120"
      },
      {
        "creation_date": "10/18/2021",
        "volume": 5,
        "owner": "auth0|62937291f9d32a006f9185b0",
        "item": "LEGO Blocks",
        "carrier": 4854552394203136,
        "id": 5759630718271488,
        "self": "http://localhost:8080/loads/5759630718271488"
      }
    ],
    "owner": "auth0|62937291f9d32a006f9185b0",
    "name": "Heralds Raft",
    "public": "true",
    "id": 4854552394203136,
    "self": "http://localhost:8080/boats/4854552394203136"
  },
  {
    "owner": "auth0|62937291f9d32a006f9185b0",
    "name": "Heralds Raft",
    "public": "true",
    "loads": [],
    "length": 10,
```

```
"type": "Raft",  
"id": 6198875278802944,  
"self": "http://localhost:8080/boats/6198875278802944"  
}]
```

Failure

```
Status:406 Not Acceptable
{
  "Error": "Not acceptable"
}
```

Delete a Boat

Allows you to delete a boat. Delete a boat will unload any loads that are loaded onto it.

DELETE /boats/:boat_id

Request

Path Parameters

| Name | Description |
|---------|----------------|
| boat_id | ID of the boat |

Request Body

None

Authorization

Required

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 | Invalid Token |

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": "Invalid Token"  
}
```

Assign a load to a boat

Allows you to put a load onto a boat

PUT boats/:boat_id/loads/:load_id

Request

Path Parameters

None

Request Body

Required

Request Body Format

None

Authorization

Required

Response Body Format

Success: No body

Failure: JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|---------------------|--|
| Success | 204 No Content | Only load owner can assign loads. Able to assign to all public boats and private boats they own. |
| Failure | 404 Not Found | No boat with this boat_id exists |
| Failure | 401 Unauthorized | Invalid Token |
| Failure | 403 Unauthorized | Invalid requester. |
| Failure | 406 Not Acceptable. | Invalid Accepts header |

Failure

Status: 404 Not Found

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

```
}
```

Failure

Status: 401 Unauthorized

```
{  
  "Error": "Invalid Token"  
}
```

Failure

Status: 403 Forbidden

```
{  
  "Error": "The load is already loaded onto another boat"  
}
```

Failure

Status: 406 Not Acceptable

```
{  
  "Error": "Not acceptable"  
}
```

Comment

- A load cannot be assigned to multiple boats.

Delete load from boat

Allows you to delete a load from a boat

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

Request

Path Parameters

None

Request Body

Required

Request Body Format

None

Authorization

Required

Response Body Format

Success: No body

Failure: JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|------------------|--|
| Success | 204 No content | |
| Failure | 404 Not Found | No boat/load with this id exist. No load with this load id is loaded onto this boat. |
| Failure | 401 Unauthorized | Invalid Token |
| Failure | 403 Unauthorized | Wrong owner |

Failure

Status: 404 Not Found

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

Failure

Status: 401 Unauthorized

```
{
  "Error": "Invalid Token"
}
```

Failure

Status: 403 Unauthorized

```
{
  "Error": " Only owner can delete load"
}
```

Get all loads for a given boat

Gets a list of all loads loaded onto a boat.

```
GET boats/:boat_id/loads
```


Request

Path Parameters

None

Request Body

Required

Request Body Format

None

Authorization

Required

Response Body Format

Success: No body

Failure: JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|---------------------|--|
| Success | 200 OK | A list of loads for a boat. Do not need to be boat owner to get list of loads. |
| Failure | 404 Not Found | No boat/load with this id exist. No load with this load id is loaded onto this boat. |
| Failure | 401 Unauthorized | Invalid Token |
| Failure | 406 Not Acceptable. | Invalid Accepts header. |

Success

| |
|---|
| Status: 200 Success |
| <pre>{ "loads": [{ "id": 4845893136154624, "item": "Furnitures", "creation_date": "10/20/2021", "self": "http://localhost:8080/loads/4845893136154624" }, { "id": 4920901048991744, "item": "Toys", "creation_date": "10/21/2021", "self": "http://localhost:8080/loads/4920901048991744" } }</pre> |

```
}, {
  "id": 5104536804917248,
  "item": "Food",
  "creation_date": "10/19/2021",
  "self": "http://localhost:8080/loads/5104536804917248"
}, {
  "id": 5679735535304704,
  "item": "Stuffed Animals",
  "creation_date": "10/19/2021",
  "self": "http://localhost:8080/loads/5679735535304704"
}]
}
```

Failure

```
Status: 404 Not Found

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

Failure

```
Status: 401 Unauthorized

{
  "Error": "Invalid Token"
}
```

Failure

```
Status: 406 Not Acceptable

{
  "Error": "Not acceptable"
}
```

Create a Load

Allows you to create a new Load.

POST /loads

Request

Path Parameters

None

Request Body

Required

Authorization

Required

Request Body Format

JSON

Request JSON Attributes

| Name | Description | Required? |
|---------------|-------------------------------|-----------|
| volume | The volume of the load | Yes |
| Item | The item inside the load | Yes |
| Creation_date | The date the load was created | Yes |

Request Body Example

```
{  
  "volume": 5,  
  "item": "LEGO Blocks",  
  "creation_date": "10/18/2021"  
}
```

Response

Response Body Format

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|-------------|-------|
| Success | 201 Created | |

| | | |
|---------|--------------------|--|
| Failure | 400 Bad Request | <p>If the request is missing the an attribute, the load must not be created, and 400 status code must be returned.</p> <p>You don't need to validate the values of the attributes and can assume that if the attributes are specified, then its value is valid.</p> <p>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).</p> |
| Failure | 401 Unauthorized | Request made with no/invalid token. |
| Failure | 406 Not Acceptable | Invalid Accepts Header |

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 the load is currently loaded onto. If the load is not on a boat, the value of `carrier` should be null.

Success

```
Status: 201 Successful
{
  "volume": 5,
  "item": "LEGO Blocks",
  "creation_date": "10/18/2021",
  "carrier": null,
  "owner": "auth0|62937291f9d32a006f9185b0",
  "id": "6216706305294336",
  "self": "http://localhost:8080/loads/6216706305294336"
}
```

Failure

```
Status: 400 Bad Request

{
  "Error": "The request object is missing the required attributes"
}
```

Failure

```
Status: 401 Unauthorized

{
  "Error": "Invalid Token"
}
```

Failure

```
Status: 406 Not Acceptable

{
  "Error": "Not acceptable"
}
```

Get a Load

Allows you to get an existing load.

GET /loads/:load_id

Request

Path Parameters

None

Request Body

Required

Request Body Format

None

Authorization

Required

Path Parameters

| Name | Description |
|---------|----------------|
| load_id | ID of the load |

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 | 401 Unauthorized | Invalid token. Requesting boat not owned by user. |
| Failure | 406 Not Acceptable | Invalid accepts header. |

Response Examples

Success

```
Status: 200 OK
{
  "id": 6134949857984512,
  "volume": 5,
```

```
"carrier": {  
  "id": 5843605314863104,  
  "name": "Sea Witch",  
  "self": "http://localhost:8080/boats/5843605314863104"  
},  
"item": "LEGO Blocks",  
"creation_date": "10/18/2021",  
"self": "https://appspot.com /loads/6134949857984512"  
}
```

Failure

Status: 404 Not Found

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

Failure

Status: 401 Unauthorized

```
{  
  "Error": "Invalid Token"  
}
```

Failure

Status: 406 Not Acceptable

```
{  
  "Error": "Not acceptable"  
}
```

List all Loads

List all the loads.

GET /loads

Request

Path Parameters

None

Request Body

None

Authorization

Required

Response

Response Body Format

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|--------------------|----------------------------|
| Success | 200 OK | Displays 5 loads per page. |
| Failure | 401 Unauthorized | Invalid Token |
| Failure | 406 Not Acceptable | Invalid Accepts Header |

Response Examples

Success

Status: 200 OK

```
{
  "loads": [{
    "owner": "auth0|62801afbcd06b800691968df",
    "item": "Clothes",
    "carrier": 6479227725545472,
```



```
"creation_date": "10/18/2021",
"volume": 10,
"id": 4593251281534976,
"self": "http://localhost:8080/loads/4593251281534976"
}, {
  "volume": 3,
  "carrier": 5472268213813248,
  "creation_date": "10/19/2021",
  "item": "Food",
  "owner": "auth0|627fe3d114b2c60069e66387",
  "id": 4649640376926208,
  "self": "http://localhost:8080/loads/4649640376926208"
}, {
  "volume": 7,
  "owner": "auth0|627fe3d114b2c60069e66387",
  "item": "Furnitures",
  "carrier": 5472268213813248,
  "creation_date": "10/20/2021",
  "id": 5036229645041664,
  "self": "http://localhost:8080/loads/5036229645041664"
}, {
  "carrier": 5472268213813248,
  "volume": 10,
  "creation_date": "10/19/2021",
  "owner": "auth0|627fe3d114b2c60069e66387",
  "item": "Stuffed Animals",
  "id": 5452229842567168,
  "self": "http://localhost:8080/loads/5452229842567168"
}, {
  "carrier": 5472268213813248,
  "creation_date": "10/21/2021",
  "owner": "auth0|627fe3d114b2c60069e66387",
  "volume": 4,
  "item": "Toys",
  "id": 5841722978336768,
  "self": "http://localhost:8080/loads/5841722978336768"
}],
"next":
"http://localhost:8080/loads?cursor=/Ci8SKWoUZH5hc3NpZ25tZW50Ni0zNDkxMThyEQsSBGxvYWQYglCA%2B
MGgsAoMGAAgAA%3D%3D"
```

Failure

Status: 401 Unauthorized

```
{
  "Error": "Invalid Token"
}
```

Failure

Status: 406 Not Acceptable

```
{
  "Error": "Not acceptable"
}
```

```
}
```

Delete a Load

Allows you to delete a load. Will update the boat that is carrying it."

```
DELETE /loads/:load_id
```

Request

Path Parameters

| Name | Description |
|---------|----------------|
| load_id | ID of the load |

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|------------------|----------------------------------|
| Success | 204 No Content | Will unassign load from carrier. |
| Failure | 404 Not Found | No load with this load_id exists |
| Failure | 401 Unauthorized | Invalid or no token |
| Failure | 403 Unauthorized | Only load owner can delete. |

Response Examples

Success

```
Status: 204 No Content
```

Failure

```
Status: 404 Not Found
```

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

Failure

```
Status: 403 Unauthorized
```

```
{  
  "Error": "Only owner can delete load"  
}
```

Remove a load from a boat.

The load was unloaded from the boat.

DELETE /boats/:boat_id/loads/:load_id

Request

Path Parameters

| Name | Description |
|---------|----------------|
| load_id | ID of the load |
| boat_id | ID of the boat |

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 the boat. |
| Failure | 404 Not Found | No boat with this load_id is on the boat with this boat_id. This could be because no boat with this boat_id exists, or because no load with load_id exists, or even if both boat_id and load_id are valid, the load with this load_id is not on the load with this load_id |

Response Examples

Success

Status: 204 No Content

Failure

```
Status: 404 Not Found
{
  "Error": "No boat with this boat_id is loaded with the load with this load_id" }
```

Get all loads for a given boat.

The load was unloaded from the boat.

GET /boats/:boat_id/loads

Request

Path Parameters

| Name | Description |
|---------|----------------|
| boat_id | ID of the boat |

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|--------------------|---|
| Success | 200 No Content | Succeeds only if a boat exists with this boat_id,. |
| Failure | 404 Not Found | No boat with this load_id is on the boat with this boat_id. |
| Failure | 406 Not Acceptable | Invalid accepts header. |

Response Examples

Success

```
Status: 200
{
  "loads": [
    {
      "id": 4710546368626688,
      "item": "Furnitures",
      "creation_date": "10/20/2021",
      "self": "http://localhost:8080/loads/4710546368626688"
    },
    {
      "id": 5571999904563200,
      "item": "Stuffed Animals",
      "creation_date": "10/19/2021",
      "self": "http://localhost:8080/loads/5571999904563200"
    },
    {
      "id": 6558073728532480,
      "item": "Food",
      "creation_date": "10/19/2021",
      "self": "http://localhost:8080/loads/6558073728532480"
    }
  ]
}
```

Failure

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

Failure

```
Status:406 Not Acceptable
{
  "Error": "Not acceptable"
}
```

Edit a load

Allows you to edit an existing load.

PATCH /loads/:load_id

Request

Path Parameters

None

Request Body

Parameters to be updated

Response Statuses

| Outcome | Status Code | Notes |
|---------|---------------------|---|
| Success | 200 OK | |
| Failure | 404 Not Found | No load with this load_id exists |
| Failure | 403 Unauthorized | Only load owner can edit this boat. |
| Failure | 401 Unauthorized | Invalid token. Requesting boat not owned by user. |
| Failure | 406 Not Acceptable. | Invalid accepts header. |

Success

Status: 200

```
{
  "id": 4696769522827264,
  "volume": 5,
  "item": "Sofas",
  "creation_date": "10/18/2021",
  "owner": "auth0|62937291f9d32a006f9185b0",
  "self": "http://localhost:8080/loads/4696769522827264"
}
```

Failure

Status: 404 Not Found

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

Failure

Status: 403 Unauthorized

```
{
  "Error": "Only owner can delete load"
}
```

Failure

| |
|--------------------------|
| Status: 401 Unauthorized |
| { |
| "Error": "Invalid Token" |
| } |
| |

Failure

| |
|---------------------------|
| Status:406 Not Acceptable |
| { |
| "Error": "Not acceptale" |
| } |

Request Body Format

Request JSON

Attributes

| Name | Description | Required? |
|---------------|-------------------------------|-----------|
| volume | The volume of the load | Yes |
| Item | The item inside the load | Yes |
| Creation_date | The date the load was created | Yes |

Authorization

Required

Request JSON

Response Statuses

Create an Owner

Allows you to create a new owner.

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

Request

Path Parameters

None

Request Body

None

Request Body Format

None

Authorization

Required

Request JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|---------------------|--------------------------------|
| Success | 201 Created. | |
| Failure | 400 Bad Request. | Owner already exist. |
| Failure | 401 Unauthorized. | Request with no/invalid token. |
| Failure | 406 Not Acceptable. | Invalid Accepts Header |

Response Examples

- Datastore will automatically generate an ID and store it with the entity being created. Your app must send back this value in the response body as shown in the example.

Success

```
Status: 201 Success
{
  "email": "herald@email.com",
  "sub": "auth0|62937291f9d32a006f9185b0",
  "boats": [],
  "loads": [],
  "id": "4797145727107072",
  "self": "http://localhost:8080/owners/4797145727107072"
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "Owner already exist"
}
```


Failure

```
Status: 401 Unauthorized
{
  "Error": "Invalid Token"
}
```

Failure

```
Status: 406 Not Acceptable
{
  "Error": "Not acceptable"
}
```

Get all owners.

Allows get a list of all owners.

GET /owners

Request

Path Parameters

None

Request Body

None

Request Body Format

None

Authorization

Required

Request JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|---------------------|--------------------------------|
| Success | 201 Created. | |
| Failure | 401 Unauthorized. | Request with no/invalid token. |
| Failure | 406 Not Acceptable. | Invalid accepts header. |

Success

```
Status: 200 Success
[{
  "loads": [],
  "email": "wallace@cheese.com",
  "id": 4851469480099840,
  "owner": "auth0|627fe3d114b2c60069e66387"
}, {
  "email": "jim@burger.com",
  "loads": [],
  "id": 4917921214103552,
  "owner": "auth0|62801afbcd06b800691968df"
}]
```

Failure

Failure: 401 Unauthorized.

```
{
  "Error": "Invalid Token"
}
```

Failure

Status:406 Not Acceptable

```
{
  "Error": "Not acceptable"
}
```

Get all boats for owner

Gets all boats for owner

GET /owners/:owner_id/boats

Request

Path Parameters

None

Request Body

None

Authorization

Required

Request Body Format

None

Authorization

Required

Request

JSON

Response Statuses

| Outcome | Status Code | Notes |
|----------|---------------------|---|
| Success | 200 Success. | If owner making request, will return all boats. If not owner, will return list of all public boats for owner. |
| Failure | 404 Invalid Request | Owner ID does not exist. |
| Failure | 401 Unauthorized. | Request with no/invalid token. |
| Failure. | 406 Not Acceptable. | Invalid accepts header. |

Success

Status: 200 Success

```
[{
  "public": "true",
  "loads": [],
  "type": "Raft",
  "name": "Heralds Raft",
  "owner": "auth0|62937291f9d32a006f9185b0",
  "length": 10,
  "id": 4801562933198848
}, {
  "public": "true",
  "length": 10,
  "name": "Heralds Raft",
  "type": "Raft",
  "owner": "auth0|62937291f9d32a006f9185b0",
```

```
"loads": [],
"id": 4867608759238656
}, {
  "type": "Raft",
  "loads": [],
  "owner": "auth0|62937291f9d32a006f9185b0",
  "name": "Heralds Raft",
  "length": 10,
  "public": "false",
  "id": 6029034018308096
}, {
  "owner": "auth0|62937291f9d32a006f9185b0",
  "public": "true",
  "loads": [],
  "type": "Raft",
  "length": 10,
  "name": "Heralds Raft",
  "id": 6243544213749760
}]
```

Failure

```
Failure: 404 Invalid.
{
  "Error": "Invalid Token"
}
```

Failure

```
Failure: 401 Unauthorized.
{
  "Error": "Invalid Token"
}
```

Failure

```
Status:406 Not Acceptable
{
```

```
"Error": "Not acceptable"
}
```

Get owner

Gets an owner by id

GET /owners/:owner_id

Request

Path Parameters

None

Request Body

None

Authorization

Required

Request Body Format

None

Authorization

Required

Request

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|---------------------|--------------------------------|
| Success | 200 Success. | Returns specified owner. |
| Failure | 404 Invalid Request | Owner ID does not exist. |
| Failure | 403 Forbidden. | Request made by non-owner. |
| Failure | 401 Unauthorized. | Request with no/invalid token. |
| Failure | 406 Not Acceptable. | Invalid Accepts header. |

Success

```
Status: 200 Success
{
  "boats": [],
  "loads": [],
  "sub": "auth0|62937291f9d32a006f9185b0",
  "email": "herald@email.com",
  "id": 4693342642241536,
  "self": "http://localhost:8080/owners/4693342642241536"
}
```

Failure

```
Failure: 404 Invalid.
{
  "Error": "The specified owner does not exist"
}
```

Failure

```
Failure: 401 Unauthorized.
{
  "Error": "Invalid Token"
}
```

Failure

```
Failure: 403 Unauthorized.
{
  "Error": "Only owner can access owner"
}
```

Failure

```
Status:406 Not Acceptable
{
  "Error": "Not acceptable"
}
```

```
}
```

Get all Loads for owner

Gets all boats for owner

GET /owners/:owner_id/loads

Request

Path Parameters

None

Request Body

None

Authorization

Required

Request Body Format

None

Authorization

Required

Request

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|---------------------|--|
| Success | 200 Success. | Returns a list of all loads for owner. |
| Failure | 404 Invalid Request | Owner ID does not exist. |
| Failure | 401 Unauthorized. | Request with no/invalid token. |
| Failure | 406 Not Acceptable. | Invalid Accepts header. |

Success

Status: 200 Success

```
[{
  "carrier": 4867608759238656,
  "volume": 5,
  "creation_date": "10/18/2021",
  "item": "LEGO Blocks",
  "owner": "auth0|62937291f9d32a006f9185b0"
}, {
  "creation_date": "10/18/2021",
  "carrier": 4867608759238656,
  "owner": "auth0|62937291f9d32a006f9185b0",
  "item": "LEGO Blocks",
  "volume": 5
}, {
  "item": "LEGO Blocks",
  "creation_date": "10/18/2021",
  "carrier": 6243544213749760,
  "owner": "auth0|62937291f9d32a006f9185b0",
  "volume": 5
}, {
  "item": "Sofas",
  "volume": 5,
  "creation_date": "10/18/2021",
  "owner": "auth0|62937291f9d32a006f9185b0"
}]
```

Failure

Failure: 404 Invalid.

```
{
  "Error": "The specified owner does not exist"
}
```


Failure

Failure: 401 Unauthorized.

```
{
  "Error": "Invalid Token"
}
```

Failure

Status:406 Not Acceptable

```
{
  "Error": "Not acceptable"
}
```

Delete owner.

Allows you to delete an owner. Deleting an owner will delete all boats and loads associated with that owner. Loads loaded on boat will be unloaded.

DELETE /owners/:owner_id.

Request

Path Parameters

None

Request Body

None

Authorization

Required

Request Body Format

None

Authorization

Required

Request

JSON

Response Statuses

| Outcome | Status Code | Notes |
|---------|--------------|-------------|
| Success | 204 Success. | No content. |

| | | |
|---------|---------------------|--------------------------------|
| Failure | 404 Invalid Request | Owner ID does not exist. |
| Failure | 401 Unauthorized. | Request with no/invalid token. |
| Failure | 403 Unauthorized | Only owner can delete |

Success

200: Success.

Failure

```
Failure: 404 Invalid.
{
  "Error": "The specified owner does not exist"
}
```

Failure

```
Failure: 401 Unauthorized.
{
  "Error": "Invalid permission... You must be owner to delete."
}
```

Failure

```
Failure: 403 Unauthorized.
{
  "Error": "Only load owner can delete."
}
```