

Url: <https://leese5-jwt.wl.r.appspot.com/>

Click “log in” to sign up to get id_token.

Copy and paste id_tokens to jwt1 and jwt2 in the postman environment file.

Data Model

Users

Property	Data Type	Notes
id	string	User_id is JWT's sub property.

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
length	integer	Length of the boat in feet.
owner	string	User_id of who owns this boat.
public	string	Publicity of this boat.
loads	array	Loads on this boat.
self	string	Self_url for this boat
type	string	Type of this boat.

Loads

Property	Data Type	Notes
Id	integer	The id of the load. Datastore automatically generates it. Don't add it yourself as a property of the entity.
creation_date	string	Creation_date of this load
item	string	Item name of this load.
volume	integer	Volume of this load.
self	string	Self_url of this load
carrier	boat	The boat which this load is on.

Get Users

Allows you to get all users who signed up

GET /users

Request

None

Response

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	

Response Example

Success

```
[
  {
    "unique ID": {
      "access_token":
"eyJhbGciOiJIaXLCJlbnMiOiJBMjU2R0NNIiwiaXNzIjoiaHR0cHM6Ly9kZXYtaDZuaTRrbXBzZWdkbWVrby51cy5hdXRoMC5jb20vIn0..b8flcy4i834CCM46.r16MPq6rjAx-P9ISQcunF4IECjs-FShakGZvteClu3JoDLvLCV_dnCzvg2YD6bSru1mdCLcJHSMIEz78eJL7DOWiA7holYqYqJsOjJ8XHwDo2g9rEfhU631PWooj2-y9S6dyK-blDg3oH-AUL4V7uD7XOgTvULbNKHqYQZZkt0CN8DwygM0URRAkagAeXUqD9FStkM47Vgju8NJ40jNtMbpbtM1H64QhO1Fq3eKNpaChvXXmO8Wa4hPPXMvVtok6jDXZ0q_F_d-hP6JJZ_SEEhrNREDe4PkKrBpMxHy3Iefp8f5Wt8X2vkMGD40NsNzfvF2IF7CmzU6tzWs6ESN0m1CGIUQDo1nM.KiGE-JJ2JHO0Ciyet09SRw",
      "expires_at": 1702087314,
      "expires_in": 86400,
      "id_token":
"eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImNNTlplbU1aMGZkNmhOajV1QjFuZyJ9.eyJnaXZlbnIuYW1lIjojQW5hbnRlIiwiaXNzIjoiaHR0cHM6Ly9kZXYtaDZuaTRrbXBzZWdkbWVrby51cy5hdXRoMC5jb20vIn0..b8flcy4i834CCM46.r16MPq6rjAx-P9ISQcunF4IECjs-FShakGZvteClu3JoDLvLCV_dnCzvg2YD6bSru1mdCLcJHSMIEz78eJL7DOWiA7holYqYqJsOjJ8XHwDo2g9rEfhU631PWooj2-y9S6dyK-blDg3oH-AUL4V7uD7XOgTvULbNKHqYQZZkt0CN8DwygM0URRAkagAeXUqD9FStkM47Vgju8NJ40jNtMbpbtM1H64QhO1Fq3eKNpaChvXXmO8Wa4hPPXMvVtok6jDXZ0q_F_d-hP6JJZ_SEEhrNREDe4PkKrBpMxHy3Iefp8f5Wt8X2vkMGD40NsNzfvF2IF7CmzU6tzWs6ESN0m1CGIUQDo1nM.KiGE-JJ2JHO0Ciyet09SRw"
    }
  }
]
```

```
QUNnOG9jSlI4bmpwRW5yQkw2eUxOVdVwYmt1eFo0XzVOcHVDUkdnaW9QQkNUdWVQPXM5Ni1jliwibG9jYWxlIj
oiZW4iLCJ1cGRhdGVkX2F0IjoiMjAyMy0xMi0wOFQwMjowMTo1My45MjNaliwiZW1haWwiOiJzdW5kYXJhYUBvcnV
nb25zdGF0ZS5lZHUilCJlbWFpbF92ZXJpZmllZCI6dHJ1ZSwiaXNzIjoiaHR0cHM6Ly9kZXYtaDZuaTRrbXBzbWdkbW
hrby51cy5hdXR0MC5jb20vliwiYXVkljoiMDFwdVY1RE90YUF3Q0hoYWZHTnV6ZDJ3RVh2SXFmdW4iLCJpYXQiOiE
3MDIwMDA5MTQsImV4cCI6MTcwMjAzNjknNCwic3ViljoiZ29vZ2xlLW9hdXR0MnwxMTcxNjI4MDUxMjk1MzlyMDg0N
DUiLCJzaWQiOiZ1Z1NibTg1MG9HQzJ1dXFHQ1hXQ2VJVzc5VW5ON1RpWilsIm5vbmNlljoiNEdLajJPOGdGSXpTYj
JqTEk3UTEifQ.NAjBLbRNOYKYRr7jxg6sVfolCPp4sFsQx4PpVkBWitiGs80NouXQpgNS_xD_K7UWG9U74XqtYXMy
LftT2ndc-IYkNrTJXKmyfQ-85eQAZ9rViqhbGFT6omrLAIE1pkzsGtdX8PODTlarkK5HxPWM4RKME5LjI2q6wdSZXzXP
gciFIVs7fq2AEnzYKCqUaaxmpeA7zQFxurB4exfiwNjBIQ6XYrEzFG9WcWzb9tzlZbf6ub1SZpXhVVYEOFiBy20v7BWE
l94wFnGEop7ZeXSmLNjKoUvv_VjZoH_9BK_5pwwg_65ynZE2xGWbOV-BOCsv771yJuLQpXCdw2zLV3hm0w",
  "scope": "openid profile email",
  "token_type": "Bearer",
  "userinfo": {
    "aud": "01puV5DOtaAwCHhafGNuzd2wEXvlqfun",
    "email": "sundaraa@oregonstate.edu",
    "email_verified": true,
    "exp": 1702036914,
    "family_name": "Sundararajan",
    "given_name": "Ananya",
    "iat": 1702000914,
    "iss": "https://dev-h6ni4kmpsmgdmhko.us.auth0.com/",
    "locale": "en",
    "name": "Ananya Sundararajan",
    "nickname": "sundaraa",
    "nonce": "4GKj2O8gFlzSb2jLI7Q1",
    "picture":
      "https://lh3.googleusercontent.com/a/ACg8ocJYxnjpEnrBL6yLNT5pbkuxZ4_5NpuCRGgioPBCTueP=s96-c",
    "sid": "3gSbm850oGC2uuqGCXWCElW79UnN7TiZ",
    "sub": "google-oauth2|117162805129532208445",
    "updated_at": "2023-12-08T02:01:53.923Z"
  }
},
{
  "unique ID": {
    "access_token":
      "eyJhbGciOiJIaXLCJlbmMiOiJBbmJlU2R0NnliwiaXNzIjoiaHR0cHM6Ly9kZXYtaDZuaTRrbXBzbWdkbWVhrby51cy5hd
      XR0cMC5jb20vln0..gwkJOCL8W-ROXc3m.BR_X8mNKj48MgkiJnLN9I4jb3j6cgCLjsu6TP_q-VD0wuVvFlxcvNIDOMGJ
      LZy9tCxsq-x3wk-_jXoAs-0EryUk4NlxSyb8L_6W_bEdfDQx4UkiGK812uOkOH64OEAgN4ouk-2aOdQX5JI60Nv_yNvr
      V_xxr6K8cOm4tkVPLDqfkopePn80_M5Lo1PwrEuwoZiR0VGx1wwNxFWUQo3UrYdQgMZyDNTz5F5pg4CfOJIEtrD
      DyGXl_Ph_CbHPZYzE4Qs23RZfDgbbZ1KaODGT1Hz6cnwLcYTQFUi4Fq3x4u9glaQaCStQJfhwbyPx5r6xopp-A85II8
      PVJ9WRQTSIw4I9.rC9VQNfB-irQzZpUEO_chQ",
```

```
"expires_at": 1702017835,
"expires_in": 86400,
"id_token":
"eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImNNTlplbU1aMGZkNmhOajV1QjFuZyJ9.eyJuaWNrbmFtZSI6Imx1ZXNlIiwibmFtZSI6Imx1ZXNlIiwiaWF0IjE5b20iLCJwaWN0dXJlIjoiaHR0cHM6Ly9zLmdyYXZhdGFyLmNvbS9hdmF0YXlvdjU3MzYxNzliMDBkMmVhYTIhMmY5NTY4YmUxYWl5OWU_cz00ODAmcj1wZyZkPWWh0dHBzJTNBjTJGJTJGY2RuLmF1dGgwLmNvbSUyRmF2YXRhcnMIMkZsZS5wbmciLCJ1cGRhdGVkX2F0IjoiaWJjYmY0xMi0wN1QwNjo0Mzo1Mi45NzFaliwiZW1haWwiOiJsZWVzZUBraXR0ZW4uY29tliwiZW1haWxfdmVyaWZpZWQiOmZhbHNiLCJpc3MiOiJodHRwczovL2Rldi1oNm5pNGttcHNtZ2RtaGtvLnVzLmF1dGgwLmNvbS8iLCJhdWQiOiIwMXB1VjVET3RhQXdDSGhhZkdOdXpkMndFWHZJcWZ1bilsImIhdCI6MTcwMTkzMTQzNSwiZXhwIjoxNzAxOTY3NDM1LCJzdWliOiJhdXR0MHw2NTcxNjIhOGZkZDE3ODI5MjZTZWlOWUiLCJzaWQiOiI0ZiBydEtPWExoSER2NXNnX2YybXFPQk1hWWV2QUtITCIsIm5vbmNlIjoiaWZpZW50ODRFS0RNY3dyM09LbGVkUHIEVU0ifQ.uddFxmQsEnL3m1VUF3_Y6d2PKWNjfAYcu4kxWfKPHYfKMrc1r33nM-3UowL2Alt9fsCqGycGSPc2RGaajWuHTR7puiN_Ek2QWymz72DKT53QUlpWx4FaY20-C0kHo-_10dbjmVg0efNimm2YLFJW9VjUpyNN5neDAgnELQKrQ-9DjwXBob8OA_9NTzyWCotR3HgyAnG-1MCxgAz1AHfcpXc1oMNGtdPZBiVXD0qtm-ZCfvCViUjl8nZvbBGEUwvnE7QPIEwvWLnIm0roYMSgR1OrA9KWm-PqZvRadg-r_w1hDArasHvYu5SRdQU1JxiE6Rpmea7D5kzUM0U6JUtUw",
"scope": "openid profile email",
"token_type": "Bearer",
"userinfo": {
  "aud": "01puV5DOtaAwCHhafGNuzd2wEXvlqfun",
  "email": "leese@kitten.com",
  "email_verified": false,
  "exp": 1701967435,
  "iat": 1701931435,
  "iss": "https://dev-h6ni4kmpsmgdmhko.us.auth0.com/",
  "name": "leese@kitten.com",
  "nickname": "leese",
  "nonce": "84EKDMcwr3OKledPyDUM",
  "picture":
    "https://s.gravatar.com/avatar/95736179b00d2eaa9a2f9568be1ab99e?s=480&r=pg&d=https%3A%2F%2Fcdn.auth0.com%2Favatars%2Fle.png",
  "sid": "4fPrtK0XLhHDv5sg_f2mqiBmaYevAKeL",
  "sub": "auth0|657169a8fdd17829236e6b9e",
  "updated_at": "2023-12-07T06:43:52.971Z"
}
}
}
```

Create a boat

Allows you to create a new boat

POST /boats

Request

Authorization

Bearer Token

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	The name of the boat	Yes
type	The type of the boat	Yes
length	Length of the boat in feet	Yes
public	Publicity of the boat	Yes

Request Body Example

```
{
  "name": "boat_1",
  "type": "Catamaran",
  "length": "28",
  "public": "true"
}
```

MIME type

application/json

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.
	406 Not Acceptable	Accept header "application/json" is required.

Response Example

Success

```
{
  "id": 4864688382803968,
  "length": "28",
  "loads": [],
  "name": "boat_1",
  "owner": "auth0|65764be8ef593280157c7110",
  "public": "true",
  "self": "https://leese5-jwt.wl.r.appspot.com//boats/4864688382803968",
  "type": "Catamaran"
}
```

Failure

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
{
  "Error": "Not Acceptable"
}
```

Get boats

Allows you to get all boats made with your token

GET /boats

Request

Authorization

Bearer Token

Path Parameters

None

Request Body

None

MIME type

application/json

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	Accept header "application/json" is required.
	403 Forbidden	Authorization is not valid.

Response Example

Success


```
{
  "boats": [
    {
      "id": "4864688382803968",
      "length": "28",
      "loads": [],
      "name": "boat_1",
      "owner": "auth0|65764be8ef593280157c7110",
      "public": "true",
      "self": "https://leese5-jwt.wl.r.appspot.com//boats/4864688382803968",
      "type": "Catamaran"
    }
  ]
}
```

Failure

```
{
  "Error": "Not Acceptable"
}
{
  "error": "Forbidden"
}
```

Get a boat

Allows you to get a boat with boat_id

GET /boats/:boat_id

Request

Authorization

Bearer Token

Path Parameters

Boat_id : ID of the boat

Request Body

None

MIME type

application/json

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	Accept header "application/json" is required.
	403 Forbidden	Authorization is not valid.
	404 Not Found	Boat_id is invalid.

Response Example

Success

```
{
  "id": 4864688382803968,
  "length": "28",
  "name": "boat_1",
  "owner": "auth0|65764be8ef593280157c7110",
  "public": "true",
  "self": "https://leese5-jwt.wl.r.appspot.com//boats/4864688382803968",
  "type": "Catamaran"
}
```

Failure

```
{
  "Error": "Not Acceptable"
}
{
  "error": "Forbidden"
}
{
  "error": "No boat with this boat_id exists"
}
```

Edit a boat

Allows you to edit a boat with all attributes.

PUT /boats/:boat_id

Request

Authorization

Bearer Token

Path Parameters

Boat_id : ID of the boat

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	The name of the boat	Yes
type	The type of the boat	Yes
length	Length of the boat in feet	Yes
public	Publicity of the boat	Yes

Request Body Example

```
{
  "name": "edited_boat_1",
  "type": "Catamaran",
  "length": "28",
  "public": "true"
}
```

MIME type

application/json

Response

Response Body Format

None

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	405 Method Not Allowed	Endpoint is not valid.
	400 Bad Request	At least one of the required attributes is missing.
	403 Forbidden	Bearer token associated with this boat is not valid.
	404 Not Found	Boat_id is invalid.

Response Example

Success

Failure

```
{
  "Error": "Method Not Allowed"
}
{
  "Error": "The request object is missing at least one of the required attributes"
}
{
  "error": "Forbidden"
}
{
  "error": "No boat with this boat_id exists"
```

Edit a boat

Allows you to edit a boat with all attributes.

PATCH /boats/:boat_id

Request

Authorization

Bearer Token

Path Parameters

Boat_id : ID of the boat

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	The name of the boat	No
type	The type of the boat	No
length	Length of the boat in feet	No
public	Publicity of the boat	No

Request Body Example

```
{
  "name": "edited_boat_1",
  "type": "edited_Catamaran"
}
```

MIME type

application/json

Response

Response Body Format

None

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	405 Method Not Allowed	Endpoint is not valid.
	403 Forbidden	Bearer token associated with this boat is not valid.
	404 Not Found	Boat_id is invalid.

Response Example

Success



Failure

```
{
  "Error": "Method Not Allowed"
}
{
  "error": "Forbidden"
}
{
  "error": "No boat with this boat_id exists"
}
```

Delete a boat

Allows you to delete a boat

DELETE /boats/:boat_id

Request

Authorization

Bearer Token

Path Parameters

Boat_id : ID of the boat

Request Body

None

Response

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	404 Not Found	Boat_id is invalid
	403 Forbidden	Bearer token associated with this boat is not valid.

Response Example

Success

Failure

```
{
  "error": "Forbidden"
}
{
  "error": "No boat with this boat_id exists"
}
```


Create a load

Allows you to create a new load

POST /loads

Request

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
item	The item name of the load	Yes
volume	The volume of the load	Yes
creation_date	Creation date of this load	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	If the request is missing any of the 3 required attributes, the boat must not be created, and 400 status code must be returned.
	406 Not Acceptable	Accept header "application/json" is required.

Response Example

Success

```
{
  "carrier": null,
  "creation_date": "10/18/2021",
  "id": 5990588289646592,
  "item": "LEGO Blocks",
  "self": "https://leese5-jwt.wl.r.appspot.com/loads/5990588289646592",
  "volume": 5
}
```

Failure

```
{
  "Error": "The request object is missing at least one of the required attributes"
}
{
  "Error": "Not Acceptable"
}
```

Get loads

Allows you to get all loads

GET /loads

Request

Path Parameters

None

Request Body

None

MIME type

application/json

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	

Response Example

Success

```
{
  "loads": [
    {
      "carrier": {
        "id": 5639601012080640,
        "name": "boat_1",
        "self": "https://leese5-jwt.wl.r.appspot.com/boats/5639601012080640"
      },
    },
  ],
}
```

```
"creation_date": "10/18/2021",
"id": 5066704988143616,
"item": "edited LEGO Blocks",
"self": "https://leese5-jwt.wl.r.appspot.com/loads/5066704988143616",
"volume": 8
},
{
  "carrier": {
    "id": 5639601012080640,
    "name": "boat_1",
    "self": "https://leese5-jwt.wl.r.appspot.com/boats/5639601012080640"
  },
  "creation_date": "10/18/2021",
  "id": 5099842204336128,
  "item": "LEGO Blocks",
  "self": "https://leese5-jwt.wl.r.appspot.com/loads/5099842204336128",
  "volume": 5
},
{
  "carrier": {
    "id": 5705808872472576,
    "name": "Sea Witch",
    "self": "https://leese5-jwt.wl.r.appspot.com/boats/5705808872472576"
  },
  "creation_date": "10/18/2021",
  "id": 5139943911325696,
  "item": "LEGO Blocks",
  "self": "https://leese5-jwt.wl.r.appspot.com/loads/5139943911325696",
  "volume": 5
},
{
  "carrier": {
    "id": 5639601012080640,
    "name": "boat_1",
    "self": "https://leese5-jwt.wl.r.appspot.com/boats/5639601012080640"
  },
  "creation_date": "10/18/2021",
  "id": 5141184150241280,
  "item": "LEGO Blocks",
  "self": "https://leese5-jwt.wl.r.appspot.com/loads/5141184150241280",
  "volume": 5
},
```

```
{
  "carrier": null,
  "creation_date": "10/18/2021",
  "id": 5143677177430016,
  "item": "LEGO Blocks",
  "self": "https://leese5-jwt.wl.r.appspot.com/loads/5143677177430016",
  "volume": 5
}
],
"next":
"https://leese5-jwt.wl.r.appspot.com/loads?cursor=CigSImoMbX5sZWVzZTUtd0chLEgVsb2FkcxiAgIDY2sSRCQwYACAA"
}
```

Get a load

Allows you to get a load with load_id

GET /loads/:load_id

Request

Path Parameters

Load_id : ID of the load

Request Body

None

MIME type

application/json

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	Accept header "application/json" is required.
	404 Not Found	load_id is invalid.

Response Example

Success

```
{  
  "carrier": null,  
  "creation_date": "10/18/2021",  
  "id": 5990588289646592,
```

```
"item": "LEGO Blocks",  
"self": "https://leese5-jwt.wl.r.appspot.com/loads/5990588289646592",  
"volume": 5  
}
```

Failure

```
{  
  "Error": "Not Acceptable"  
}  
{  
  "error": "No load with this load_id exists"  
}
```

Put a Load on a Boat

Allows you to put a load on a boat

PUT /boats/:boat_id/loads/:load_id

Request

Path Parameters

Boat_id : ID of the boat

Load_id : ID of the load

Request Body

None

MIME type

application/json

Response

Response Body Format

None

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	405 Method Not Allowed	Endpoint is not valid.
	404 Not Found	Boat_id is invalid. Load_id is invalid.
	403 Forbidden	The load is already loaded on another boat.

Response Example

Success

Failure

```
{
  "Error": "Method Not Allowed"
}
{
  "Error": "The specified boat and/or load does not exist"
}
{
  "Error": "The load is already loaded on another boat"
}
```

Edit a load

Allows you to edit a load

PATCH /loads/:load_id

Request

Path Parameters

load_id : ID of the load

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
item	The item name of the load	No
volume	The volume of the load	No
creation_date	Creation_date of this load	No

Request Body Example

```
{  
  "volume": 8,  
  "item": "edited LEGO Blocks"  
}
```

MIME type

application/json

Response

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	405 Method Not Allowed	Endpoint is not valid.
	404 Not Found	load_id is invalid.

Response Example

Success

Failure

```
{
  "Error": "Method Not Allowed"
}
{
  "error": "No load with this load_id exists"
}
```

Unload a Load from a Boat

Allows you to unload a load from a boat

PUT /boats/:boat_id/loads/:load_id

Request

Path Parameters

Boat_id : ID of the boat

Load_id : ID of the load

Request Body

None

MIME type

application/json

Response

Response Body Format

None

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	405 Method Not Allowed	Endpoint is not valid.
	404 Not Found	Boat_id is invalid. Load_id is invalid.

Response Example

Success



Failure

```
{  
  "Error": "Method Not Allowed"  
}  
  
{  
  "Error": "No boat with this boat_id is loaded with the load with this load_id"  
}
```

Delete a load

Allows you to delete a load

DELETE /loads/:load_id

Request

Path Parameters

load_id : ID of the load

Request Body

None

Response

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	404 Not Found	load_id is invalid

Response Example

Success

Failure

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