boat-api

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CS496 - Winter 2018

Google App Engine

```
dev_appserver.py app.yaml
```

Boat Example JSON

Name	Type	Description
url	string	**Required.** URL with auto-generated unique id
id	string	**Required.** Auto-generated unique id
name	string	**Required.** Name of boat
type	string	**Required.** Type of boat
length	int	**Required.** Length of boat in feet
at_sea	boolean	**Required.** Default is `false`

```json
{
  "url": "https://totemic-splicer-145122.appspot.com/boats/kj0987a234bcdasdf12",
  "id":"kj0987a234bcdasdf12",
  "name": "Sea Witch",
  "type":"Catamaran",
  "length":28,
  "at_sea":false
}
```

Slip Example JSON

Name	Type	Description
url	string	**Required.** URL with auto-generated unique id
id	string	**Required.** Auto-generated unique id
number	int	**Required.** Slip number; may not be unique
current_boat	string	ID of the current boat, null if empty
arrival_date	string	Date current boat arrived in "MM/DD/YYYY", null if empty
departure_history	[histJSON]	list of previous boats and departure dates

A `histJSON` is a json object that contains the `departure_date` and the ID of the `departed_boat`.

```
{
  "url": "https://totemic-splicer-145122.appspot.com/slips/123abc",
  "id":"123abc",
  "number": 5,
  "current_boat":"abc555",
  "arrival_date":"1/1/2015",
  "departure_history":
    [ { "departure_date":"11/4/2014", "departed_boat":"123aaa" } ]
}
```

View a list of boats

Returns an array of boat information in JSON, including urls to each boat.

```
GET /boats
```

Response

```
Status: 200 OK
```

```
[
  {
    "url": "https://totemic-splicer-145122.appspot.com/boats/cdasdf12kj0987a23",
    "id": "cdasdf12kj0987a23",
    "name": "S.S. Awesome",
    "type": "power boat",
    "length": 18,
    "at_sea": false
  }
]
```

View a single boat

Returns information of a boat with `{boat_id}` in JSON, including the url to the boat.

```
GET /boats/{boat_id}
```

Response

```
Status: 200 OK

{
  "url": "https://totemic-splicer-145122.appspot.com/boats/kj0987a234bcdasdf15",
  "id": "kj0987a234bcdasdf15",
  "name": "S.S. Awesome",
  "type": "power boat",
  "length": 18,
  "at_sea": false
}
```

View a list of slips

Returns an array of slip information in JSON, including urls to each slp.

```
GET /slips
```

Response

```
Status: 200 OK

[
  {
    "url": "https://totemic-splicer-145122.appspot.com/boats/cdasdf12kj0987a23",
    "id":"cdasdf12kj0987a23",
    "number": 5,
    "current_boat":"kj0987a234bcdasdf1234hl",
    "arrival_date":"1/1/2015",
    "departure_history":
      [ {
        "departure_date":"11/4/2014",
        "departed_boat":"123aaa"
        }, ...
      ]
  }
]
```

View a single slip

Returns information of a slip with `{slip_id}` in JSON, including the url to the slip.

```
GET /slips/{slip_id}
```

Response

```
Status: 200 OK

{
  "url": "https://totemic-splicer-145122.appspot.com/slips/123abc",
  "id":"123abc",
  "number": 5,
  "current_boat":"abc555",
  "current_boat_url":"https://totemic-splicer-145122.appspot.com/boats/abc555",
  "arrival_date":"1/1/2015",
  "departure_history":
    [ {
        "departure_date":"11/4/2014",
        "departed_boat":"123aaa"
```

```
        }, ...
    ]
}
```

Create a new boat

```
POST /boats
```

Input

Name	Type	Description
name	string	**Required.** Name of boat
type	string	**Required.** Type of boat
length	int	**Required.** Length of boat in feet

Note: A new boat defaults to `true` for `at sea` , and the boat `id` is auto-generated on the server.

Request Body

```
{
  "name": "Escape",
  "type": "yacht",
  "length": 390
}
```

Response

```
Status: 201 Created

{
  "url": "https://totemic-splicer-145122.appspot.com/boats/dasdf1234hl",
  "id": "dasdf1234hl",
  "name": "Escape",
  "type": "yacht",
```

```
    "length": 390,
    "at sea": true

}
```

Create a new slip

```
POST /slips
```

Input

Name	Type	Description
number	int	**Required.** Slip number; may not be unique

Note 1: A new slip defaults to being empty. That is, `current_boat` and `arrival_date` default to `null`, and the `departure_history` is an empty array.

Note 2: The slip `id` is auto-generated on the server.

Request Body

```
{
  "number": 125
}
```

Response

```
Status: 201 Created

{
  "url": "https://totemic-splicer-145122.appspot.com/slips/456abc",
  "id":"456abc",
  "number": 125,
  "current_boat":"kj0987a234bcdasdf15",
  "arrival_date":"1/1/2015",
```

```
    "departure_history":
      [ {
        "departure_date":"11/4/2014",
        "departed_boat":"87a234bcdailkjsdf15"
        }, ...
      ]
  }
```

Edit a boat

Edit a slip

Delete a boat

Delete a slip

Set a boat to sea

Set a boat to a slip

E.C.