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CS 496

REST Planning and Implementation: Boat operations

https://restfulmarina.appspot.com

Below are all the URL’s and what verbs chosen for said URLs. Also, added a few //notes for what each URL function is doing. Added supply tests to demonstrate the above functionality works. Source code is added in given zip folder. Sources link at the bottom.

**Boat slip information:**

**GET** /slip/{{slip\_id}}/boat

View current boat in slip

**DELETE** /slip/{{slip\_id}}/boat

Remove Boat from Slip and set boat

**PATCH** /slip/{{slip\_id}}/boat

Associates boat with a slip

Must send Boat id and arrival date and slip must not be currently occupied Example Data with boat ID

{“boat\_id”: “boatid”, “arrival\_date”: “1/1/2000”}

**Lists all URLs and what verbs work:**

**POST**

//Adds Boat to database

{“name”:”boat name”, “type”:“boat type”, “length”: 15}

**DELETE** /boat/{{id}}

Deletes current boat from database

**PATCH** /boat/{{id}}

Modify Boat info: You can update all fields OR single field with one input {“name”:”boat name”, “type”:“boat type”, “length”: 15}

{“type”: “Dinghy”}

{“at\_sea”: false}

**PUT** /boat/{{id}}

Replace boat info: You can update all fields with boat name (required). All other boats set to null.

Examples of Data to be provided:

{“name”:”boat name”, “type”:“boat type”, “length”: 15}

{“name”:”new boat name”, “type”: “Dinghy”}

{“name”:”black pearl”, “at\_sea”: false}

**GET** /boat/{{id}}

View Single Boat using boat id

**GET** /boats

View boat list

**Slip Functions:**

**POST** /slip

Adds Slip to database

Added slip will have current\_boat and arrival\_date set to null

Example of Data:

{“number”: ship number}

**DELETE** /slip/{{id}}

Deletes Slip with slip id from database

**PATCH** /slip/{{id}}

Modify Slip info

You can modify all fields including number, current boat and arrival date (see below).

Examples of Data:

{“number”: 12, “current\_boat”:“boat id”, “arrival\_date”: “12/25/1969”}

{“number”: 27, “current\_boat”: “boat\_new\_id”}

{“arrival\_date”: “12/2/85”}

**PUT** /slip/{{id}}

Replace slip info

You can modify all fields including number, current boat and arrival date

Slip must include number

Examples of Data:

{“number”: 12, “current\_boat”:“boat id”, “arrival\_date”: “12/25/1969”}

{“number”: 27, “current\_boat”: “boat\_new\_id”}

**GET** /slip/{{slip\_id}}/

View Slip Information

Sources:

Given GAE data-store video

https://docs.djangoproject.com/en/1.8/howto/deployment/wsgi/

https://stackoverflow.com/questions/19457066/php-rest-versus-functions

https://stackoverflow.com/questions/923566/jax-rs-is-perfect-for-implementing-rest-what-do-you-use-to-call-rest-services-i