REST Planning And Implementation

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Root: https://fine-loader-172219.appspot.com/

URLs:

/boat

POST

- Creates a boat with the attributes that are submitted in the body of the request
- Does allow request to be submitted without a body. Boat object will be created with name, craft_type and length set to null.

```
Body
{
          "name":"{boatName}",
          "craft_type":"{craft_type}",
          "Length":{length}
}
```

Response

- Response includes the boat created and a url to itself labeled "self".
- Status 200

GET

• Returns a list of all boats.

Response

- JSON list of all boats
- Status 200

/boat/{boat_id}

GET

• Returns a single boat matching the boat_id.

Response

Status 200

PATCH

- Modifies attributes of a boat.
- Will not update "at_sea" or "id_num" attributes.
- Does not require all fields to be modified. It will modify only the fields that were submitted in the body of the request.

```
Body

{
          "name":"{name}",
          "type":"{craft_type}",
          "length":{length}
}
```

Response

- Returns the modified boat object.
- Status 200

DELETE

- Deletes a boat matching the {boat_id}
- Will empty a slip if the boat is docked.

Response

Status 200

/Slip

POST

- Creates a new slip with the attributes submitted in the body.
- Does not allow the request to be completed without a body.

Response

- Responds with newly created slip details, including a link to itself labeled as "self"
- Status 200
- Status 400 if submitted without a body
- Status 403 if submitted with an invalid body

GET

• Gets a list of all slips

Response

Status 200

/Slip/{slip_id}

GET

• Gets the slip matching the slip_id

Response

Status 200

PATCH

 Updates the slip number to either the number provided in the body of the request or if none is provided, the API will generate a slip number.

Response

- Responds with the slip containing the updated slip details.
- Status 200
- Status 400 if the number submitted is not an integer.
- Status 403 if the number submitted is already in use.

PUT

- Replaces a boat in a slip with another boat.
- Sets previous boat's "at sea" attribute to "True"
- Sets new boat's "at_sea" attribute to "False"

Response

- Responds with an array containing the slip and its updated details in position 0, and the new boat with its updated details in position 1.
- Status 200
- Status 403 if current slip is not already occupied.
- Status 400 if submitted without required request body.

DELETE

Deletes the slip matching the slip_id.

• Sets a boat's "at_sea" to "True" if docked at the slip.

Response

Status 200

/slip/boat/{slip_id}

GET

Gets a boat at a slip

Response

- Responds with the boat details for a boat at the slip matching the slip_id
- Status 200

/slip/boat/details/{slip_id}

PATCH

- Adds or removes a boat at a slip matching the slip_id and selts the arrival_date.
- Sets "at_sea" to false on docked boat.
- NOTE: Request can be sent with an empty body. This will remove a boat from an occupied slip.

Response

- Responds with an array containing the slip and its updated details in position 0, and the boat with its updated details in position 1.
- Status 200
- Status 403 if slip is already occupied.
- Status 403 if boat is already docked.
- Status 400 if slip is empty.