**Boats API Documentation**

**Base URL**

The base URL for this API is **https://assignment4-385523.uw.r.appspot.com/boats**

**Endpoints**

**GET /:id**

Retrieves information about a specific boat in either JSON or HTML format based on the Accept header sent by the client.

**Parameters:**

* id: The unique identifier of the boat (required)

**Response:**

* 200 OK: Returns a JSON object or an HTML ul containing details about the boat, including its id, name, type, length, and a self-referential URL.

**POST /**

Creates a new boat.

Updating the value of id is not allowed.

Only accept JSON

**Request Body:**

* name: The name of the boat. It should only contain alphanumeric characters and spaces, and its maximum length is 30 characters (required). The name has to be unique
* type: The type of the boat. It should only contain alphanumeric characters and spaces, and its maximum length is 30 characters (required).
* length: The length of the boat. its maximum value is 1000 (required).

**Response:**

* 201 Created: Returns a JSON object containing details about the created boat, including its id, name, type, length, and a self-referential URL.

**PUT /:id**

Completely updates the details of a specific boat. **Any attributes not provided in the request will be set to NULL.**

Updating the value of id is not allowed.

Only accept JSON

**Parameters:**

* id: The unique identifier of the boat (required)

**Request Body:**

* name: The new name of the boat. It should only contain alphanumeric characters and spaces, and its maximum length is 30 characters. The name has to be unique
* type: The new type of the boat. It should only contain alphanumeric characters and spaces, and its maximum length is 30 characters.
* length: its maximum value is 1000 (optional).

**Response:**

* 303 See Other: The updated boat's URL is included in the Location header.

**PATCH /:id**

Partially updates the details of a specific boat. Only provided attributes will be updated.

Updating the value of id is not allowed.

**Parameters:**

* id: The unique identifier of the boat (required)

**Request Body:**

* name: The new name of the boat. It should only contain alphanumeric characters and spaces, and its maximum length is 30 characters. The name has to be unique
* type: The new type of the boat. It should only contain alphanumeric characters and spaces, and its maximum length is 30 characters, The name has to be unique
* length: The new length of the boat. It should be a positive number and its maximum value is 1000.

**Response:**

* 200 OK: Returns a JSON object containing details about the updated boat, including its id, name, type, length, and a self-referential URL.

**DELETE /:boat\_id**

Deletes a specific boat.

**Parameters:**

* boat\_id: The unique identifier of the boat

**Response:**

* 204 No Content: The boat was successfully deleted
* 404 Not Found: No boat with the provided boat\_id exists

Status Codes

The API uses the following status codes:

2xx Success

200 OK: The request was successful

201 Created: The request was successful and a resource was created

204 No Content: The request was successful but there is no representation to return (i.e. the response is empty)

3xx Redirection

303 See Other: A GET or HEAD request has been applied to a resource, a response can be found in a different location

4xx Client errors

400 Bad Request: The request could not be understood or was missing required parameters

403 Forbidden: Violations of the uniqueness constraint

404 Not Found: Resource could not be found or was deleted

405 Method