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CS-496

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REST Planning and Implementation

Base URL:

https://rest-api-implementation-192321.appspot.com/

appends to URL:

* POST /boats
  + Expected Results: Creates a new boat object and returns the information for that boat object.
  + Body Format: {“name”: “string”, “length”: int, “type”: “string”}
  + Error Handling: Will return an error 400 if the format of the body is incorrect.
* GET /boats
  + Expected Results: Returns a list of all the boat objects.
* GET /boats/{boat\_id}
  + Expected Results: Returns the boat object information with the provided id.
  + Error Handling: Will return an error 401 if the {boat\_id} does not match any boat objects.
* DELETE /boats/{boat\_id}
  + Expected Results:
    - Boat will get deleted.
    - Slip will be emptied if applicable.
  + Error Handling: Will return an error 401 if the {boat\_id} does not match any boat objects.
* PATCH /boats/{boat\_id}
  + Expected Results: Updates a single attribute of the boat with the {boat\_id}.
  + Body Format: {“name”: “string”} or {“length”: int} or {“type”: “string”}
  + Error Handling:
    - Will return an error 400 if the format of the body is incorrect.
    - Will return an error 401 if the {boat\_id} does not match any boat objects.
* PUT /boats/{boat\_id}
  + Expected Results: Updates all three required attributes of the boat with the {boat\_id}.
  + Body Format: {“name”: “string”, “length”: int, “type”: “string”}
  + Error Handling:
    - Will return an error 400 if the format of the body is incorrect.
    - Will return an error 401 if the {boat\_id} does not match any boat objects.
* POST /slips
  + Expected Results: Creates a new slip object and returns the information for that slip object.
  + Body Format: {“number”: int}
  + Error Handling:
    - Will return an error 400 if the format of the body is incorrect.
    - Will return an error 403 if the selected slip number is already used.
* GET /slips
  + Expected Results: Returns a list of all the slip objects.
* GET /slips/{slip\_id}
  + Expected Results: Returns the slip with the provided id.
  + Error Handling: Will return an error 401 if the {slip \_id} does not match any slip objects.
* DELETE /slips/{slip\_id}
  + Expected Results:
    - Deletes the slip.
    - Removes the occupying boat to sea if applicable.
  + Error Handling: Will return an error 401 if the {slip \_id} does not match any slip objects.
* PATCH /slips/{slip\_id}
  + Expected Results: Updates a single attribute of the slip with the {slip\_id}.
  + Body Format: {“number”: int}
  + Error Handling:
    - Will return an error 400 if the format of the body is incorrect.
    - Will return an error 403 if the selected slip number is already used.
    - Will return an error 401 if the {slip \_id} does not match any slip objects.
* GET /slips/{slip\_id}/boat
  + Expected Results: Returns the boat in the slip with the {slip\_id}.
  + Error Handling:
    - Will state that there is no ship in the slip if the selected slip is not occupied.
    - Will return an error 401 if the {slip \_id} does not match any slip objects.
* PUT /slips/{slip\_id}/boat
  + Expected Results: Puts the boat with the {boat\_id} in the slip with the {slip \_id}.
  + Body Format: {“current\_boat”: “{boat\_id}”, “arrival\_date”: “YYYY-MM-DD”}
  + Error Handling:
    - Will return an error 400 if the format of the body is incorrect.
    - Will return an error 401 if the {boat \_id} does not match any boat objects.
    - Will return an error 401 if the {slip \_id} does not match any slip objects.
    - Will return an error 403 if the {slip \_id} is already occupied by another boat.
    - Will return an error 403 if the {boat \_id} is already in a slip.
* DELETE /slips/{slip\_id}/boat
  + Expected Results: Sends the boat object occupying the slip with the {slip\_id} out to sea.
  + Error Handling:
    - Will return an error 401 if the {slip \_id} does not match any slip objects.
    - Will return an error 403 if the {slip \_id} is not occupied.