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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

- o Expected Results: Creates a new slip object and returns the information for that slip object.
- o Body Format: {"number": int}
- o 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
  - o Expected Results: Returns a list of all the slip objects.
- GET /slips/{slip_id}
  - o Expected Results: Returns the slip with the provided id.
  - o Error Handling: Will return an error 401 if the {slip _id} does not match any slip objects.
- DELETE /slips/{slip_id}
  - o Expected Results:
    - ▪ Deletes the slip.
    - ▪ Removes the occupying boat to sea if applicable.
  - o Error Handling: Will return an error 401 if the {slip _id} does not match any slip objects.
- PATCH /slips/{slip_id}
  - o Expected Results: Updates a single attribute of the slip with the {slip_id}.
  - o Body Format: {"number": int}
  - o 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
  - o Expected Results: Returns the boat in the slip with the {slip_id}.
  - o 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
  - o Expected Results: Puts the boat with the {boat_id} in the slip with the {slip _id}.
  - o Body Format: {"current_boat": "{boat_id}", "arrival_date": "YYYY-MM-DD"}
  - o 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
  - o Expected Results: Sends the boat object occupying the slip with the {slip_id} out to sea.
  - o 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.