Name: Molly Arwood
CS_496_MobileCloud
Rest Planning and Implementation

POST /boats

-**Data provided:** All following attributes must be provided.

{ "name": str, "boat_type": str, "length": int }

-**Action:** A new boat instance is added to the database with the provided credentials. The boat's "at_sea" attribute is set to True, and the boat's id is auto-generated by the database.

GET /boats

-**Action:** Returns an array that contains all boat objects currently in the database.

GET /boats/{boat_id}

-**Action:** Returns the specified boat object (give the boat's id in the URL).

PATCH /boats/{boat_id}

-**Data provided:** The following are optional. A combination of these can be provided.

{"name": str, "boat_type": str, "length": int}

-**Action:** The attributes provided will replace the ones currently listed in the database under the URL-specified boat. All attributes not listed in the body of the request will remain unchanged in the database.

PUT /boats/{boat_id}

-**Data provided**:  All following attributes must be provided.

{"name": str, "boat_type": str, "length": int, "at_sea": bool}

-**Action**: The attributes provided will replace the ones currently listed in the database under the URL-specified boat. If "at_sea" has been changed to False, the slip in which the boat is now stationed will have its "current_boat" and "arrival_date" fields updated. If "at_sea" has been changed to True, the slip in which the boat was stationed will have its "current_boat" and "arrival_date" fields reset. Returns the updated boat object.

DELETE /boats/{boat_id}

-**Action**: The URL-specified boat will be removed from the database. If the boat was occupying a slip, the slip's "current_boat" and "arrival_date" fields will be reset to indicate that it is empty.

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POST /slips

-**Data provided**: The following attribute must be provided.

{"number": str}

-**Action**: A new slip instance is added to the database with the provided credential. The slip's "current_boat" and "arrival_date" attributes are set to an empty string, and the slip's id is auto-generated by the database.

GET /slips

-**Action:** Returns an array that contains all slip objects currently in the database.

GET /slips/{slip_id}

-**Action**: Returns the specified slip object (give the slip's id in the URL).

PATCH /slips/{slip_id}

-**Data provided**: Only the number attribute is allowed to be modified by the Patch request.

{"number": str}

-**Action**: The attribute provided will replace the one currently listed in the database under the URL-specified slip. All attributes not listed in the body of the request will remain unchanged in the database.

PUT /slips/{slip_id}

-**Data provided**: All following attributes must be provided.

{"number": str, "current_boat": str, "arrival_date": str}

-**Action**: The attributes provided will replace the ones currently listed in the database under the URL-specified slip. Returns the updated slip object.

DELETE /slips/{slip_id}

-**Action**:  The URL-specified slip will be removed from the database. If the slip was occupied by a boat, the boat's "at_sea" field will be set to True.

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GET /slips/{slip_id}/boat

>-**Action**: Returns the boat object listed in the URL-specified slip's "current_boat" field.

PUT /slips/{slip_id]/boat

>-**Data provided**: All following attributes must be provided.

>>{"boat": str, "arrival_date": str}

>-**Action**: Places the specified boat's id into the URL-specified slip's "current_boat" field and places the specified arrival_date into the matching slip's field. Updates the specified boat's "at_sea" field to be False. (Sets a boat in a slip). Returns the updated slip object.

DELETE /slips/{slip_id}/boat

>-**Action**: Removes the boat currently occupying the URL-specified slip. Sets the boat's "at_sea" field to true. Resets the slip's "current_boat" and "arrival_date" fields. Returns updated slip.