David White   Simple Marina API
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CS493_400_F2018
Assignment 3 - REST API

Ship

Attributes:
```
{
        "id":  "5633226290757632"          #string(Auto-generated)
        "ship_name": "Edmund Fitzgerald"   #string
        "ship_type": "Freight Liner"       #string
        "ship_length": 729                 #integer
}
```

Add Ship- newly created ships start "ship_location" is "at sea"
POST /ships
Body example:
```
{
        "ship_name": "Edmund Fitzgerald",  #string
        "ship_type":  "Freight Liner",     #string
        "ship_length":  779                #Integer
}
```

Response:
```
{
        "id": "5633226290757632"
}
```

Status: 201   -success

Delete Ship- deletes a ship, and empties the slip the ship was previously in, if it was in a slip
DELETE /ships/{ship_id}

Response:
Status: 200

Modify Ship- modify any property of the ship
PUT /ships/{ship_id}
Body:
```
{
        "ship_name": "Ghost Ship",
        "ship_type": "Passenger Carrier",
        "ship_length": 666
}
```

Response:
{ id: {ship_id} }
Status: 200   -success

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View Ship- view an individual ship
GET /ships/{ship_id}
Response:
```
[
        {
                "ship_name": "Edmund Fitzgerald",
                "ship_length": 729,
                "ship_type": "Freight Liner",
                "id": "5641497726681088"
        }
]
```
Status: 200   -success

Ships

View Ships- view all ships
GET /ships
Response:
```
[
        {
                "ship_type": "Freight Liner",
                "ship_name": "Edmund Fitzgerald",
                "ship_length": 729,
                "id": "5641497726681088"
        },
        {
                "ship_name": "Ghost Ship",
                "ship_length": 666,
                "ship_type": "Cruise Ship",
                "id": "5712088936742912"
        },
        {
                "ship_length": 300,
                "ship_type": "Tall Ship",
                "ship_name": "Black Pearl",
                "id": "5715161717407744"
        }
]
```
Status: 200   -success

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Slip

Attributes:
```
{
        "slip_number": 5,
        "slip_boat_arrival_date": "10-19-18",
        "slip_current_boat": "5713309579870208",
        "id": "5138380291571712",
        "ship_url": "http://marina-101318.appspot.com/ships/
5713309579870208"
}
```

Add Slip- Newly created slips "slip_current_boat" and "slip_boat_arrival_date" is null
POST /slips
Body example:
```
        {
                "slip_number": 1,                               #integer
        }
```
Response:
    { "id": 5363765209989120 }
Status: 201   -success

Delete Slip: Deletes Slip
DELETE /slips/{slip_id}

Status: 200   -success

Modify Slip: Allow to modify any property of the slip
PUT /slips/{slip_id}
Body example:
```
        {
                "slip_number": 22,
                "slip_current_boat": {{ship_in_slip}},
                "slip_boat_arrival_date": "10-22-18"
        }
```
Response:
    {id: 5363765209989120}
Status: 200   -success

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View Slip: View any individual slip
GET /slips/{slip_id}
Response:
```
{
        "slip_current_boat": 5709624632147968,
        "slip_number": 22,
        "slip_boat_arrival_date": "10-22-18",
        "id": "5363765209989120",
        "ship_url": "http://marina-101318.appspot.com/ships/
5709624632147968"
}
```
Status: 200   -success

Slips

View Slips:
GET /slips
Response:
```
{
        "slip_number": 5,
        "slip_boat_arrival_date": "10-19-18",
        "slip_current_boat": "5713309579870208",
        "id": "5138380291571712",
        "ship_url": "http://marina-101318.appspot.com/ships/
5713309579870208"
},
{
        "slip_current_boat": "5679790782676992",
        "slip_number": 1,
        "slip_boat_arrival_date": "10-19-18",
        "id": "5633226290757632",
        "ship_url": "http://marina-101318.appspot.com/ships/
5679790782676992"
},
{
        "slip_number": 2,
        "slip_boat_arrival_date": null,
        "slip_current_boat": null,
        "id": "5643172898144256"
}
```
Status: 200   -success

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Slip and Ship

Add ship to slip:
PUT /slips/{slip_id}/ships/{ship_id}

Response:
{id: 5672749318012928}

Status: 200   -success
403 Forbidden -if slip is occupied

Remove ship from slip:
DELETE /slips/{slip_id}/ships/{ship_id}

View ship in slip:
GET /slips/{slip_id}/ships/

Response:

{
        "ship_name": "Edmund Fitzgerald",
        "ship_length": 729,
        "ship_type": "freight liner",
        "id": "5713309579870208"
}
Status: 200   -success