Project 2

1. Overview

The purpose of this API is to serve as an interface for the database for a single vets office. In this, customers will not have direct access, and all input and output is all handled by employees at that vets office. In reference to owners, we should be able to pull their information, get a list of their outstanding visit payments, update their home address in case they move, delete old phone numbers, and add new owners when they come to the office for the first time. In reference to employees, we should be able to pull their information, update their salary (either up or down), add new employees when they are hired, and delete employees when they are no longer needed in the system. For pets, we want to be able to get their information, get a list of their owners, and add new owners to that pet.

2. Route Paths

Path Name: Get Owner

Path: http://blue.cs.sonoma.edu:8043/api/v1/owner/:id

Description: This route gets the information of an owner, given their id

Example Call:

curl -X GET http://blue.cs.sonoma.edu:8043/api/v1/owner/1

```
[[bdale@blue ~]$ curl -X GET http://blue.cs.sonoma.edu:8043/api/v1/owner/1
[
        "id": 1,
        "dob": "1946-02-14T08:00:00.000Z",
        "f_name": "Selena",
        "l_name": "Gomez",
        "street": "1234 Example St.",
        "city": "Los Angeles",
        "state": "CA",
        "zip": "94928"
    }
][bdale@blue ~]$
```

Path Name: Get Owner Money Due

Path: http://blue.cs.sonoma.edu:8043/api/v1/owner/moneyDue/:id

Description: Gets a list of all unpaid visits, with the total cost of each unpaid visit for all of their pets

Example Call:

curl -X GET http://blue.cs.sonoma.edu:8043/api/v1/owner/moneyDue/1

```
[bdale@blue ~]$ curl -X GET http://blue.cs.sonoma.edu:8043/api/v1/owner/moneyDue/1
[
    "Owner ID": 1,
    "Pet ID": 1,
    "date": "2000-12-16T08:00:00.000Z",
    "Total Cost": 250
},
{
    "Owner ID": 1,
    "Pet ID": 15,
    "date": "2015-08-10T07:00:00.000Z",
    "Total Cost": 230
}
][bdale@blue ~]$
```

Path Name: Update Owner Address

Path: http://blue.cs.sonoma.edu:8043/api/v1/owner/:id

Description: Updates the address of a user, given their ID and a new address (street, city, state,

and zip)

Example Call:

curl -X PUT -H 'Content-type: application/json' -d '{"street":"321 New St","city":"newcity","state":"CA","zip":"12345"}'

http://blue.cs.sonoma.edu:8043/api/v1/owner/1

[bdale@blue ~]\$ curl -X PUT -H 'Content-type: application/json' -d '{"street":"321 New St","city":"newcity","state":"CA","zip":"12345"}' http://blue.cs.sonoma.edu:8043/api/v1/owrer/I OK[bdale@blue ~]\$

Database output, after above call

Path Name: Add Owner

Path: http://blue.cs.sonoma.edu:8043/api/v1/owner **Description:** Adds a new owner to the database

Example Call:

curl -X POST -H 'Content-type: application/json' -d

'{"dob":"2020-01-01","f_name":"New","l_name":"Owner","street":"10 Main St","city":"New

City", "state": "CA", "zip": "12345" \right\}' http://blue.cs.sonoma.edu: 8043/api/v1/owner

[Ebdale@blue -]\$ curl -X POST -H 'Content-type: application/json' -d '{"dob":"2020-01-01","f_name":"New","l_name":"Owner","street":"10 Main St","city":"New City","state":"CA","zip":"12345"}' http://blue.cs.sonoma.edu:8043/api/v1/owner
Created[bdale@blue -]\$ |

Database output, after above call

Path Name: Delete Owner Phone Number

Path: http://blue.cs.sonoma.edu:8043/api/v1/owner/:id/num/:ph num

Description: Adds a new phone number to a owner (duplicate owner phone numbers are

blocked)

Example Call:

curl -X DELETE http://blue.cs.sonoma.edu:8043/api/v1/owner/1/num/1231231234

```
[Not Found[bdale@blue ~]$ curl -X DELETE http://blue.cs.sonoma.edu:8043/api/v1/owner/1/num/1231231234
{
    "fieldCount": 0,
    "affectedRows": 1,
    "insertId": 0,
    "serverStatus": 2,
    "warningCount": 0,
    "message": "",
    "protocol41": true,
    "changedRows": 0
}[bdale@blue ~]$
```

Before/After Call

Path Name: Get Employee

Path: http://blue.cs.sonoma.edu:8043/api/v1/employee/:id

Description: Gets the information of an employee, given their ID

Example Call:

curl -X GET http://blue.cs.sonoma.edu:8043/api/v1/employee/1

```
[[bdale@blue ~]$ curl -X GET http://blue.cs.sonoma.edu:8043/api/v1/employee/1
[
        "id": 1,
        "ssn": "663403032",
        "dob": "1984-06-13T07:00:00.000Z",
        "f_name": "Ashley",
        "l_name": "Katchadorian",
        "start_date": "2016-06-28T07:00:00.000Z",
        "salary": 113863,
        "position": "Vet Assistant"
    }
][bdale@blue ~]$
```

Path Name: Update Employee Salary

Path: http://blue.cs.sonoma.edu:8043/api/v1/employee/:id

Description: Updates a employees salary to the new specified amount

Example Call:

```
[[bdale@blue ~]$ curl -X PUT -H 'Content-type: application/json' -d '{"amt":"100.00"}' http://blue.cs.sonoma.edu:8043/api/v1/employee/1
OK[bdale@blue ~]$ |
```

Before/After Call

Path Name: Add Employee

Path: http://blue.cs.sonoma.edu:8043/api/v1/employee

Description: Adds a new employee to the database, WITHOUT specifying id of new employee

Example Call:

```
curl -X POST -H 'Content-type: application/json' -d '{"ssn":"111223333","dob":"2020-01-01","f_name":"New","l_name":"employee","start_date":"2 020-01-02","salary":"0.01","position":"New Position"}'
```

http://blue.cs.sonoma.edu:8043/api/v1/employee

[Ddale@Nlw =]5 curl -X POST -H "Content-type: application/json" -d "{"ssn":"11223333","dob":"2020-01-01","f_name":"New","l_name":"employee","start_date":"2020-01-02","salary":"0.01","position":"New Position"}' http://blue.cs.sonoma.ed 8043/api//1/cmployee
Created/Ddole@Nlue -]5

After The Above Call

Path Name: Delete Employee

Path: http://blue.cs.sonoma.edu:8043/api/v1/employee/:id

Description: Deletes an employee from the database, given their ID

Example Call:

curl -X DELETE http://blue.cs.sonoma.edu:8043/api/v1/employee/11

```
[[bdale@blue ~]$ curl -X DELETE http://blue.cs.sonoma.edu:8043/api/v1/employee/11
{
    "fieldCount": 0,
    "affectedRows": 1,
    "insertId": 0,
    "serverStatus": 2,
    "warningCount": 0,
    "message": "",
    "protocol41": true,
    "changedRows": 0
}[bdale@blue ~]$
```

After the above call

```
[MariaDB [bdale_cs355sp23]> SELECT * FROM Employee WHERE id = 11;
Empty set (0.000 sec)
```

Path Name: Get Pet

Path: http://blue.cs.sonoma.edu:8043/api/v1/pet/:id

Description: Gets the information of a pet, given their ID

Example Call:

curl -X GET http://blue.cs.sonoma.edu:8043/api/v1/pet/6

Path Name: Get Pet's Owners

Path: http://blue.cs.sonoma.edu:8043/api/v1/pet/owners/:id

Description: Gets the information for all owners that own the pet with the specified ID

Example Call:

curl -X GET http://blue.cs.sonoma.edu:8043/api/v1/pet/owners/1

Path Name: Add Pet's Owner

Path: http://blue.cs.sonoma.edu:8043/api/v1/pet/:petID/owner/:ownerID **Description:** Makes the owner with ownerID a owner of the pet with petID

Example Call:

curl -X POST http://blue.cs.sonoma.edu:8043/api/v1/pet/3/owner/1

```
[[bdale@blue ~]$ curl -X POST http://blue.cs.sonoma.edu:8043/api/v1/pet/3/owner/1 Created[bdale@blue ~]$ ■
```

Before/After the above call