Requesting Data from the Microservice:

Instructions:

1. **Install the requests library:**
2. **Write code to send an HTTP POST request to save a dog profile:**
    - Import the **requests** module.
    - Define the URL for saving the dog profile.
    - Prepare the data in JSON format.
    - Send an HTTP POST request using **requests.post()**.
3. Example call

```
import requests

# URL for saving dog profile
save_dog_profile_url = "http://localhost:5001/save_dog_profile"

# Example data for creating a dog profile
dog_info = {
   "dogInfo": {
      "name": "Buddy",
      "Weight": "Medium",
      "age": 3,
      "homeZip": "12345",
      "playSpace": "Backyard"
   }
}

# Send POST request to save dog profile
response = requests.post(save_dog_profile_url, json=dog_info)

# Print the response
print(response.status_code, response.json())
```

Receiving Data from the Microservice:

Instructions:

1. **Write code to send an HTTP GET request to retrieve all dog profiles:**
    - Import the **requests** module.

- Define the URL for retrieving all dog profiles.
- Send an HTTP GET request using **requests.get()**.

2. Example call

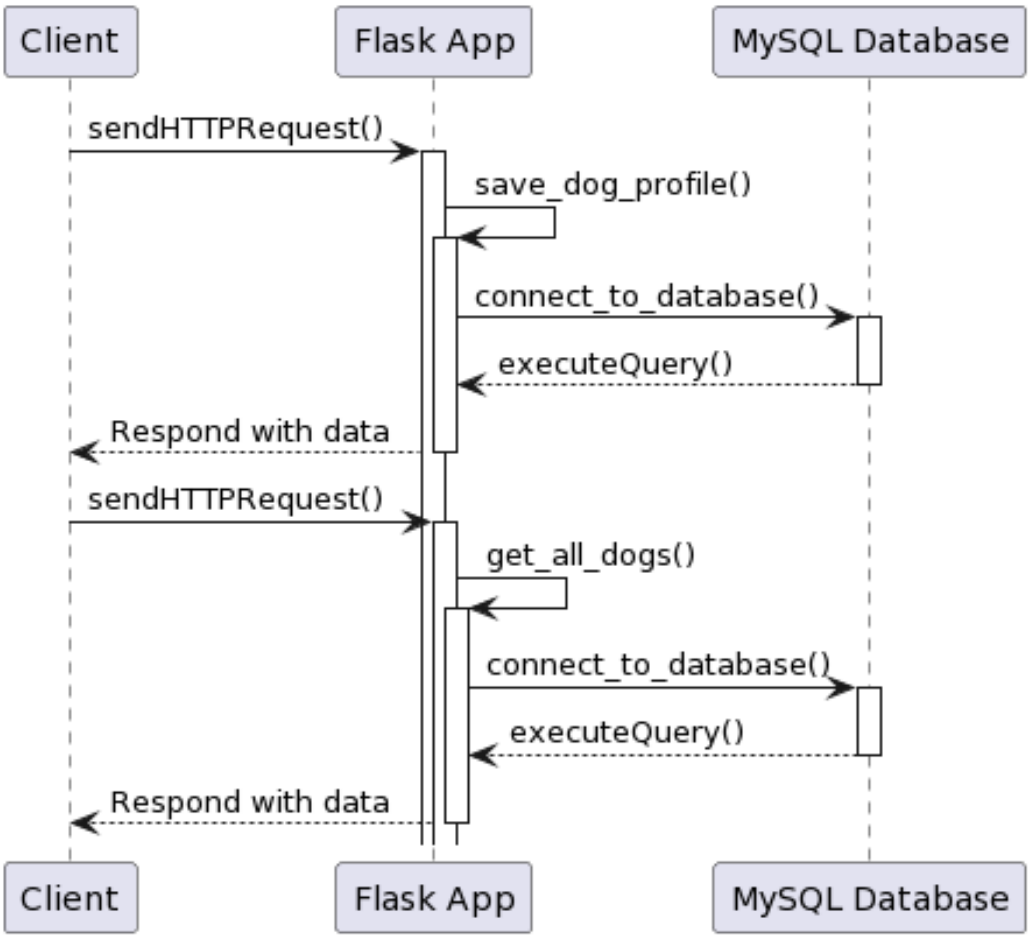
```
import requests

# URL for retrieving all dog profiles
get_all_dogs_url = "http://localhost:5001/get_all_dogs"

# Send GET request to retrieve all dog profiles
response = requests.get(get_all_dogs_url)

# Print the response
print(response.status_code, response.json())
```

- The **requests.post()** function is used to send an HTTP POST request to the specified URL (**save_dog_profile_url**) with the provided JSON data (**dog_info**).
- The **requests.get()** function is used to send an HTTP GET request to the specified URL (**get_all_dogs_url**).
- The responses from the microservice are printed, including the HTTP status code and the JSON content.


Client
Flask App
MySQL Database
sendHTTPRequest()
save_dog_profile()
connect_to_database()
executeQuery()
Respond with data
sendHTTPRequest()
get_all_dogs()
connect_to_database()
executeQuery()
Respond with data
Client
Flask App
MySQL Database