GET request- reserve parking spot with id = 1

- Returns updated list of available parking spots with the reserved parking spot with id = 1
  removed

```
GET ∨    127.0.0.1:5000/api/v1/parkingspots/reserve/1              Params    Send  ∨   Save  ∨

Pretty    Raw    Preview    JSON ∨    ⇥

1 ▾ [
2 ▾     {
3           "id": 2,
4           "lat": 37.6,
5           "lon": -122.2
6       },
7 ▾     {
8           "id": 3,
9           "lat": 36.9,
10          "lon": -121.1
11      },
12 ▾    {
13          "id": 4,
14          "lat": 36.6,
15          "lon": -122.6
16      },
17 ▾    {
18          "id": 5,
19          "lat": 37.7,
20          "lon": -122.4
21      },
22 ▾    {
23          "id": 6,
24          "lat": 37.3,
25          "lon": -122.2
26      }
```

GET request- reserve parking spot with id = 5

- Returns updated list of available parking spots with the reserved parking spot with id = 5
  removed

```
GET ∨    127.0.0.1:5000/api/v1/parkingspots/reserve/5              Params    Send  ∨   Save  ∨

Pretty    Raw    Preview    JSON ∨    ⇥

2 ▾     {
3           "id": 2,
4           "lat": 37.6,
5           "lon": -122.2
6       },
7 ▾     {
8           "id": 3,
9           "lat": 36.9,
10          "lon": -121.1
11      },
12 ▾    {
13          "id": 4,
14          "lat": 36.6,
15          "lon": -122.6
16      },
17 ▾    {
18          "id": 6,
19          "lat": 37.3,
20          "lon": -122.2
21      },
22 ▾    {
23          "id": 7,
24          "lat": 35.3,
25          "lon": -120.5
26      },
```
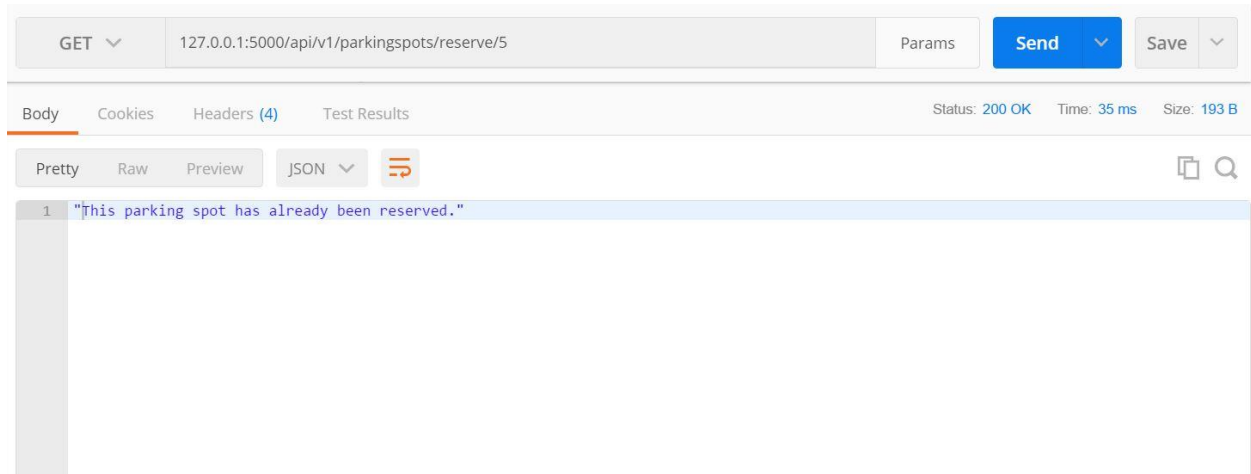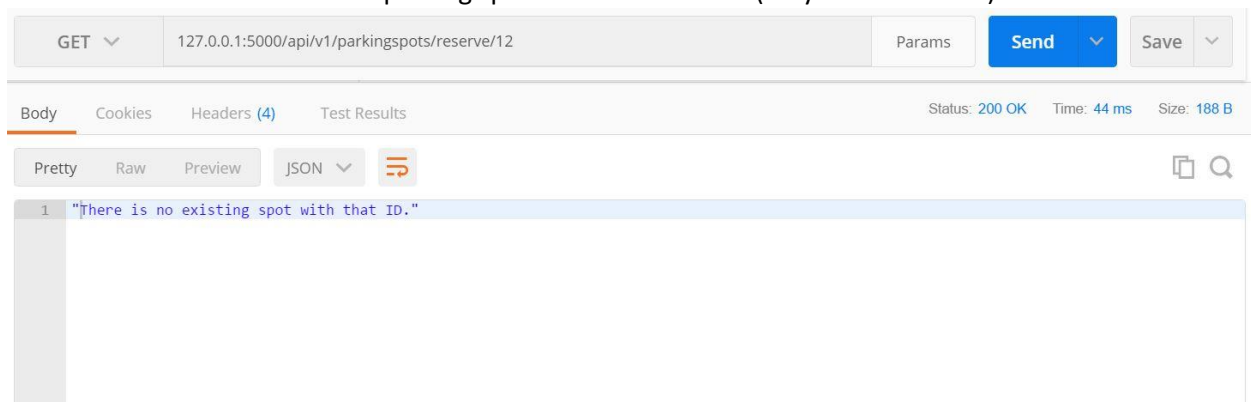
GET request with parking spot that has already been reserved (id = 5 again)

- Lets the user know that the parking spot they want to reserve has already been reserved

GET ∨	127.0.0.1:5000/api/v1/parkingspots/reserve/5	Params	Send ∨	Save ∨

Body   Cookies   Headers (4)   Test Results   Status: 200 OK   Time: 35 ms   Size: 193 B

Pretty   Raw   Preview   JSON ∨

```
1  "This parking spot has already been reserved."
```

GET request with parking spot that does not exist in the lot

- Tells user that no such parking spot with that id exists (only have id's 1-10)

GET ∨	127.0.0.1:5000/api/v1/parkingspots/reserve/12	Params	Send ∨	Save ∨

Body   Cookies   Headers (4)   Test Results   Status: 200 OK   Time: 44 ms   Size: 188 B

Pretty   Raw   Preview   JSON ∨

```
1  "There is no existing spot with that ID."
```

POST request with lat = 37.0, lon = -120, radius = 1.0

- Returns an empty list because there are no available parking spots available within such a small radius

	POST ∨	127.0.0.1:5000/api/v1/parkingspots/available/1?lat=37.0&lon=-120&radius=1.0	Params	Send ∨	Save ∨

	Key	Value	Description	•••	Bulk Edit
☑	lat	37.0			
☑	lon	-120			
☑	radius	1.0			
	New key	Value	Description		

Authorization   Headers   Body   Pre-request Script   Tests   Cookies Code

	Key	Value	Description	•••	Bulk Edit Presets ▼
	New key	Value	Description		

Body   Cookies   Headers (4)   Test Results   Status: 200 OK   Time: 72 ms   Size: 148 B

Pretty   Raw   Preview   JSON ∨   ⇥

```
1  []
```

POST request with lat = 37.0, lon = -120, radius = 10.0

- Returns list with all the parking spots within a radius of 10 from the spot at lat 37 and lon -120 (all parking spots except spot with id = 1)
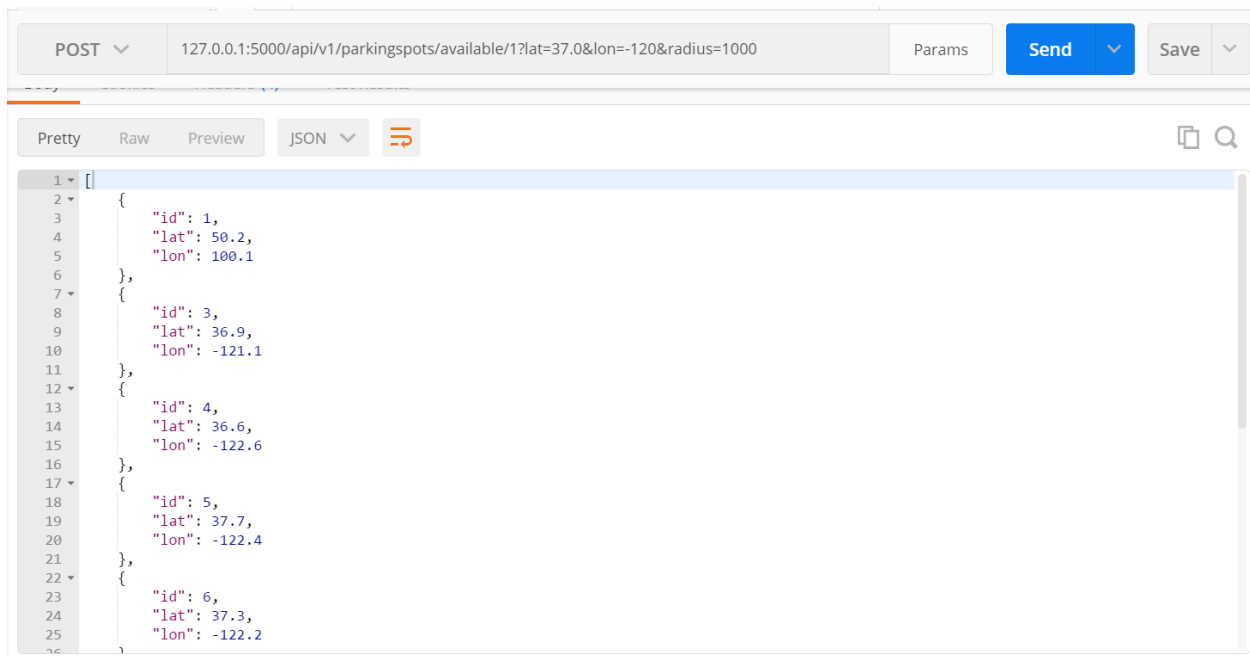
	POST ∨	127.0.0.1:5000/api/v1/parkingspots/available/1?lat=37.0&lon=-120.0&radius=10.0	Params	Send ∨	Save ∨

Body   Cookies   Headers (4)   Test Results   Status: 200 OK   Time: 46 ms   Size: 735 B

Pretty   Raw   Preview   JSON ∨   ⇥

```
1  [
2      {
3          "id": 2,
4          "lat": 37.6,
5          "lon": -122.2
6      },
7      {
8          "id": 3,
9          "lat": 36.9,
10         "lon": -121.1
11     },
12     {
13         "id": 4,
14         "lat": 36.6,
15         "lon": -122.6
16     },
17     {
18         "id": 6,
19         "lat": 37.3,
20         "lon": -122.2
21     },
22     {
23         "id": 7,
24         "lat": 35.3,
```
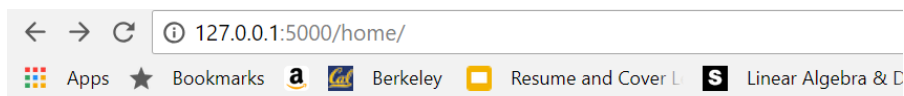
POST request with radius 1000 → all spots are available

POST ∨ | 127.0.0.1:5000/api/v1/parkingspots/available/1?lat=37.0&lon=-120&radius=1000 | Params | Send ∨ | Save ∨

Pretty Raw Preview   JSON ∨

```
1  [
2    {
3      "id": 1,
4      "lat": 50.2,
5      "lon": 100.1
6    },
7    {
8      "id": 3,
9      "lat": 36.9,
10     "lon": -121.1
11   },
12   {
13     "id": 4,
14     "lat": 36.6,
15     "lon": -122.6
16   },
17   {
18     "id": 5,
19     "lat": 37.7,
20     "lon": -122.4
21   },
22   {
23     "id": 6,
24     "lat": 37.3,
25     "lon": -122.2
```

On the Webpage:

Check available spots → POST request

Reserve a parking spot → GET request

127.0.0.1:5000/home/

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Parking Spots

Check available spots:
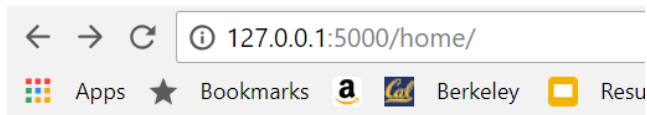
Latitude:

Longitude:

Radius:

Submit

Reserve a parking spot:

Parking Spot ID:

Submit

Check available spots within raidus of 10 from point
with lat = 37 and lon = -120 → returns list of all available
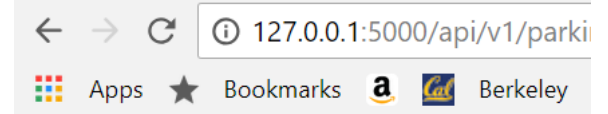spots (all except spot with id = 1)

← → C | ⓘ 127.0.0.1:5000/home/

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Parking Spots

Check available spots:

Latitude:

```
37.0
```

Longitude:

```
-120
```

Radius:

```
10.0
```

[Submit]

Reserve a parking spot:

Parking Spot ID:

```

```

[Submit]

← → C | ⓘ 127.0.0.1:5000/api/v1/parki

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```
[
    {
        "id": 2,
        "lat": 37.6,
        "lon": -122.2
    },
    {
        "id": 3,
        "lat": 36.9,
        "lon": -121.1
    },
    {
        "id": 4,
        "lat": 36.6,
        "lon": -122.6
    },
    {
        "id": 5,
        "lat": 37.7,
        "lon": -122.4
    },
    {
        "id": 6,
        "lat": 37.3,
        "lon": -122.2
    },
    {
        "id": 7,
        "lat": 35.3,
        "lon": -120.5
    },
    {
        "id": 8,
        "lat": 33.9,
        "lon": -121.7
    },
    {
        "id": 9,
        "lat": 37.8,
        "lon": -121.4
    },
    {
        "id": 10,
        "lat": 38.1,
        "lon": -122.3
    }
]
```

Reserve parking spot with id = 2:

127.0.0.1:5000/home/

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Parking Spots

Check available spots:

Latitude:

Longitude:

Radius:

Submit

Reserve a parking spot:

Parking Spot ID:

2

Submit

127.0.0.1:5000/api/v1

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```
[
    {
        "id": 1,
        "lat": 50.2,
        "lon": 100.1
    },
    {
        "id": 3,
        "lat": 36.9,
        "lon": -121.1
    },
    {
        "id": 4,
        "lat": 36.6,
        "lon": -122.6
    },
    {
        "id": 5,
        "lat": 37.7,
        "lon": -122.4
    },
    {
        "id": 6,
        "lat": 37.3,
        "lon": -122.2
    },
    {
        "id": 7,
        "lat": 35.3,
        "lon": -120.5
    },
    {
        "id": 8,
        "lat": 33.9,
        "lon": -121.7
    },
    {
        "id": 9,
        "lat": 37.8,
        "lon": -121.4
    },
    {
        "id": 10,
        "lat": 38.1,
        "lon": -122.3
    }
]
```