About the code:

Add points:

The code will take 3 parameters from the body

Points, Company, Date.

If the company already exist in the JSON array, points and date are updated for that company.

If not, a new object is created and pushed into the array.

Delete Points:

The code will take one parameter from the body

Points (to be deleted)

If total points < points, code will return “not enough points”

Else, Points will be deducted from the object with the least timestamp value, the operation is repeated until points = 0

Check Points:

Will return array of JSON objects.

Instructions to run the service.

1) Go to the project folder using terminal and run the following command

   ```
   npm run dev
   ```

2) Get request links

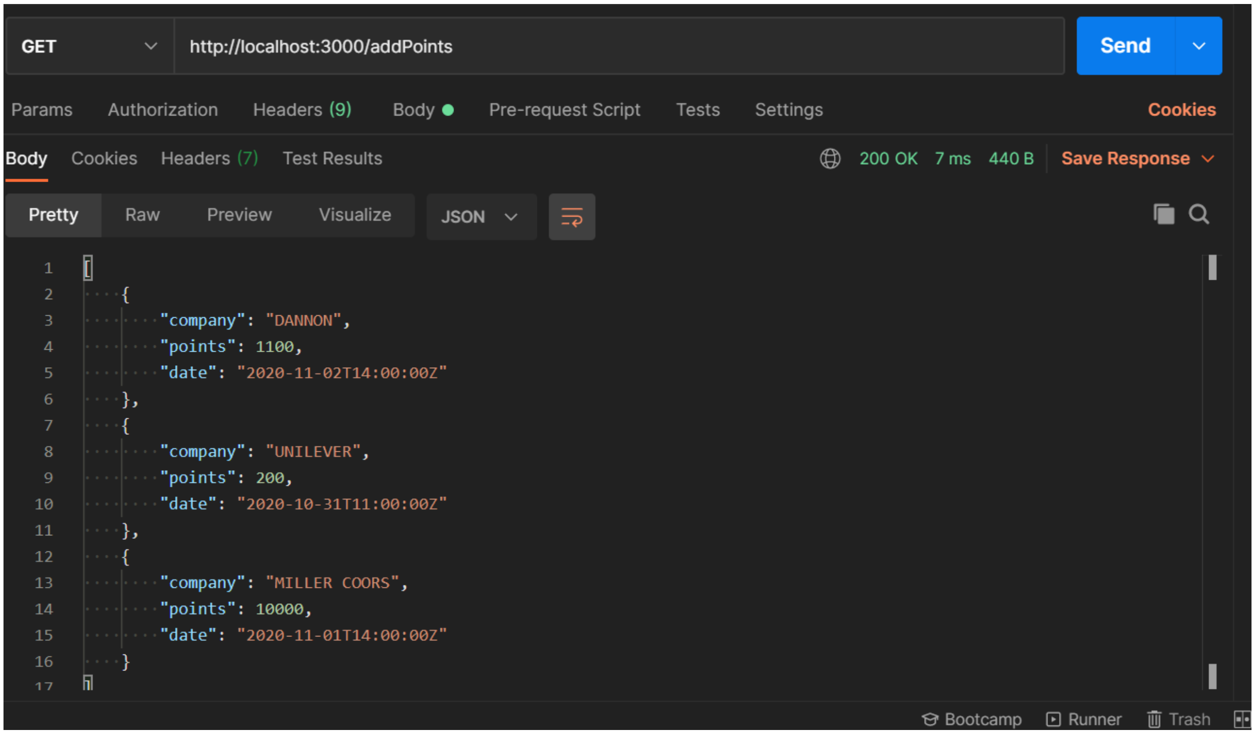
Request	Route
Add Points	http://localhost:3000/addPoints
Delete Points	http://localhost:3000/deletePoints
Check points	http://localhost:3000/points

I have used postman to make the calls, following are the screenshots of responses I received:

Add points:

Body of requests

```
{"payer": "DANNON", "points": 1000, "timestamp": "2020-11-02T14:00:00Z”}
 {“payer": "UNILEVER", "points": 200, "timestamp": "2020-10-31T11:00:00Z”}
 {“payer": "DANNON", "points": -200, "timestamp": "2020-10-31T15:00:00Z”}
{“payer": "MILLER COORS", "points": 10000, "timestamp": "2020-11-01T14:00:00Z”}
 {“payer": "DANNON", "points": 300, "timestamp": "2020-10-31T10:00:00Z”}
```

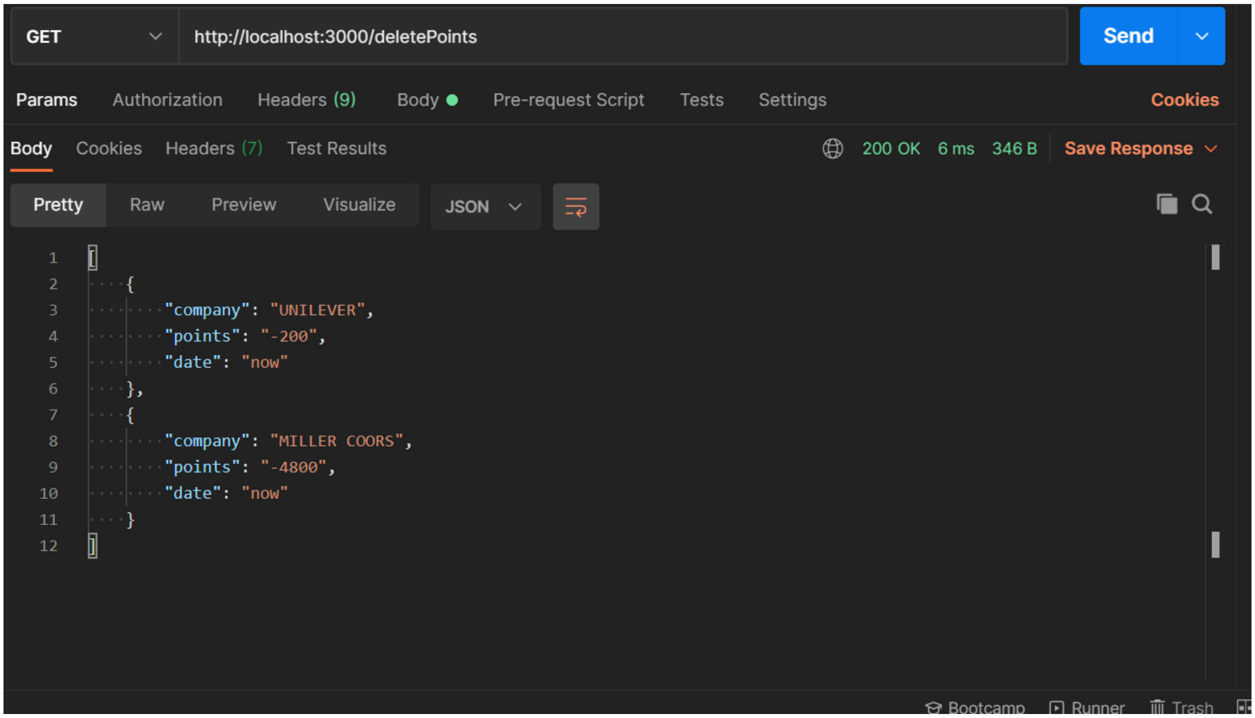


GET http://localhost:3000/addPoints

```
[
    {
        "company": "DANNON",
        "points": 1100,
        "date": "2020-11-02T14:00:00Z"
    },
    {
        "company": "UNILEVER",
        "points": 200,
        "date": "2020-10-31T11:00:00Z"
    },
    {
        "company": "MILLER COORS",
        "points": 10000,
        "date": "2020-11-01T14:00:00Z"
    }
]
```

Delete Points

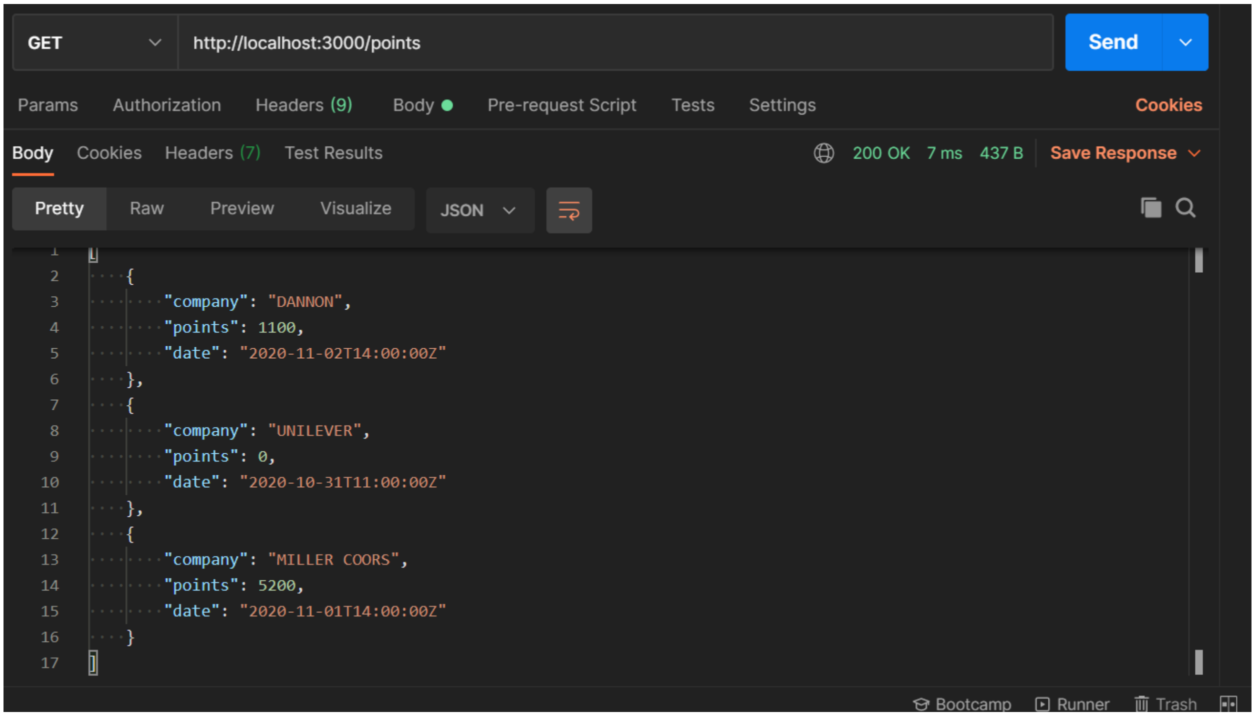
Body: {“points”: 5000}



GET http://localhost:3000/deletePoints

```
[
    {
        "company": "UNILEVER",
        "points": "-200",
        "date": "now"
    },
    {
        "company": "MILLER COORS",
        "points": "-4800",
        "date": "now"
    }
]
```

Check Points



```
GET http://localhost:3000/points
```

```
[
    {
        "company": "DANNON",
        "points": 1100,
        "date": "2020-11-02T14:00:00Z"
    },
    {
        "company": "UNILEVER",
        "points": 0,
        "date": "2020-10-31T11:00:00Z"
    },
    {
        "company": "MILLER COORS",
        "points": 5200,
        "date": "2020-11-01T14:00:00Z"
    }
]
```