



Education

Lab 6.2 - Implement a RESTful JSON DELETE

The labs-2 folder contains the following files:

- `model.js`
- `package.json`
- `validate.js`

The `model.js` file and the `package.json` file are exactly the same as the first lab exercise in this chapter and in the previous chapter.

The `model.js` file has the following content:

```
'use strict'

module.exports = {
  boat: boatModel()
}

function boatModel () {
  const db = {
    1: { brand: 'Chaparral', color: 'red' },
    2: { brand: 'Chaparral', color: 'blue' }
  }

  return {
    uid,
    create,
    read,
    update,
    del
```

```
}

function uid () {
  return Object.keys(db)
    .sort((a, b) => a - b)
    .map(Number)
    .filter((n) => !isNaN(n))
    .pop() + 1 + ''
}

function create (id, data, cb) {
  if (db.hasOwnProperty(id)) {
    const err = Error('resource exists')
    err.code = 'E_RESOURCE_EXISTS'
    setImmediate(() => cb(err))
    return
  }
  db[id] = data
  setImmediate(() => cb(null, id))
}

function read (id, cb) {
  if (!(db.hasOwnProperty(id))) {
    const err = Error('not found')
    err.code = 'E_NOT_FOUND'
    setImmediate(() => cb(err))
    return
  }
  setImmediate(() => cb(null, db[id]))
}

function update (id, data, cb) {
  if (!(db.hasOwnProperty(id))) {
    const err = Error('not found')
    err.code = 'E_NOT_FOUND'
    setImmediate(() => cb(err))
    return
  }
  db[id] = data
  setImmediate(() => cb())
}
```

```
function del (id, cb) {
  if (!(db.hasOwnProperty(id))) {
    const err = Error('not found')
    err.code = 'E_NOT_FOUND'
    setImmediate(() => cb(err))
    return
  }
  delete db[id]
  setImmediate(() => cb())
}
}
```

The `package.json` file looks as follows:

```
{
  "name": "labs-1",
  "version": "1.0.0",
  "description": "",
  "scripts": {
    "start": "echo \"Error: start script not specified\" && exit 1",
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}
```

Use either Fastify or Express to implement a RESTful HTTP server so that when the command `npm start` is executed it starts a server that listens on `process.env.PORT`.

The server should support a **DELETE** request to `/boat/{id}` where `{id}` is a placeholder for any given ID - for instance `/boat/2`.

A successful request should result in an empty response body with a 204 No Content status code. If the specified ID does not exist, the response should have a 404 status code. Any unexpected errors should result in a 500 Server Error response.

The service must also support the same **GET** `/boat/{id}` route as implemented in the previous chapter.

Feel free to copy the files and folders from the labs-1 answer into this labs-2 answer or start from scratch as preferred.

Making sure that the labs-2 folder is the current working directory, run the following command to validate the completed exercise:

```
node validate
```