Adding Animals Routes

18 min

Congratulations, you have made our glorious Express Yourself Machine <u>fully operational!</u> Not only that, you now have all the tools you need to create a basic CRUD API! Time to practice your skills with a new set of routes.

You are going to add an additional set of functionality to our machine: Animal Mode! This will involve creating similar GET, POST, PUT, and DELETE routes.

Instructions

1. Checkpoint 1 Passed

1.

In your **app.js** file, Create a GET /animals route to return an array of all animals.

2. Checkpoint 2 Passed

2.

Create a GET /animals/:id route to respond with a single animal.

3. Checkpoint 3 Passed

3.

Create a PUT /animals/:id route to update an animal in animals and send back the updated animal.

4. Checkpoint 4 Passed

4.

Create a POST /animals route to add new animals to the animals and respond with the new animal.

5. Checkpoint 5 Passed

5.

Create a DELETE /animals/:id route to delete animals by ID.

```
app.js
const express = require('express');
const app = express();
// Serves Express Yourself website
app.use(express.static('public'));
const { getElementById, getIndexById, updateElement,
    seedElements, createElement } = require('./utils');
const expressions = [];
seedElements(expressions, 'expressions');
const animals = [];
seedElements(animals, 'animals');
const PORT = process.env.PORT | | 4001;
app.get('/expressions', (req, res, next) => {
 res.send(expressions);
});
app.get('/animals', (req, res, next) => {
 res.send(animals);
});
app.get('/expressions/:id', (req, res, next) => {
 const foundExpression = getElementById(req.params.id, expressions);
 if (foundExpression) {
  res.send(foundExpression);
```

```
} else {
  res.status(404).send();
}
});
app.get('/animals/:id', (req, res, next) => {
 const foundAnimal = getElementById(req.params.id, animals);
 if (foundAnimal) {
  res.send(foundAnimal);
 } else {
  res.status(404).send();
}
});
app.put('/expressions/:id', (req, res, next) => {
 const expressionIndex = getIndexById(req.params.id, expressions);
 if (expressionIndex !== -1) {
  updateElement(req.params.id, req.query, expressions);
  res.send(expressions[expressionIndex]);
 } else {
  res.status(404).send();
}
});
app.put('/animals/:id', (req, res, next) => {
 const animalIndex = getIndexById(req.params.id, animals);
 if (animalIndex !== -1) {
  updateElement(req.params.id, req.query, animals);
  res.send(animals[animalIndex]);
```

```
} else {
  res.status(404).send();
}
});
app.post('/expressions', (req, res, next) => {
 const receivedExpression = createElement('expressions', req.query);
 if (receivedExpression) {
  expressions.push(receivedExpression);
  res.status(201).send(receivedExpression);
 } else {
  res.status(400).send();
}
});
app.post('/animals', (req, res, next) => {
 const receivedAnimal = createElement('animals', req.query);
 if (receivedAnimal) {
  animals.push(receivedAnimal);
  res.status(201).send(receivedAnimal);
 } else {
  res.status(400).send();
}
});
app.delete('/expressions/:id', (req, res, next) => {
 const expressionIndex = getIndexById(req.params.id, expressions);
 if (expressionIndex !== -1) {
  expressions.splice(expressionIndex, 1);
```

```
res.status(204).send();
 } else {
  res.status(404).send();
 }
});
app.delete('/animals/:id', (req, res, next) => {
 const animalIndex = getIndexById(req.params.id, animals);
 if (animalIndex !== -1) {
  animals.splice(animalIndex, 1);
  res.status(204).send();
 } else {
  res.status(404).send();
 }
});
app.listen(PORT, () => {
 console.log(`Listening on port ${PORT}`);
});
```