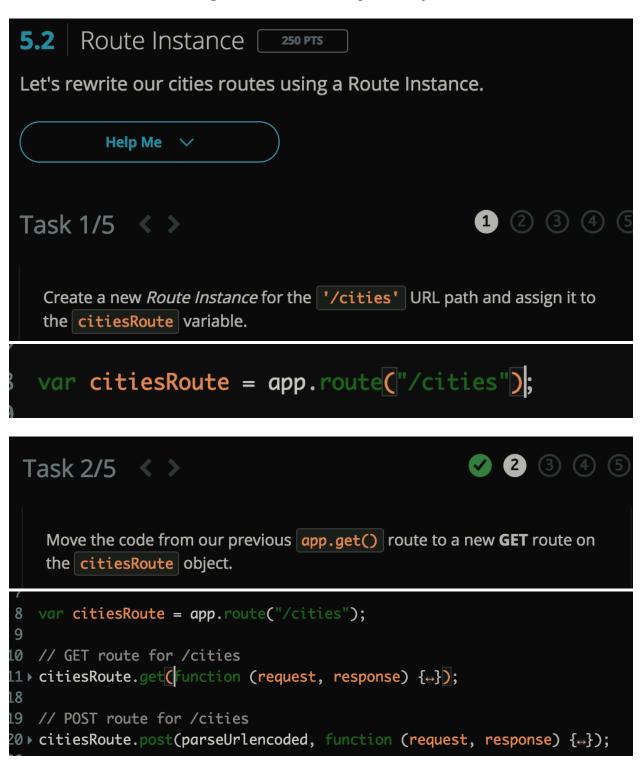
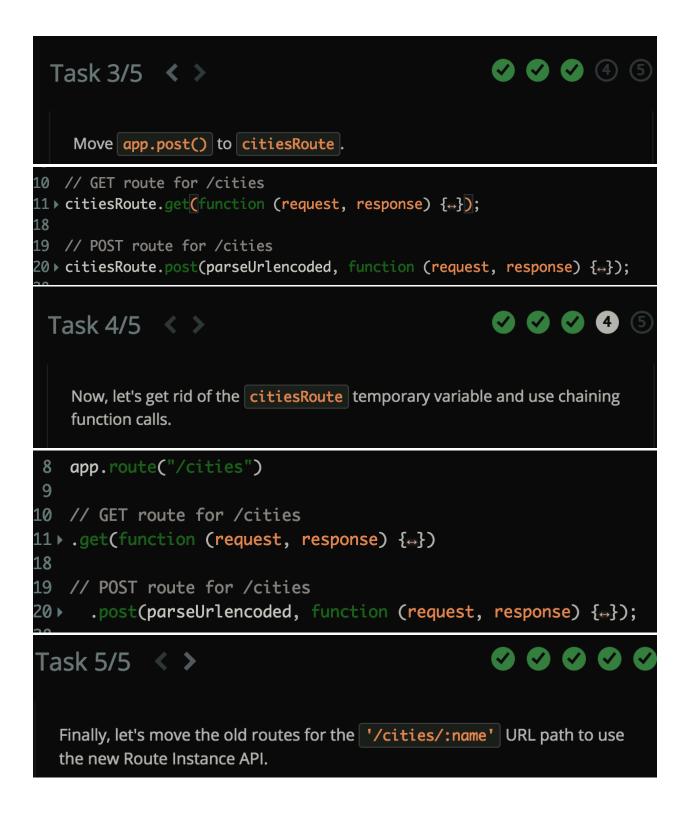
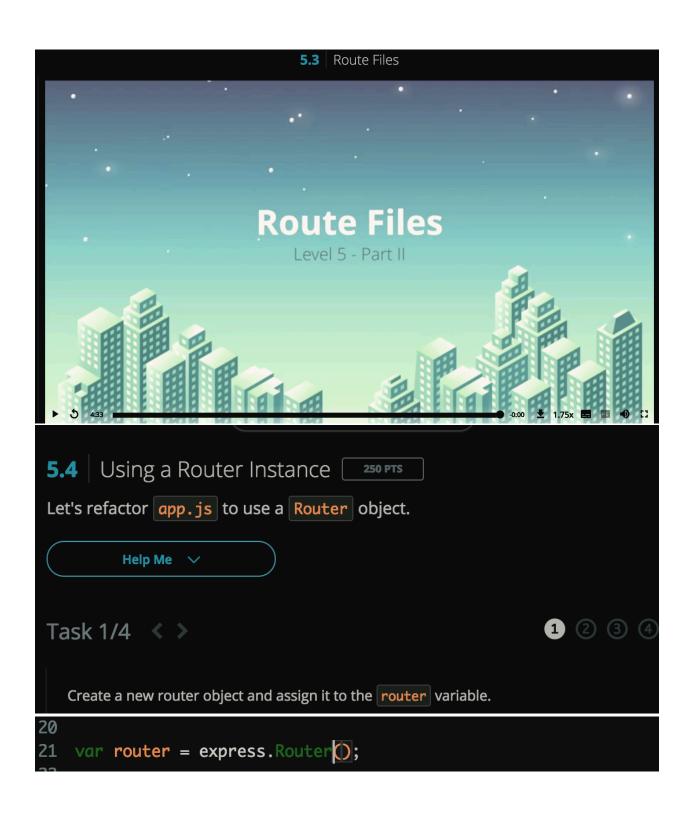
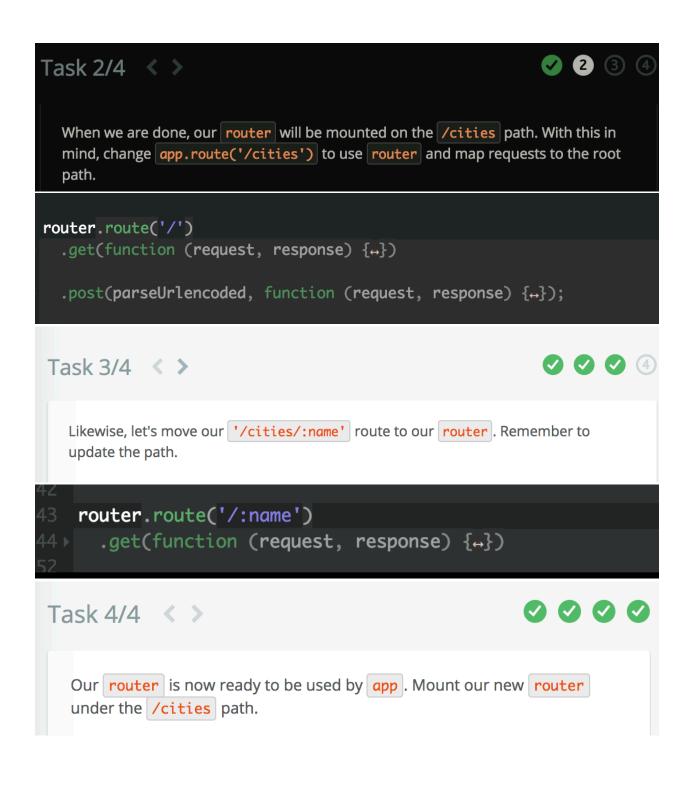
CodeSchool building-blocks-of-express-js Level 5



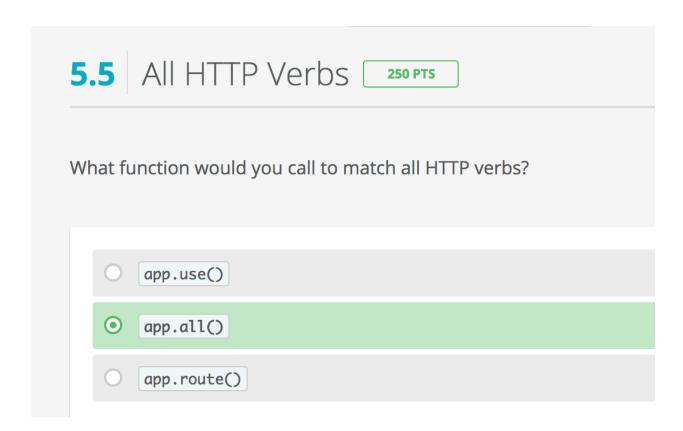


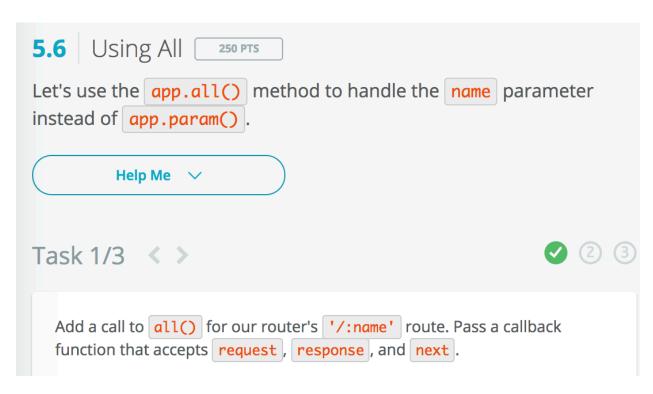
```
app.js
1 var express = require('express');
2 var app = express();
3 var bodyParser = require('body-parser');
4 var parseUrlencoded = bodyParser.urlencoded({ extended: false });
6 var cities = {};
8 app.route("/cities")
l0 // GET route for /cities
L1 ▶ .get(function (request, response) {↔})
L9 // POST route for /cities
20 ▶ .post(parseUrlencoded, function (request, response) {↔});
29 app.route("/cities/:name")
30 // GET route for /cities/:name
31 ▶ .get(function (request, response) {↔})
10 // DELETE route for /cities/:name
11 ▶ .delete(function (request, response) {↔});
50 // Searches for keyword in description and returns the city
51 ▶ function citySearch(keyword) {↔}
51 // Adds a new city to the in memory store
52 ▶ function createCity(name, description) {↔}
app.listen(3000);
```

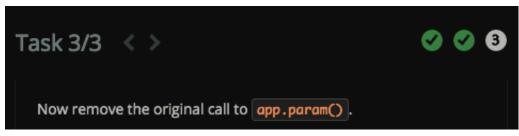




```
var express = require('express');
2 var app = express();
4 var bodyParser = require('body-parser');
5 var parseUrlencoded = bodyParser.urlencoded({ extended: false });
9 \triangleright \text{var cities} = \{ \rightarrow \};
17 \rightarrow app.param('name', function (request, response, next) {} \leftrightarrow {});
var router = express.Router();
router.route('/')
     .get(function (request, response) {↔})
     .post(parseUrlencoded, function (request, response) {↔});
   router.route('/:name')
     .get(function (request, response) {↔})
     .delete(function (request, response) {↔});
60 app.use('/cities', router);
64 ▶ function citySearch(keyword) {↔}
75 ▶ function createCity(name, description){↔}
81 ▶ function parseCityName(name){↔}
86 app.listen(3000);
```







```
app.js

1  var express = require('express');
2  var app = express();
3
4  var bodyParser = require('body-parser');
5  var parseUrlencoded = bodyParser.urlencoded({ extended: false });
6
7  // In memory store for the cities in our application
8  var cities = {+};
15
16  // Searches for keyword in description and returns the city
17  function citySearch(keyword) {+}
25
26  // Adds a new city to the in memory store
27  function createCity(name, description) {+}
```

```
32 // Uppercase the city name.
33 ▶ function parseCityName(name) {↔}
38 var router = express.Router();
39
40 router.route('/')
41 ▶
    .get(function (request, response) {↔})
48
     .post(parseUrlencoded, function (request, response) {⊕});
49 ▶
57
58 router.route('/:name')
59▼ .all(function(request, response, next){
     request.cityName = parseCityName(request.params.name);
61 })
62
63 ₹
     .get(function (request, response) {
64 ₹
       var cityInfo = cities[↔];
65 🕶
       if(cityInfo) {
66
         response.json(cityInfo);
67▼
86
          response.status(404).json("City not found");
69
70
     3)
71
72 ~
     .delete(function (request, response) {
73 ▶
       if(cities[request.cityName]) {+} else {
77
         response.sendStatus(404);
78
79
     });
80
81 app.use('/cities', router);
82
83 app.listen(3000);
```

Creating a Router Module 250 PTS Our single application file is growing too long. It's time we extract our routes to a separate Node module under the **routes** folder.

Help Me ∨

Task 1/3 < >







Move our router and its supporting code from app.js to routes/cities.js.

```
routes/cities.js
       express = require('express');
 3 var bodyParser = require('body-parser');
 4-var parseUrlencoded = bodyParser.urlencoded({ extended: false });
 6 // In memory store for the
 7 // cities in our application
 8+var cities = {
     'Indigo': 'Vibrant and thriving',
14 };
16 var router = express.Router();
18 router.route('/')
     .get(function (request, response) {
  if(request.query.search){
19+
20+
          response.json(citySearch(request.query.search));
22~
          response.json(cities);
     3)
     .post(parseUrlencoded, function (request, response) {
28+
       if(request.body.description.length > 4){
         var city = createCity(request.body.name, request.body.description);
         response.status(201).json(city);
         response.status(400).json('Invalid City');
     3);
```

```
36 router.route('/:name')
37▼ .all(function (request, response, next) {
        request.cityName = parseCityName(request.params.name);
39
      3)
40
41-
     .get(function (request, response) {
42₩
       var cityInfo = cities[request.cityName];
43∓
       if(cityInfo){
          response.json(cityInfo);
45∓
        }else[
          response.status(404).json("City not found");
        }
48
      3)
50+
      .delete(function (request, response) {
       if(cities[request.cityName]){
         delete cities[request.cityName];
          response.sendStatus(200);
54+
        }else{
          response.sendStatus(404);
      3);
58
59 // Searches for keyword in description
60 // and returns the city
61 function citySearch(keyword) {
62  var regexp = RegExp(keyword, 'i');
63 var result = cities.filter(function (city) {
       return city.match(regexp);
      3);
66
67 return result;
68 }
69
70 // Adds a new city to the
71 // in memory store
72-function createCity(name, description){
73   cities[name] = description;
74 return name;
75 }
76
77 // Uppercase the city name.
78 - function parseCityName(name){
79 var parsedName = name[0].toUpperCase() + name.slice(1).toLowerCase();
80 return parsedName;
81
```



Task 3/3 < >

module.exports = router;

}







Our cities routes module is now ready to be used from *app.js*. Require the new *routes/cities* module from *app.js* and assign it to a variable called **router**;

```
app.js routes/cities.js

1  var express = require('express');
2  var app = express();
3
4  var router = require("routes/cities");
5
6  app.use('/cities', router);
7  app.listen(3000);
8
```