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SWE Workshop

Back End Module Week 1



Agenda

- Welcome to the Back End Module! (10 min)
- Icebreaker (10 minutes)
- Demo Lesson (20 minutes)
- Breakout (40 minutes)
- Daily Review (20 minutes)





What's one thing you've learned on-the-job so far?

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Daily Objectives



Today's Objectives

What are we doing today, and why should we care?

By the end of today, we should be able to:

- Understand what RESTful means
- Write a RESTful API route handler
- Use Query Strings in a route handler



Representational State Transfer?!

- Sending *representations* rather than *resources*
 - Client can manipulate the resource via the representation

- Requests are separate & unconnected, and no client information is stored between requests . . . It's stateless
- Information is transferred in a standard form (Hello, JSON!)
 - Also HTML, XLT, Python, PHP, plain text



Representational State Transfer?!

- Things to keep in mind:
 - Scalable
 - Routes are reusable
 - Easy to understand, verb & noun based



HTTP Verbs & Nouns

- What are some verbs?
- Nouns

Less specific

 \downarrow

More specific

app.post('/dogs', ...)

RESTful

app.get('/animals/dogs', ...)

Not RESTful

app.get('/dogs/create-dog', ...)

app.get('/animals/1/spaniel', ...)

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Query Strings & req.query

https://www.example.com/noun?key1=value1&key2=value2

- key: value pairs
- Use req.query to access:
 - const { color } = req.query const blackCars = await Cars.findAll({where: {color: black}})
 - Can also use req.query.color (think about DRY code, though)
 - Accessing the whole query object:
 - const queryObject = req.query



Demo

To Be Continued in the Editor...



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Breakout Rooms

200

We have 40 minutes!

Jump in with your partner, and work on the exercises! While working on the problem, remember:

- Discuss the problem, come up with a solution together
- Collaborate on the project.
- Switch **Driver** and **Navigator** halfway through





Daily Review

200

We have 20 minutes!

Let's Vote: Which portions of the workshop would we like to review together?

AND/OR

Extensions we can explore:

- PUT vs PATCH
- Middleware

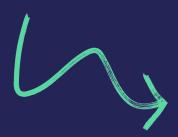
Where to go from here:

Express Router: Routes, Controllers





Thank you



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