CSc 337



LECTURE 1: POST

Exercise - part 3

If there are no books that are in the category that the user supplies have your service return a 410 status and a message about the category not being found.

Set the status with the following code:

```
res.status(410);
```

GET vs POST

Two different types of requests you can send to a web service:

GET - asks the server for data

POST - sends data to the server

Why can't POST requests work the same way as GET requests?

Dealing with a POST request in a service

```
app.post('/', function (req, res) {
    res.header("Access-Control-Allow-Origin", "*");
    res.send('Hello world');
});
```

- instead of using app.get use app.post
- Send response as usual

Making a POST request from the client

```
fetch(url, {method : 'POST'})
   .then(checkStatus)
   .then(function(responseText) {
   .catch(function(error) {
   });

    Add a second parameter to fetch specifying the method

- There are many methods POST, PUT, PATCH, DELETE, ...
 -Get is the default method
```

Sending parameters

Send parameters as JSON!

By default parsing is really messy so we will install a helpful package body-parser

Run this on the command line in your code directory:

npm install body-parser

Sending Parameters

Add a stringified version of the JSON you want to send to an object containing the other options and send that.

Dealing with POST parameters on the server

```
const bodyParser = require('body-parser');
const jsonParser = bodyParser.json();

app.post('/', jsonParser, function (req, res) {
    const name = req.body.name;
    res.send('Hello, ' + name);
});
```

Accessing parameters is similar to with a get request except you need to access req.body instead of req.query

Prefilght CORS error

The code on the previous slide produces an error because it is accepting complex parameter content and Allow-Access-Control-Origin isn't set.

- Adding this line in where we usually do doesn't fix this.
- Add the code below instead:

File Turn In Client

Write a page that allows the user to enter their name, email and select an assignment number from a dropdown menu. It should also include a text area where they can paste their code and a submit button.

When the user clicks the submit button the information should be sent to the server as a POST request.

File Turn In Service

Write a web service that accepts that data your client page posted. You service should save the code from the text area into a file named the student's name and section.

The service should send a success message back to the client if it was successful and a failure message back if it was not.

File saving information on the next slide.

Writing Files

```
appending to a file:
fs.appendFile(filename, filecontent, function(err) {
      if(err) {
            return console.log(err);
      console.log("The file was saved!");
});
writing to a file:
fs.writeFile(filename, filecontent, function(err) {
      if(err) {
            return console.log(err);
      console.log("The file was saved!");
});
```

File Turn In Confirmation

Have your page display a confirmation message stating whether the request was successful. This message should include the code the user submitted if the request came back successful.