Exercise 3.d
Axios on both Client and Server

Prof. Fabio Ciravegna
Department of Computer Science
The University of Sheffield
f.ciravegna@sheffield.ac.uk

Using Axios

- This is the same exercise as 2.a but we use
  - Axios on teh client instead of JQuery
  - Axios on the server instead of fetch

Replacing JQuery

- add teh dependency on Axios in the ejs file

```
<script src="https://cdn.jsdelivr.net/npm/axios/dist/axios.min.js"></script>
```

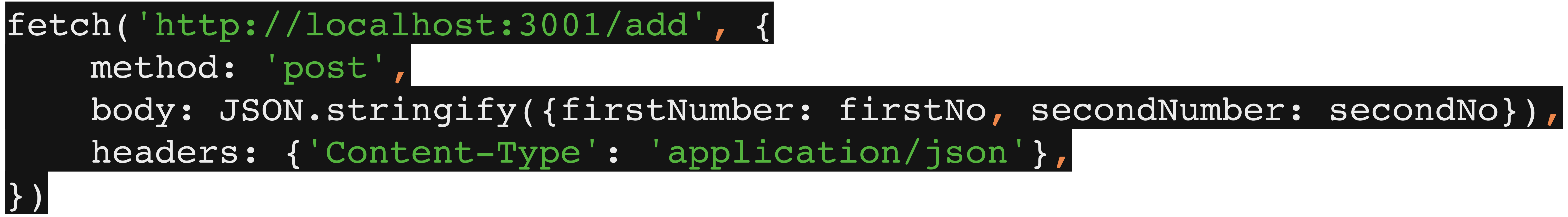
- Remove the JQuery call and insert the axios call
  - Solution in the next slide but try to work it out yourself

Solution for the client

```
function sendAjaxQuery(url, data) {
    axios.post(url , data)
        .then (function (dataR) {
            document.getElementById('results').innerHTML= "The result is: "+JSON.stringify(dataR.data);
        })
        .catch( function (response) {
            alert (response.toJSON());
        })
}
```

Replacing Fetch

- Axios is simpler to use than Fetch
  - remove this part



```
fetch('http://localhost:3001/add', {
    method: 'post',
    body: JSON.stringify({firstNumber: firstNo, secondNumber: secondNo}),
    headers: {'Content-Type': 'application/json'},
})
```

  - with the corresponding Axios call
- Solution in the next slide but try to work it out yourself using the lecture slides

Solution: the final route

```
router.route('/')
    .get (function(req, res) {
      res.render('index', {title: 'Express'});
    })

    .post(function  (req, res) {
        let firstNo = req.body.no1;
        let secondNo = req.body.no2;
        if (isNaN(firstNo) || isNaN(secondNo)) {
            res.setHeader('Content-Type', 'application/json');
            res.status(403).json({error: 403, reason: 'One of the numbers is invalid'});
        } else {
            axios.post('http://localhost:3000/add',
                {firstNumber: firstNo, secondNumber: secondNo})
                .then(json =>
                    res.json(json.data.result))
                .catch(err => {
                    res.setHeader('Content-Type', 'application/json');
                    res.status(403).json(err)
                })
        }
    });
```