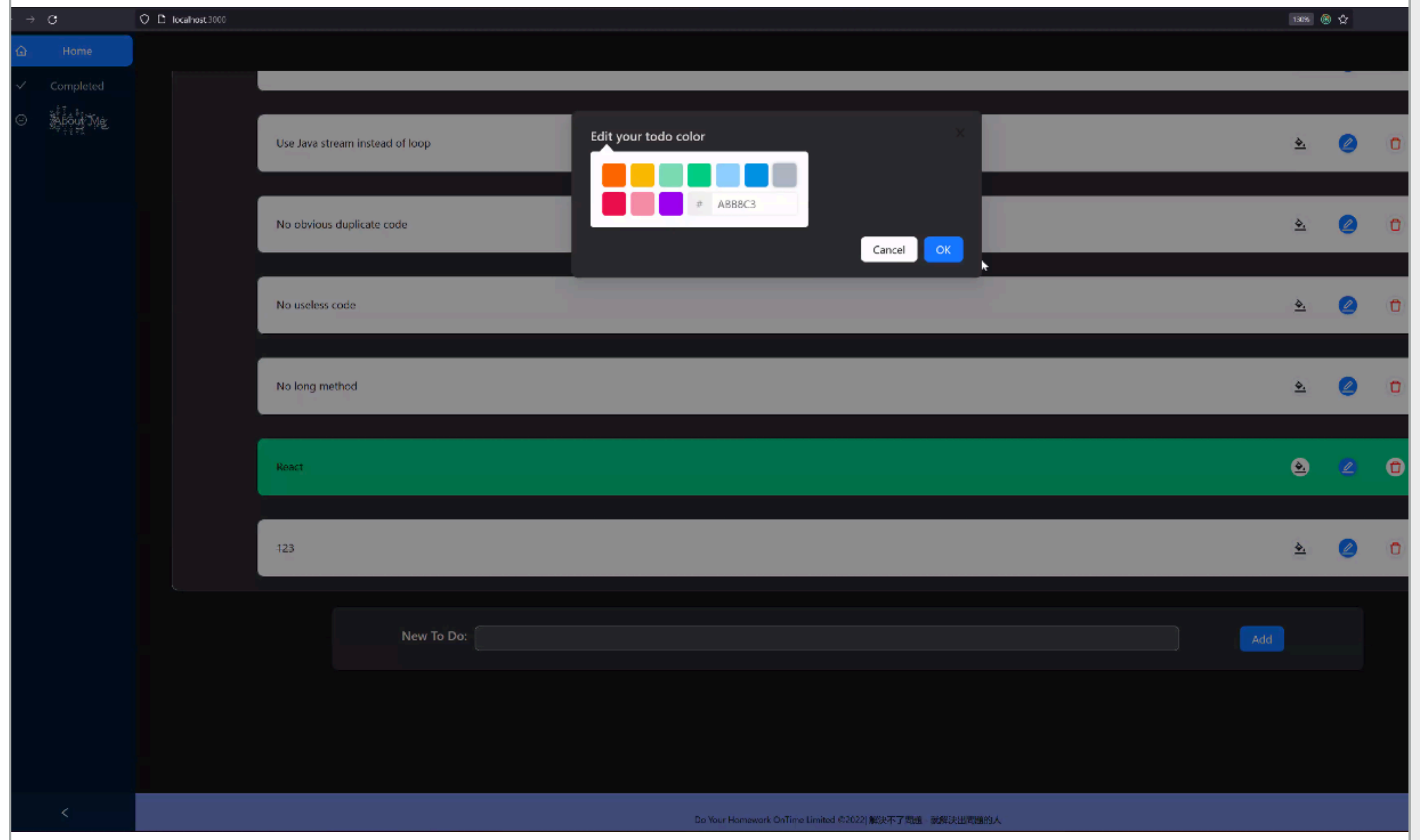
AFS
Agile Full Stack
Developer Bootcamp
Thoughtworks ©

TodoList Beauty Pageant

/thoughtworks

Each person can give **three votes.**

Alvin



Use Java stream instead of loop

No obvious duplicate code

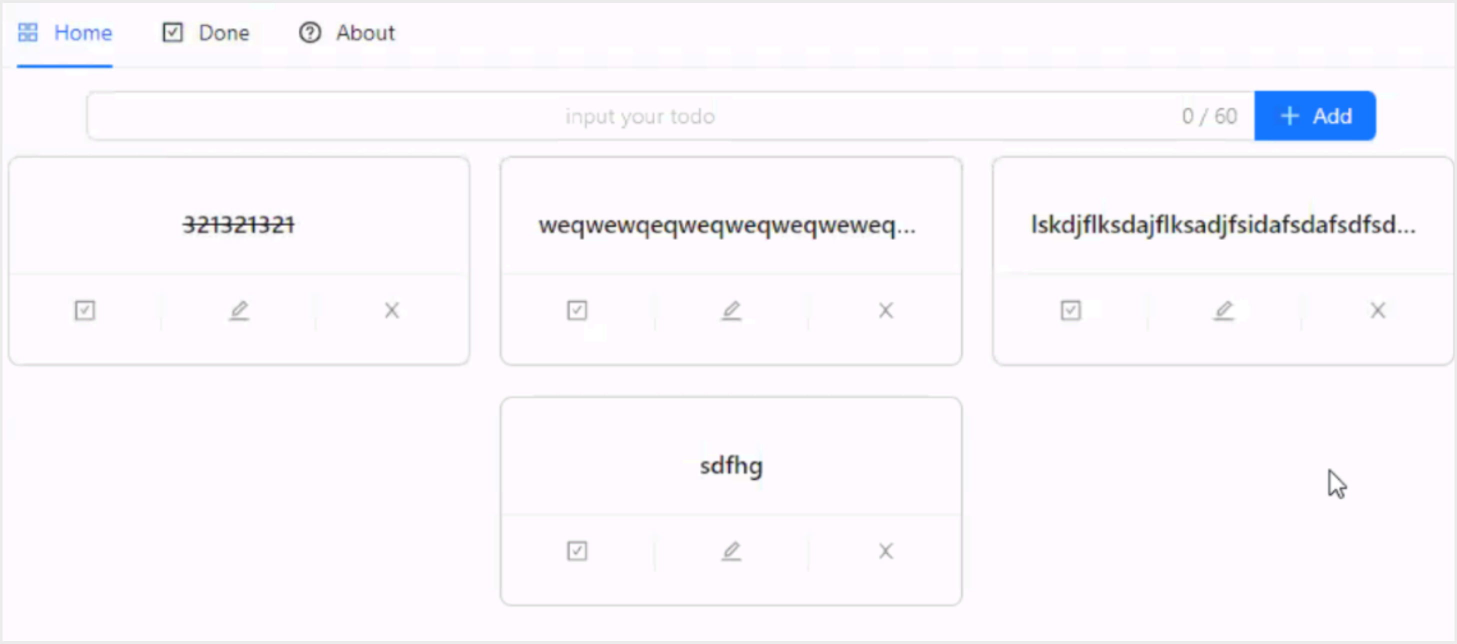
No useless code

No long method

React

123

Marie



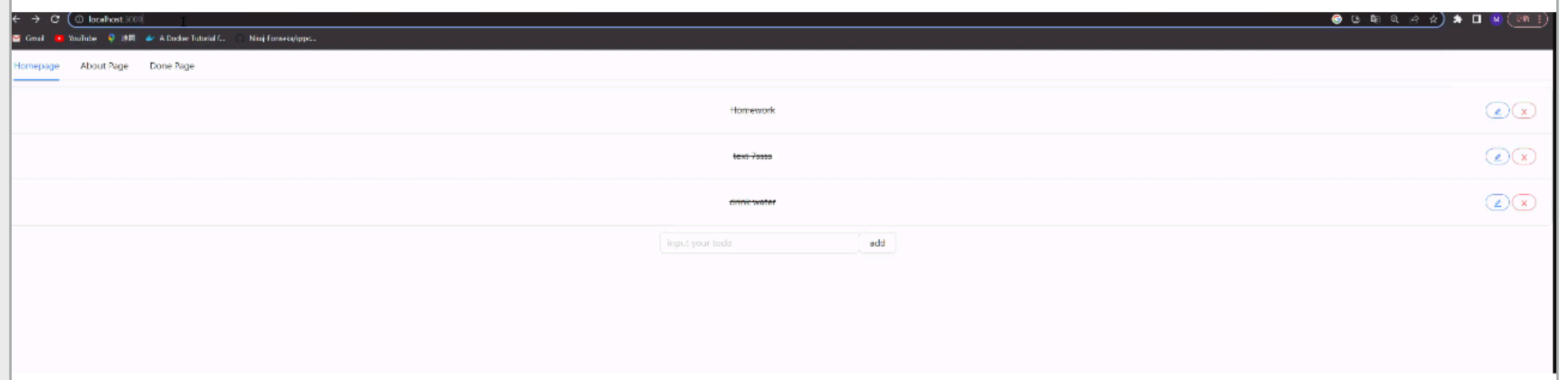
~~321321321~~

weqwewqeqweqweqweqweqweweq...

lskdjflksdajflksadjfsidafsdafsdfsd...

sdfhg

Michael

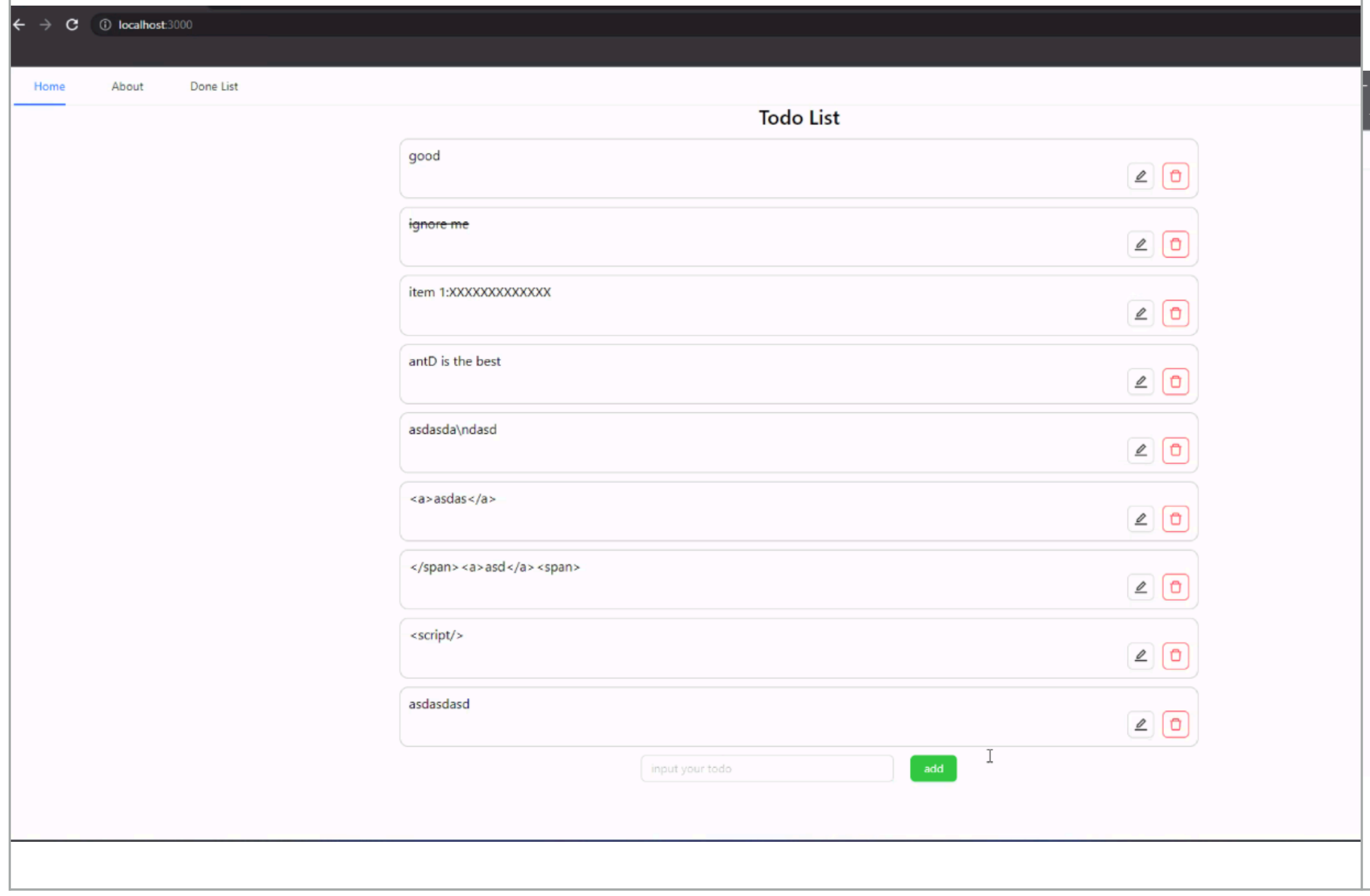


Homework

~~text 7ssss~~

~~drink water~~

Polly



Todo List

good

~~ignore me~~

item 1:XXXXXXXXXXXXX

antD is the best

asdasda\ndasd

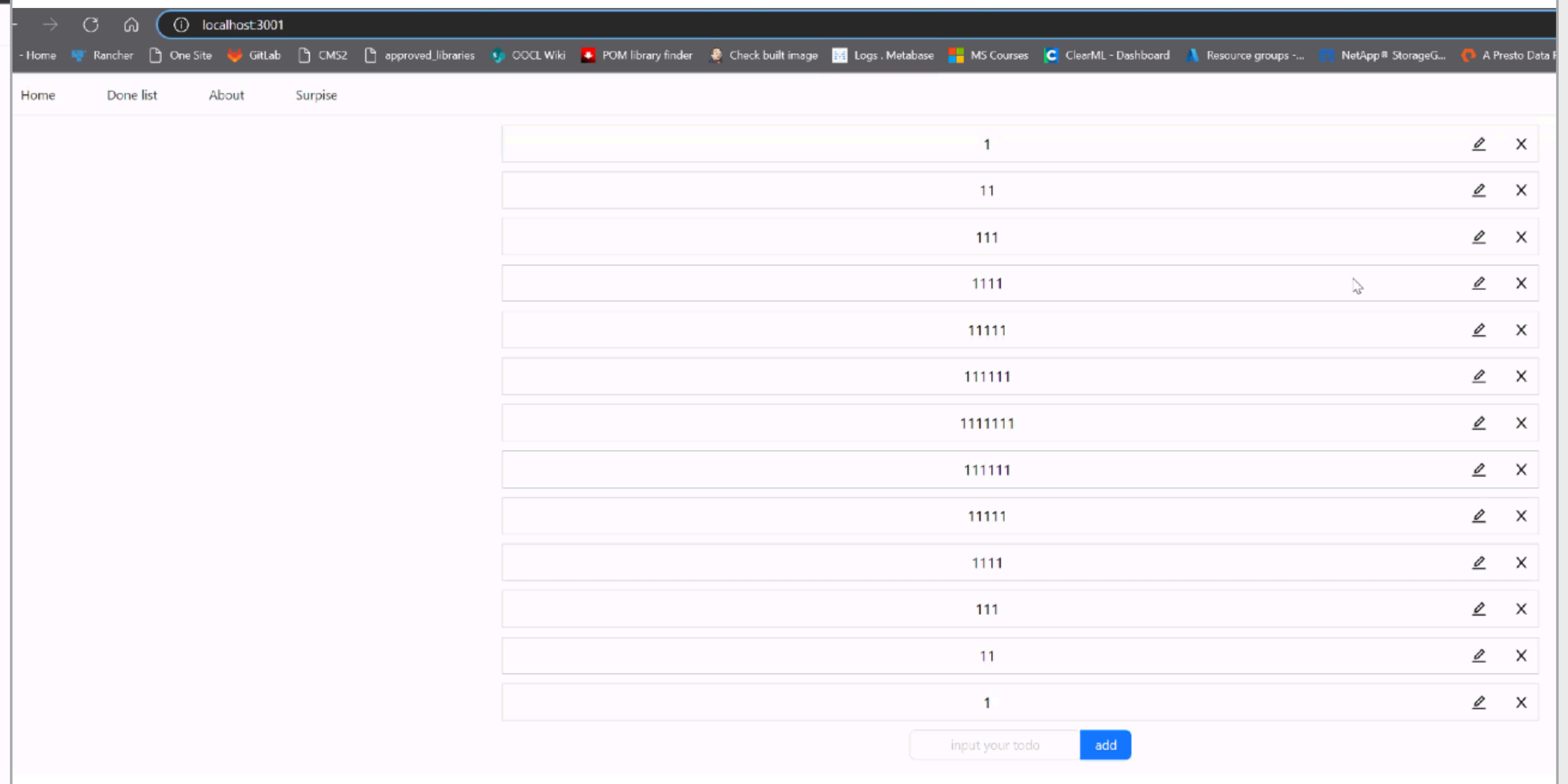
<a>asdas</a>

</span><a>asd</a><span>

<script/>

asdasdasd

Kelvin



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AFS

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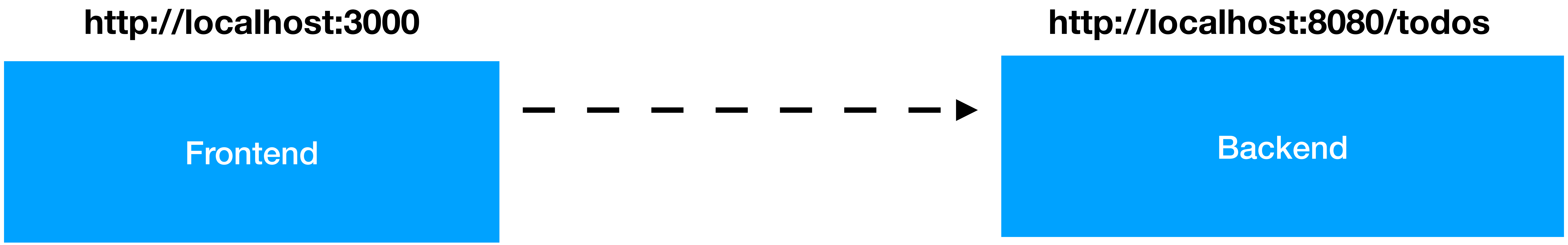
Frontend and Backend Integration

thoughtworks

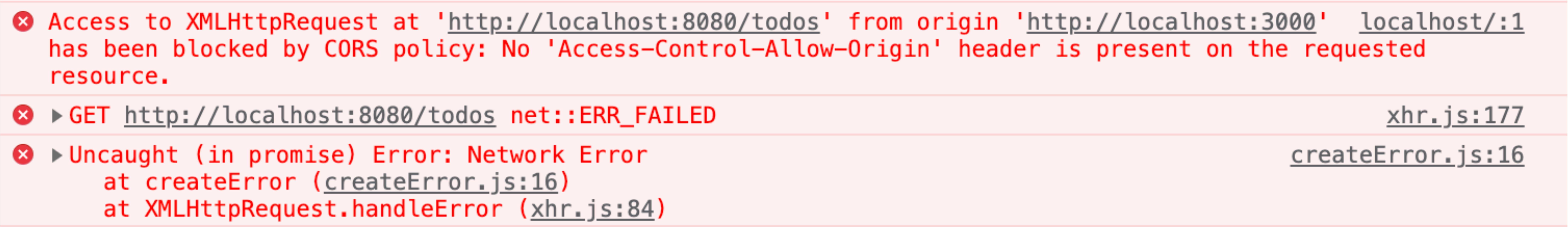


http://localhost:3000

Frontend

http://localhost:8080/todos

Backend



```
ⓧ Access to XMLHttpRequest at 'http://localhost:8080/todos' from origin 'http://localhost:3000'   localhost/:1
  has been blocked by CORS policy: No 'Access-Control-Allow-Origin' header is present on the requested
  resource.
ⓧ ▶GET http://localhost:8080/todos net::ERR_FAILED                                                 xhr.js:177
ⓧ ▶Uncaught (in promise) Error: Network Error                                             createError.js:16
      at createError (createError.js:16)
      at XMLHttpRequest.handleError (xhr.js:84)
```

What is CORS

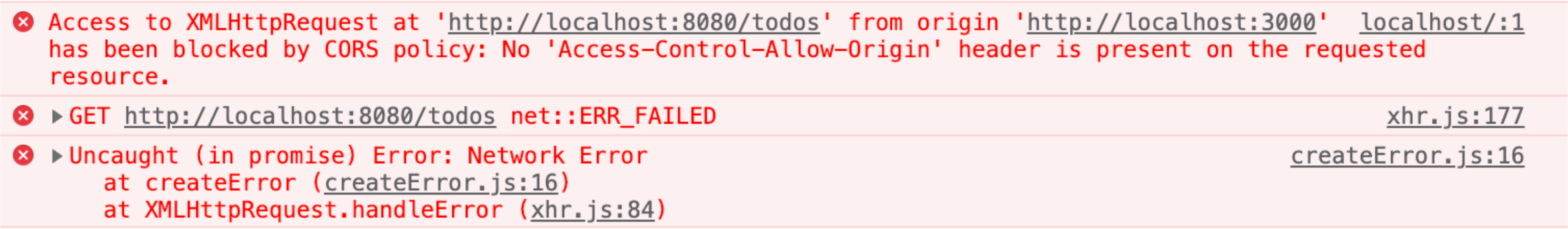
CORS： Cross-Origin Resource Sharing

https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS

What is Origin

Two URLs have the same origin if the **protocol**, **port**, and **domain** are the same for both URLs.

URL 1	URL 2	Same Origin?
https://sample.com	http://sample.com	
https://sample.com	https://sample.com:8080	
https://sample.com	https://sample.com/login	
http://localhost:3000	http://localhost:8080/todos	
https://sample.com	https://www.sample.com	
http://localhost	http://127.0.0.1	



```
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has been blocked by CORS policy: No 'Access-Control-Allow-Origin' header is present on the requested
resource.
▶GET http://localhost:8080/todos net::ERR_FAILED                                                 xhr.js:177
▶Uncaught (in promise) Error: Network Error                                              createError.js:16
    at createError (createError.js:16)
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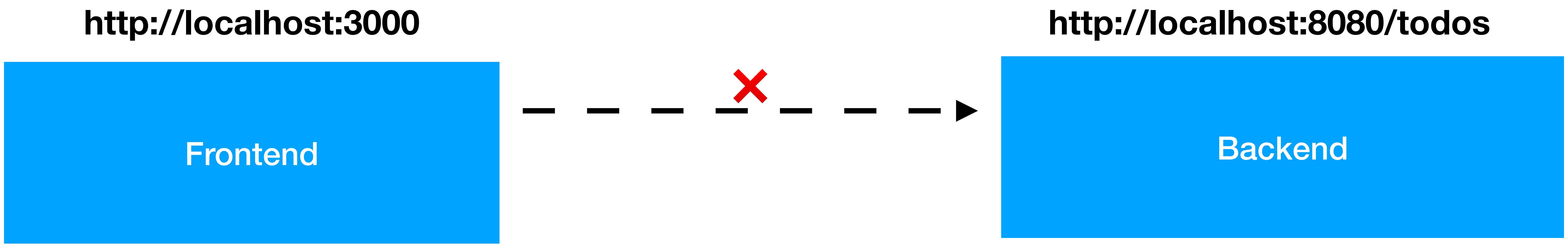

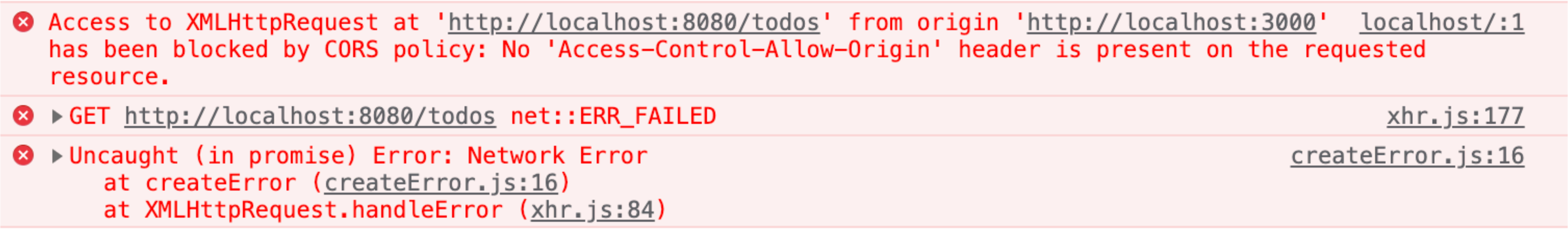

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▶Uncaught (in promise) Error: Network Error                                            createError.js:16
    at createError (createError.js:16)
    at XMLHttpRequest.handleError (xhr.js:84)
```

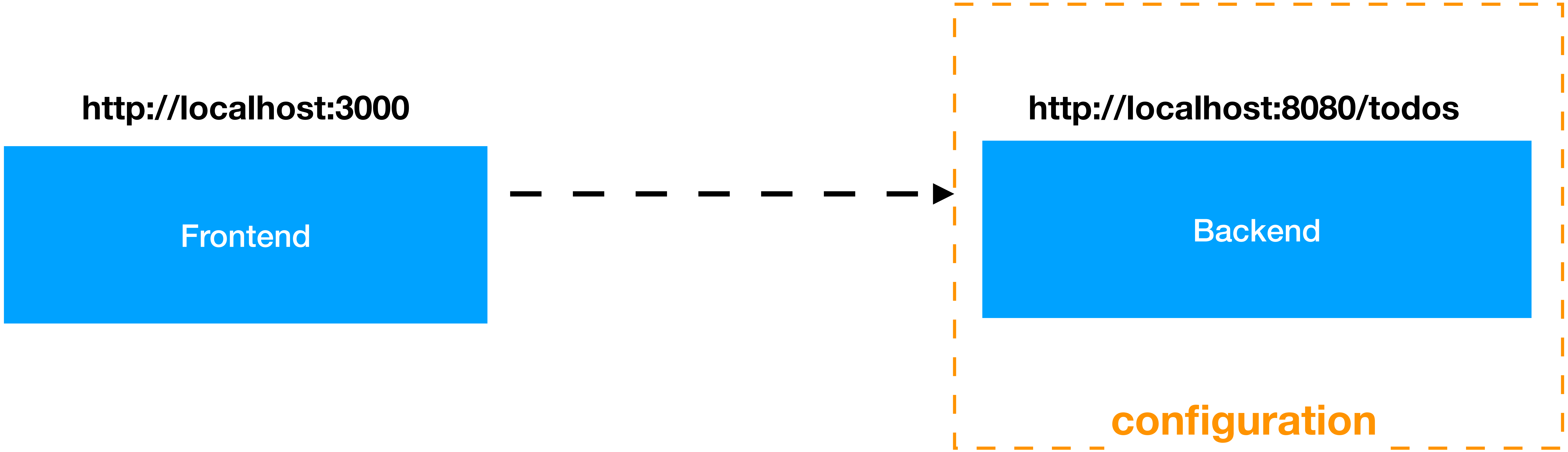

configuration
enable CORS

Enable CORS in Spring Boot

1, @CrossOrigin on a @RequestMapping-Annotated Handler Method

2, *@CrossOrigin* on the Controller

3, Global CORS Configuration using WebMvcConfigurer

https://spring.io/guides/gs/rest-service-cors/#global-cors-configuration

Practice

Implementation on todolist

Requirement:

- Spring boot project
- Using MongoDB
- Three Layers:
  - Controller
  - Service
  - Repository
- API Test (Integration Test)

Feature1: get all todo items

1. finish GET API in backend
2. call GET API in frontend

Feature2: add one todo item

1. finish POST API in backend
2. call POST API in frontend

Feature3: update one todo item

1. finish PUT API in backend
2. call PUT API in frontend

Feature4: delete one todo item

1. finish delte API in backend
2. call delete API in frontend

Frontend Summary

What have we learned about Frontend ?

1. Should at least contain the following concepts: react, react-redux, react-router, axios, antDesign
2. Do it in group.
3. Using concept map

Time box: 40minutes drawing