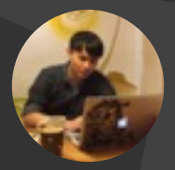
Intro to ReactJS

ReactJS Bangkok 1.0.0



Wasit Jingjit
Co-Founder & Developer @Storylog

Wasit Jingjit

Co-Founder & Developer
at Storylog

Email: wasit@storylog.co
facebook: fb.com/buffalo660
storylog: storylog.co/buf

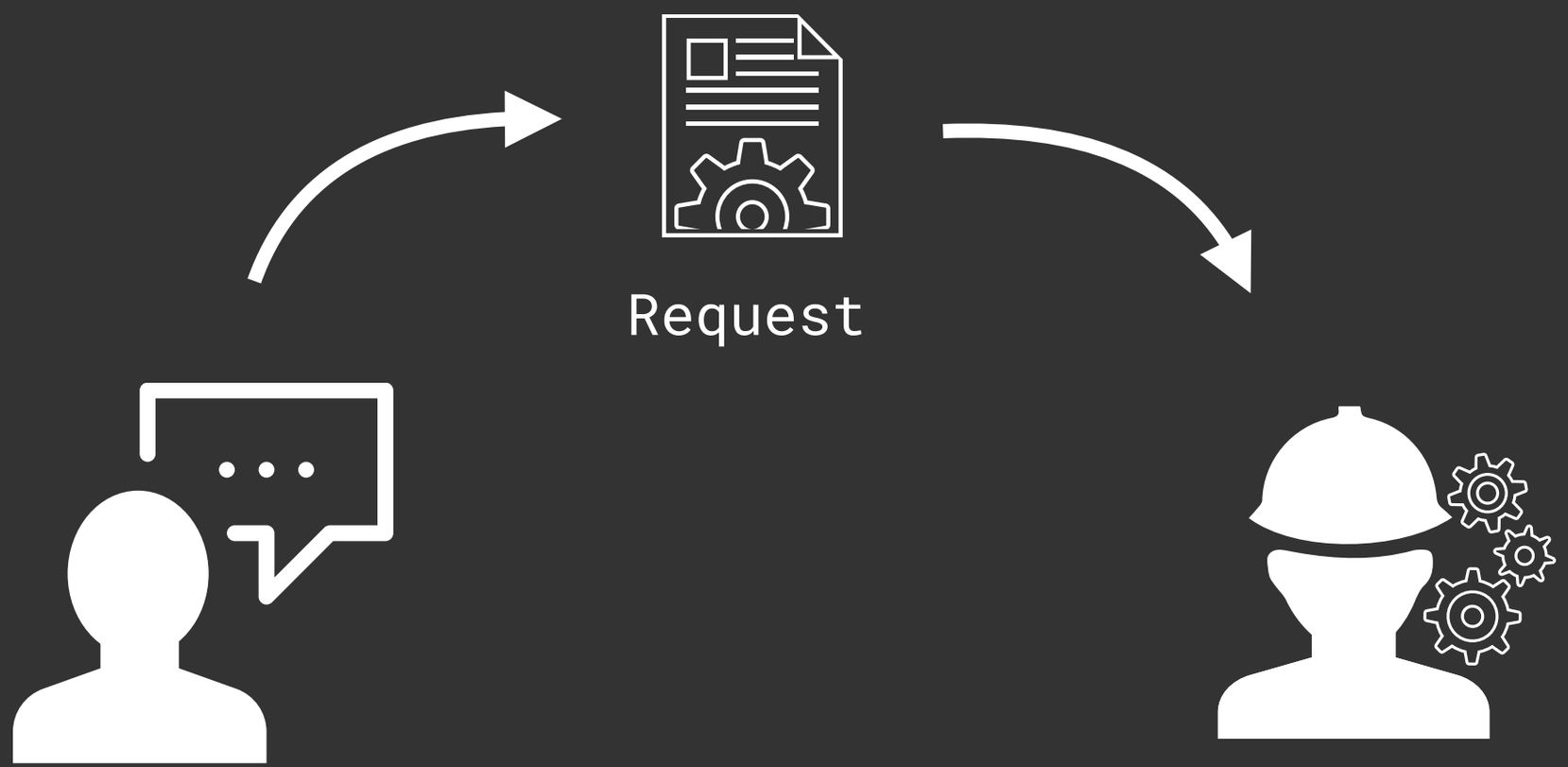
```
// Github intro-react-bkk
https://github.com/buffaly/intro-react-bkk-1.0.0
```

How website works?

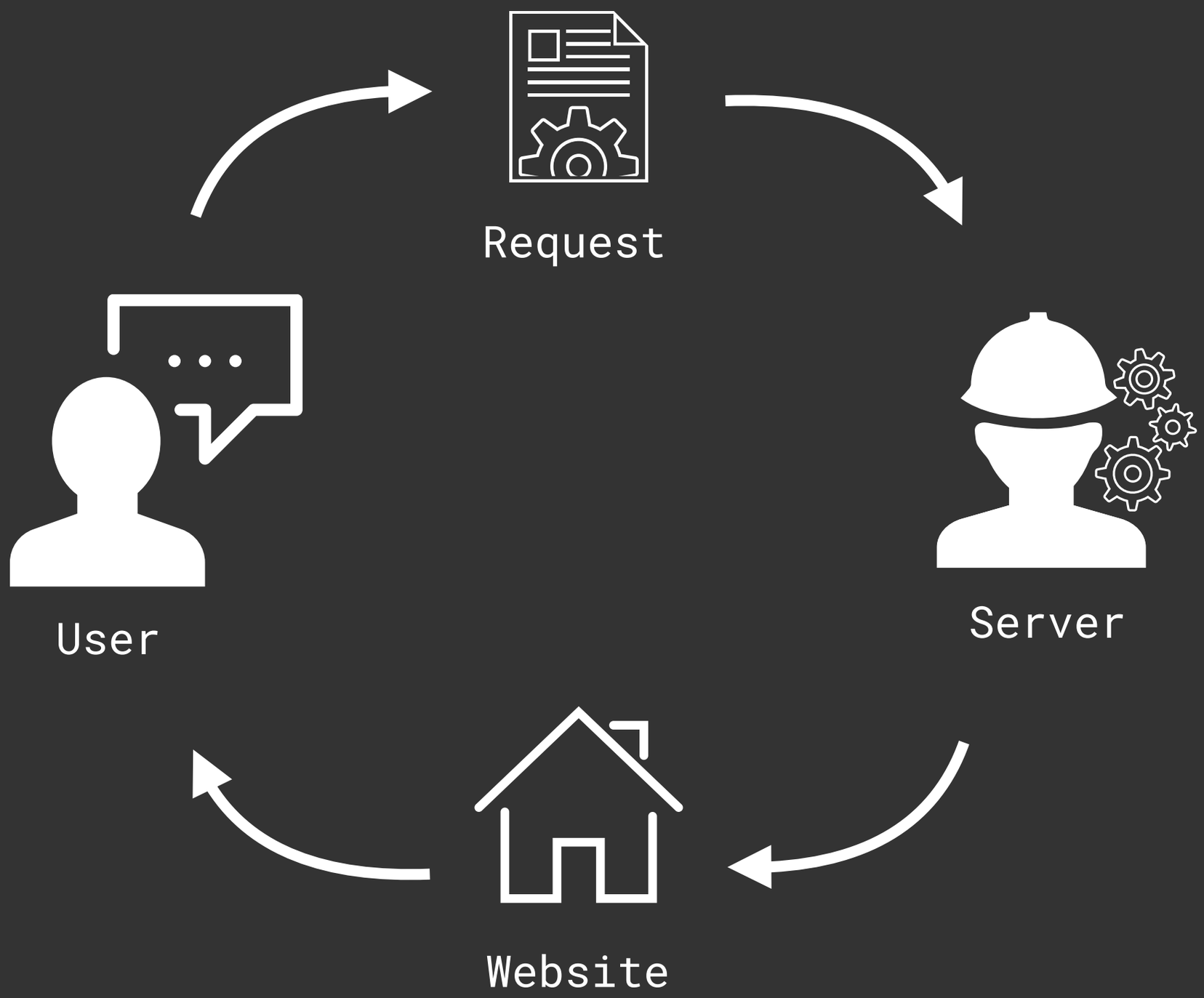
User

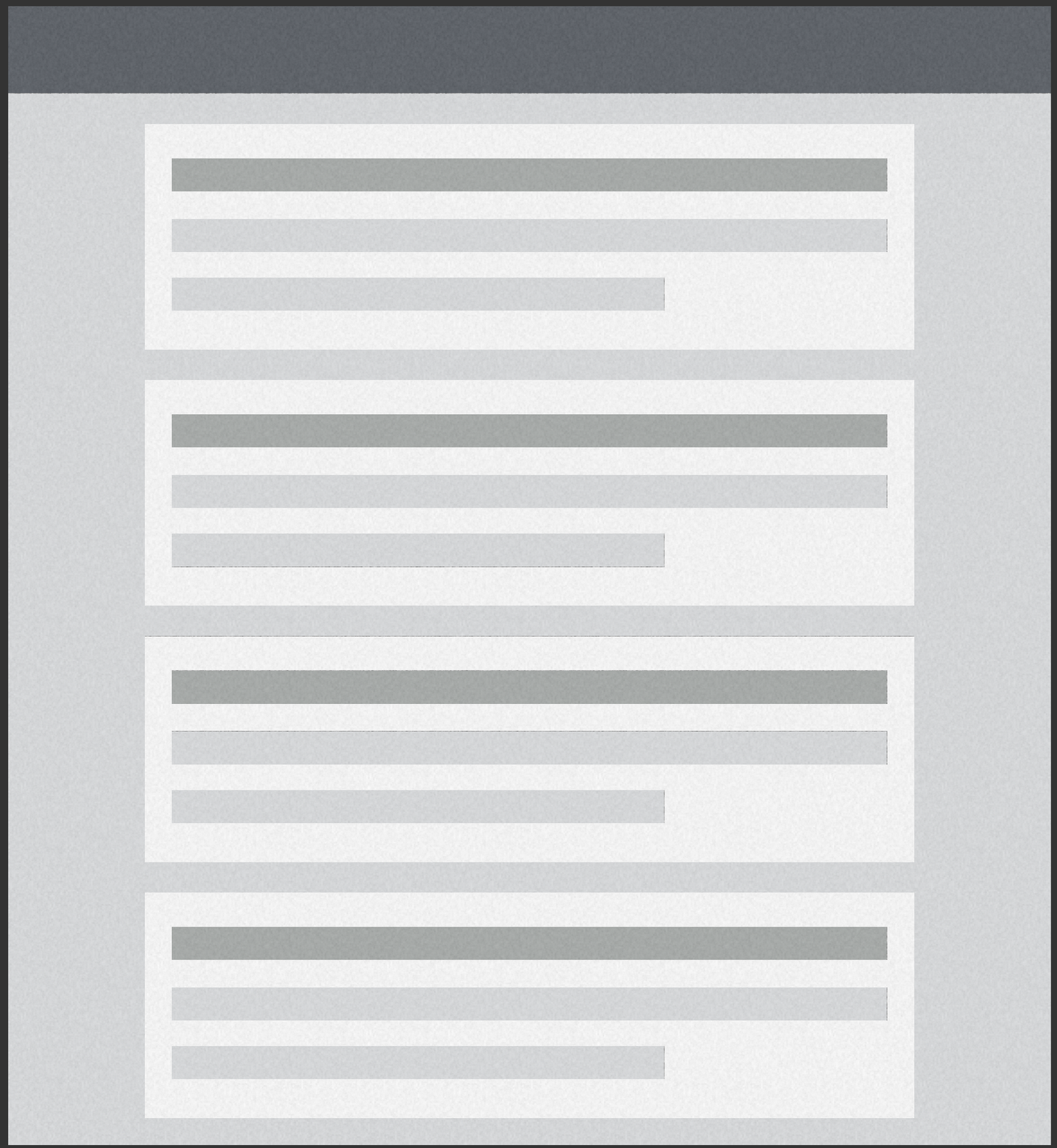
User

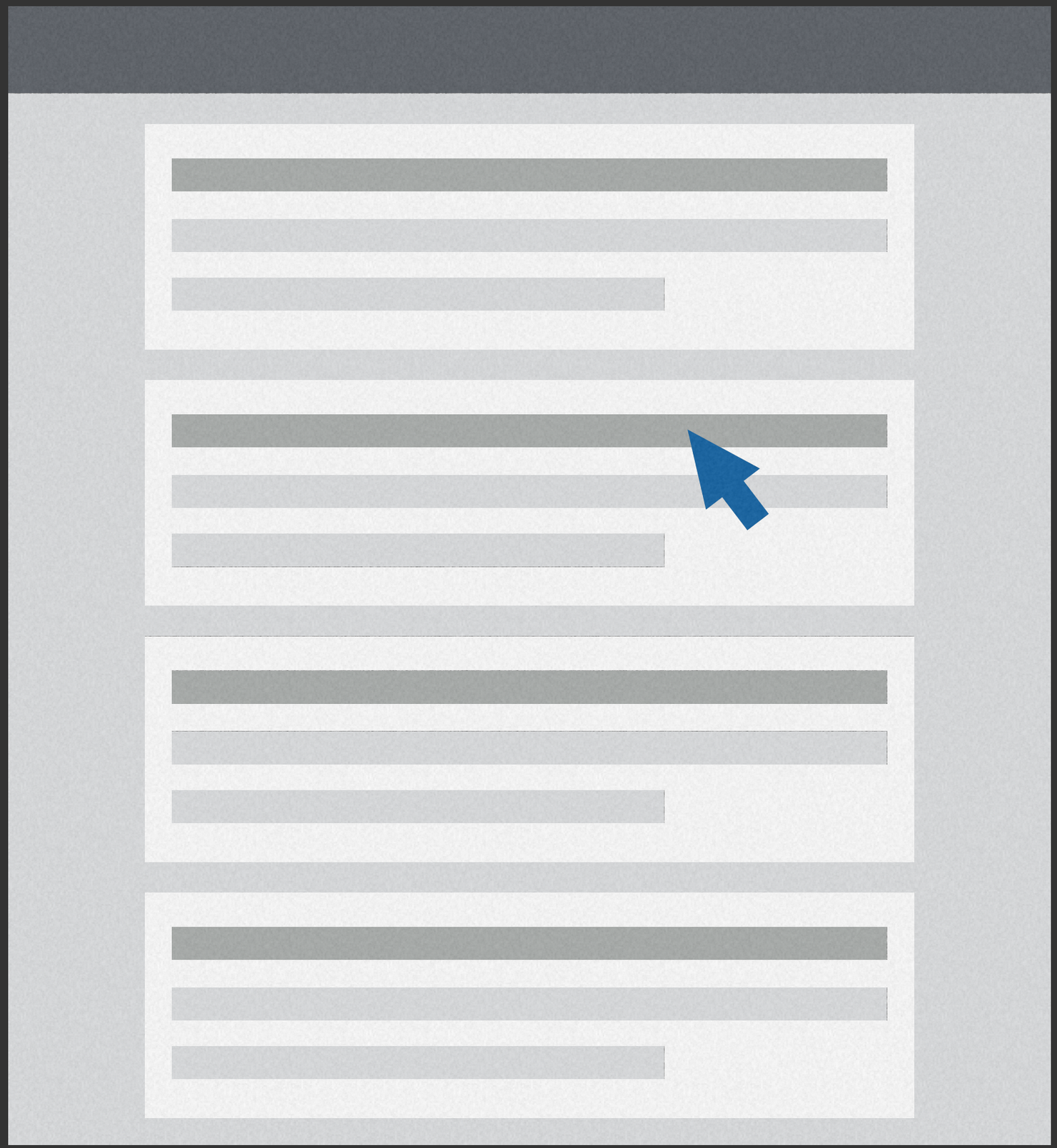
Server

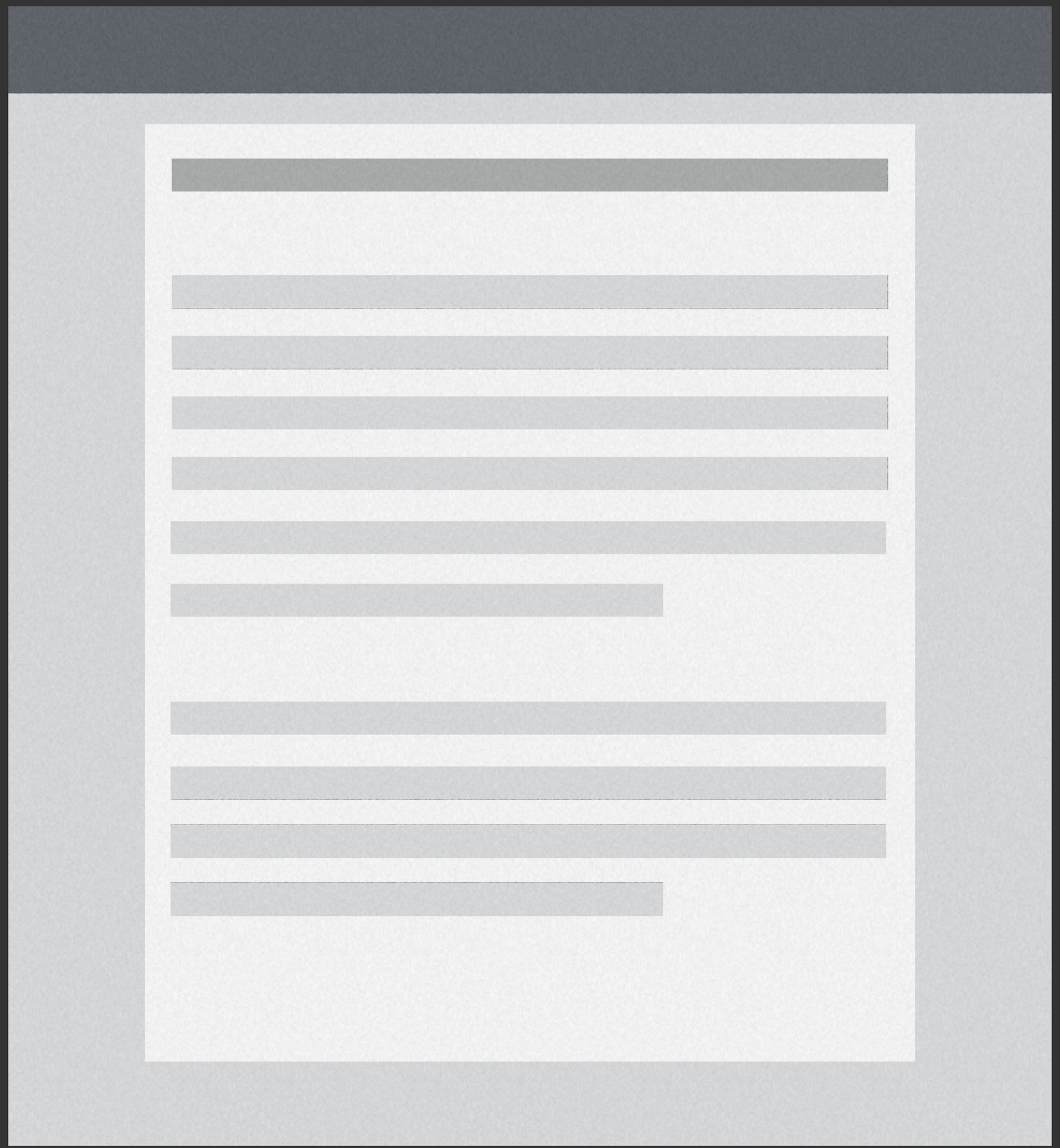

Request
User
Server

User
Server
Website


Request
User
Server
Website







What is SPA?

Single **P**age **A**pplication

User

Server

User

Request

Server

User

Server

User

Website

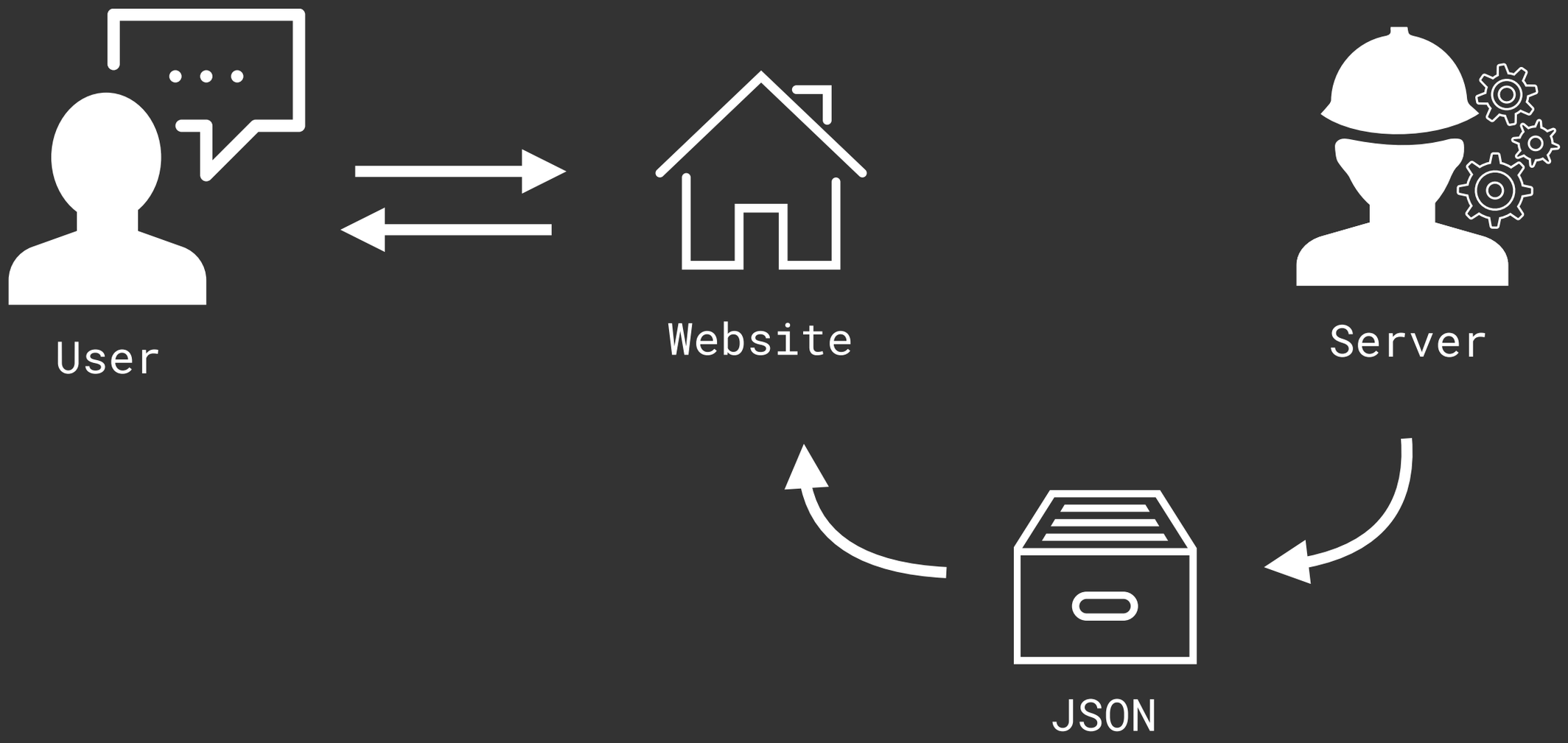
Server

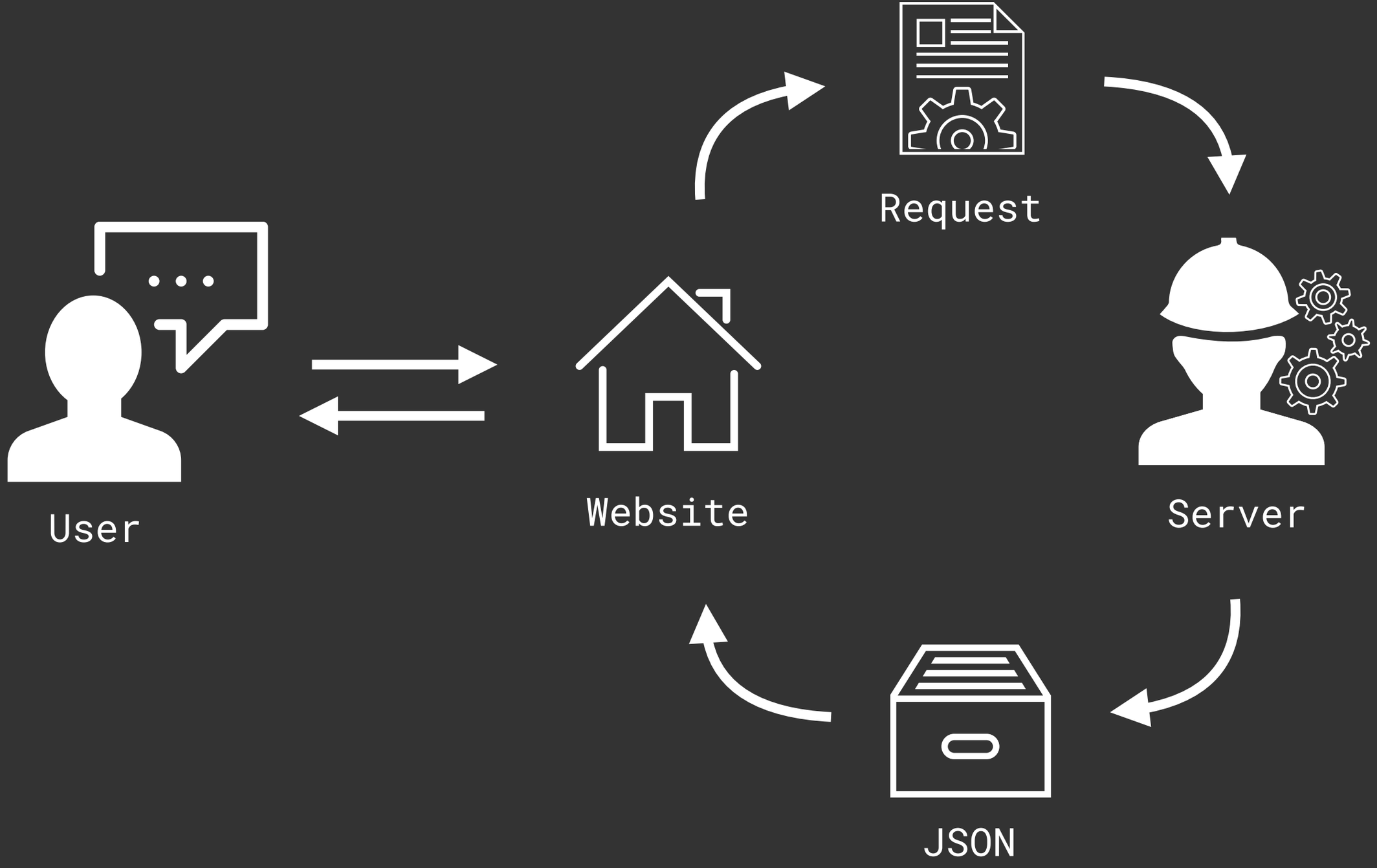
User

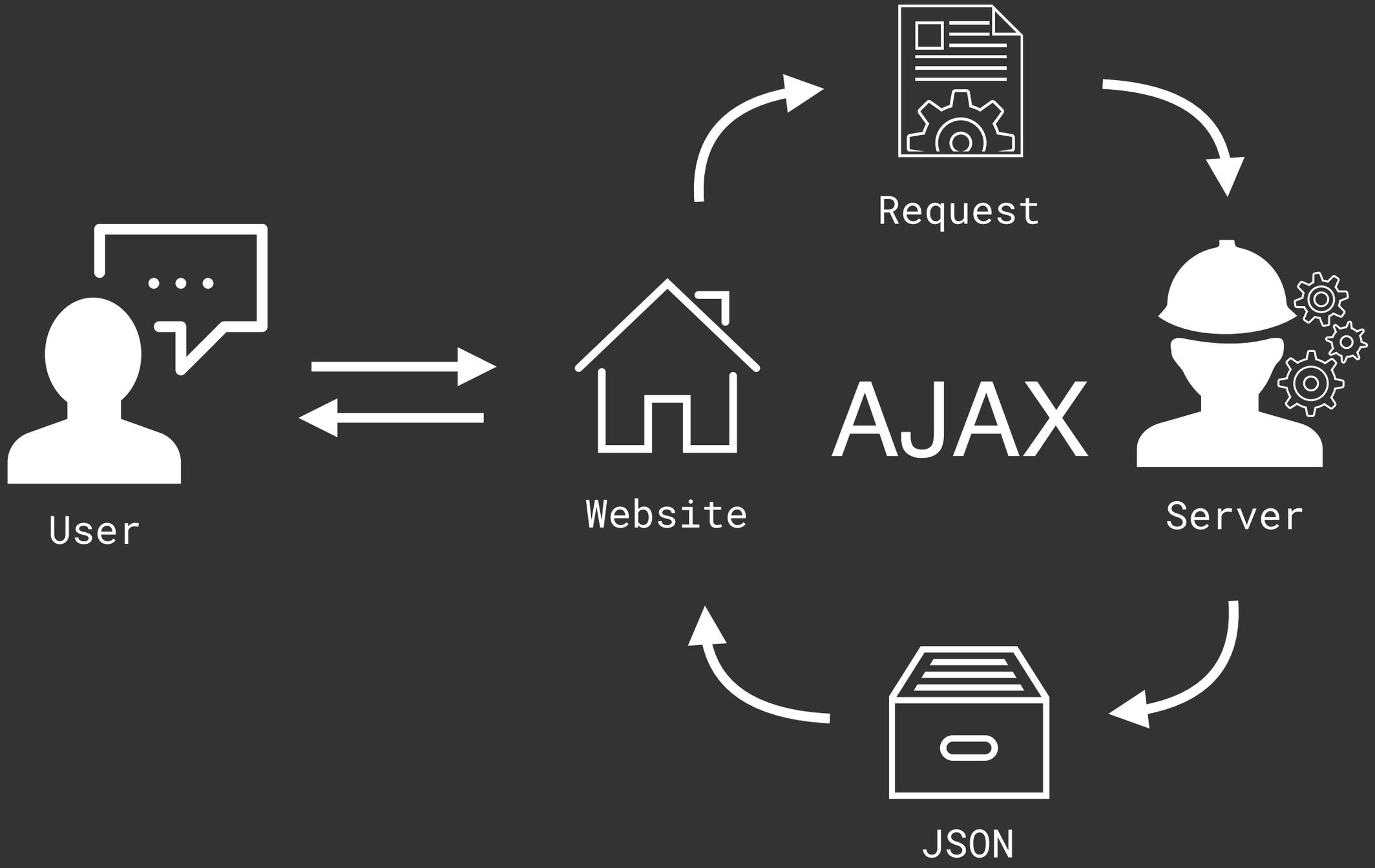
Website

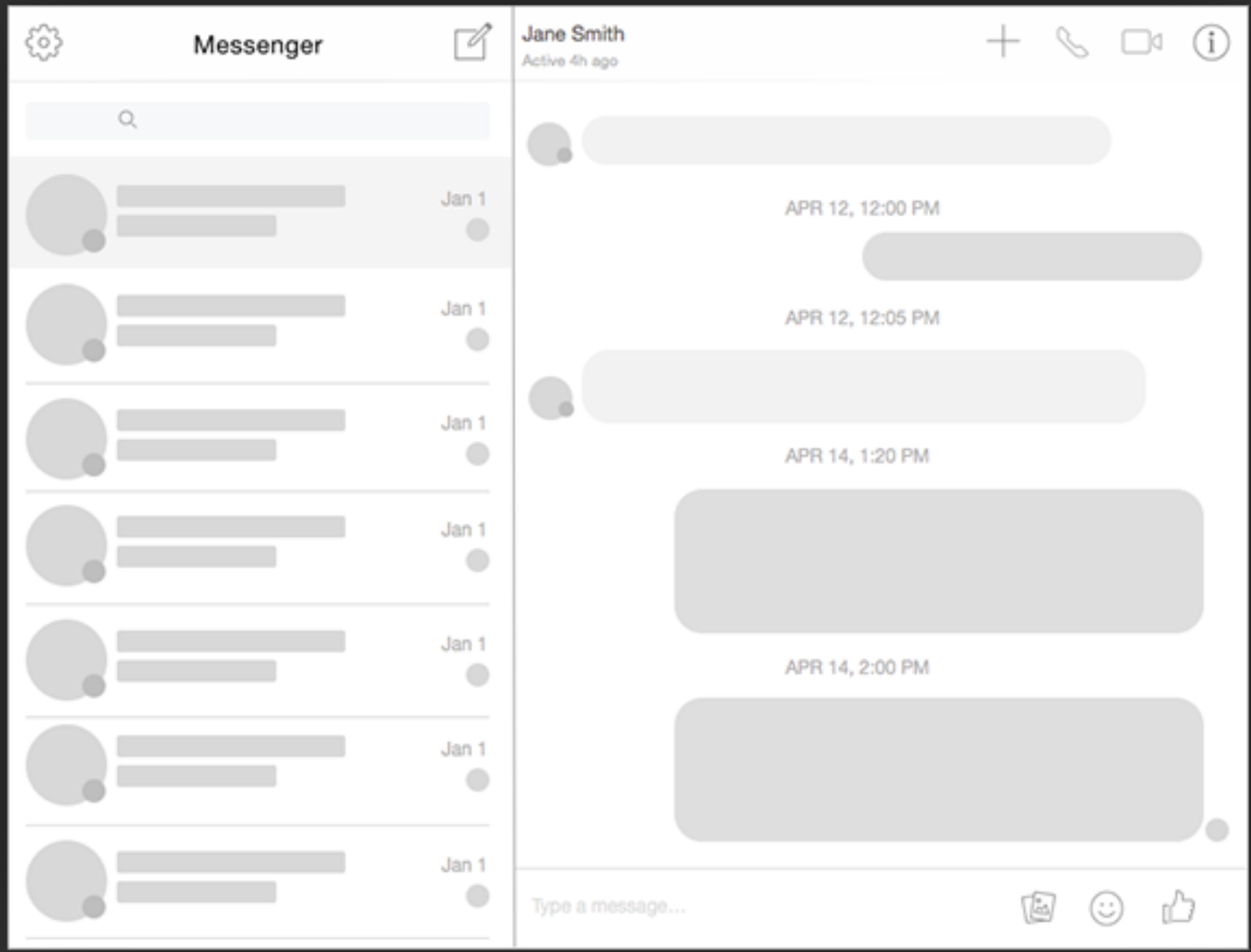
Server

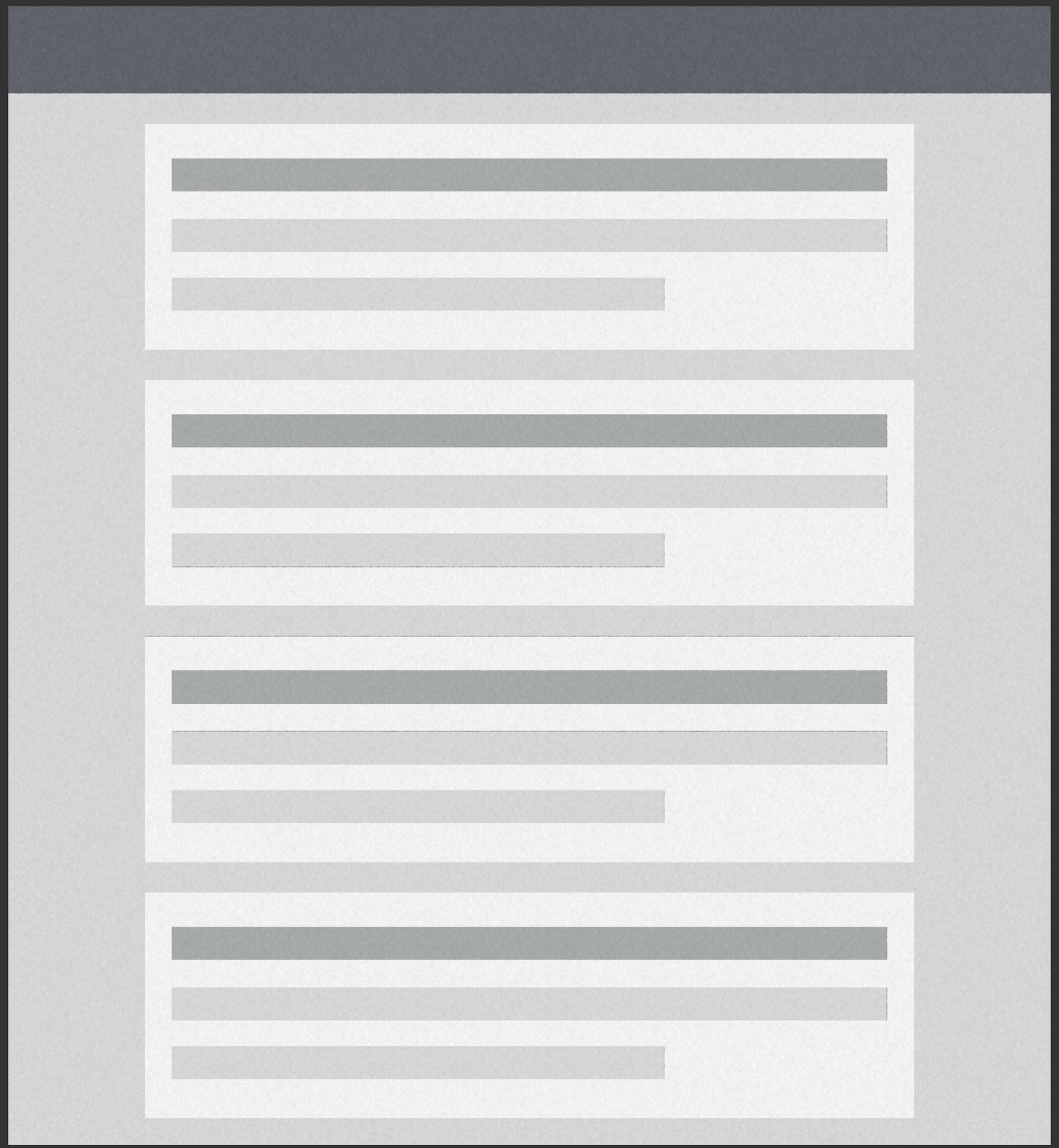
Request
User
Website
Server

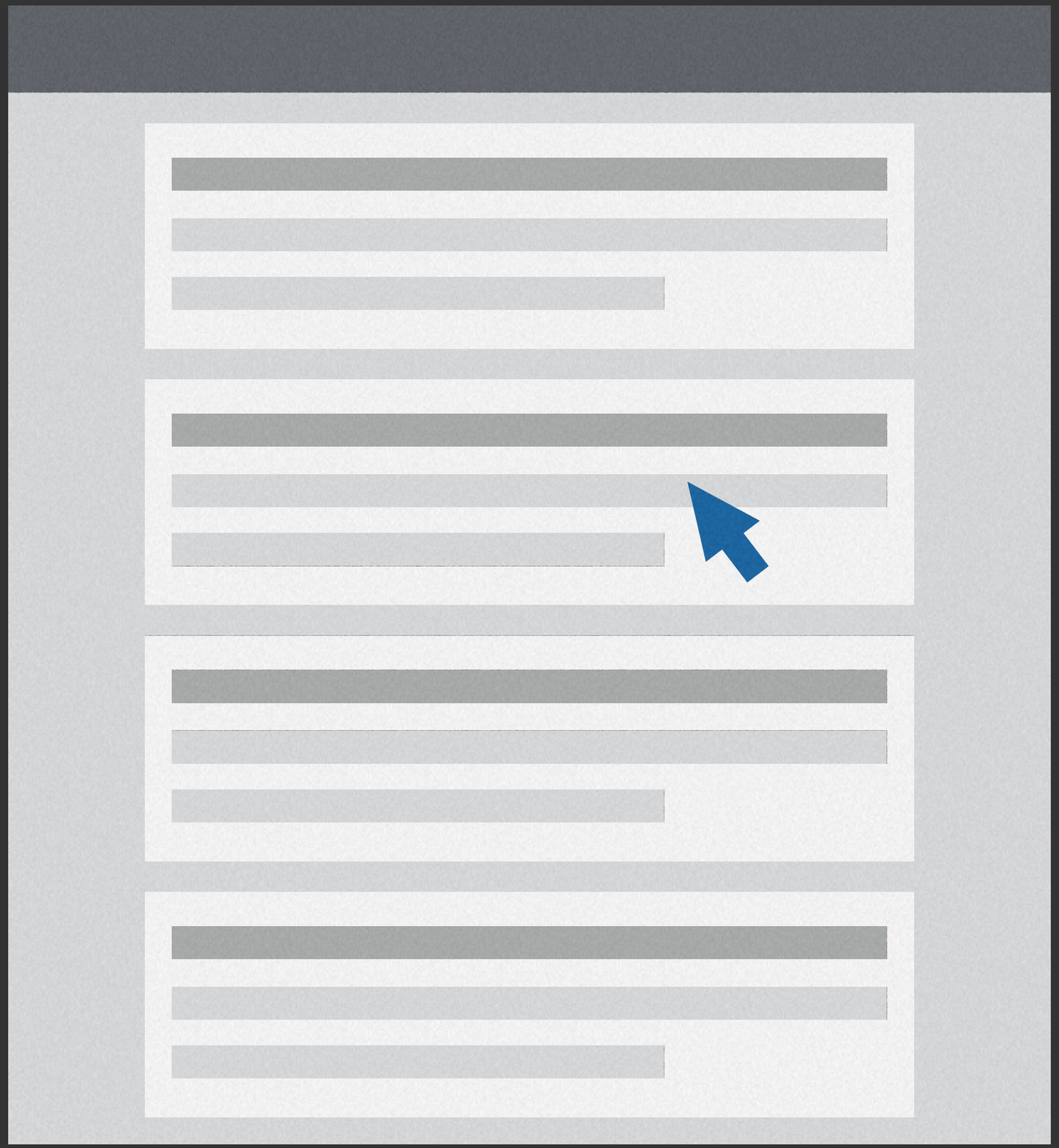

User
Website
Server
JSON

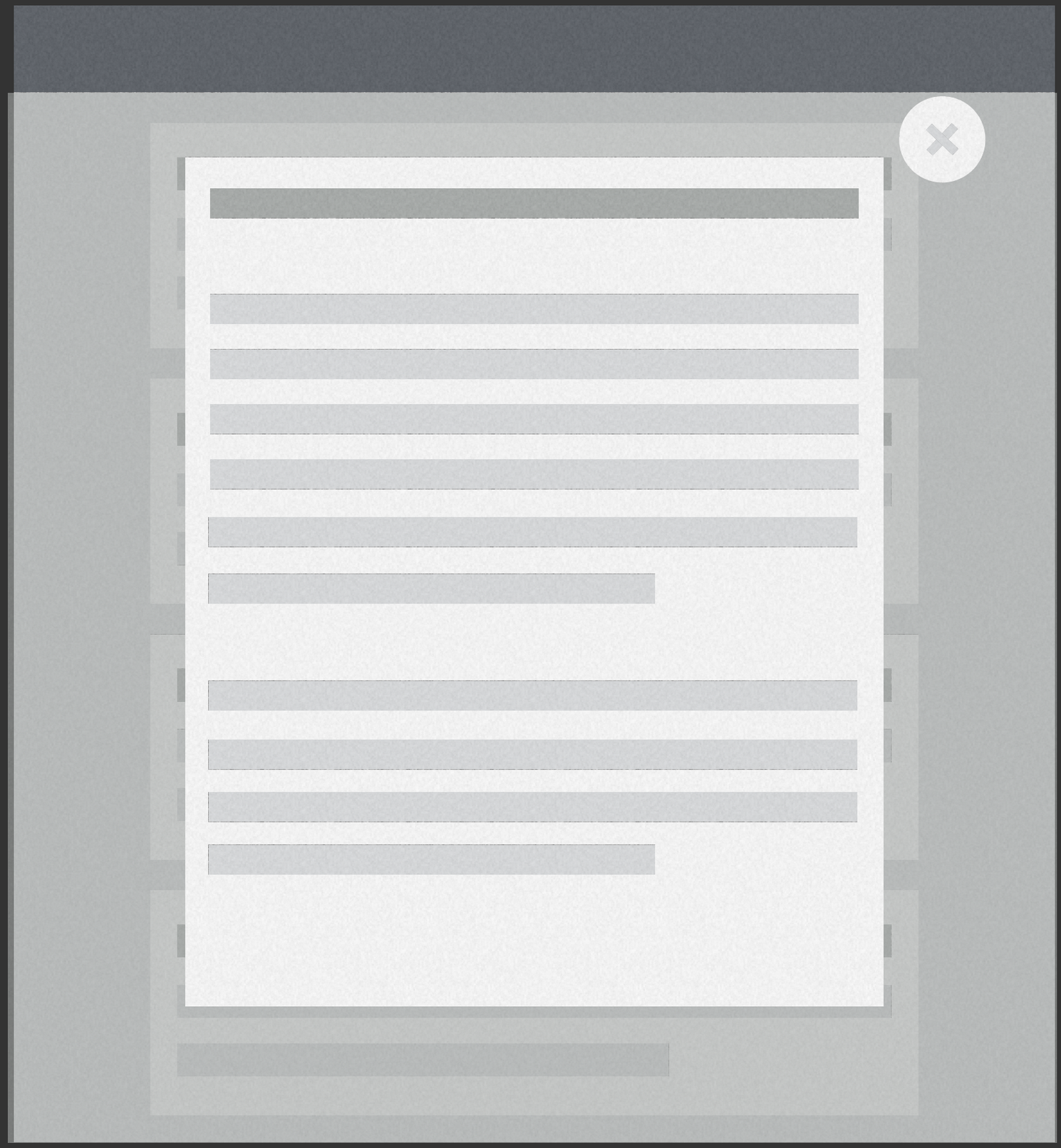

Request
User
Website
Server
JSON

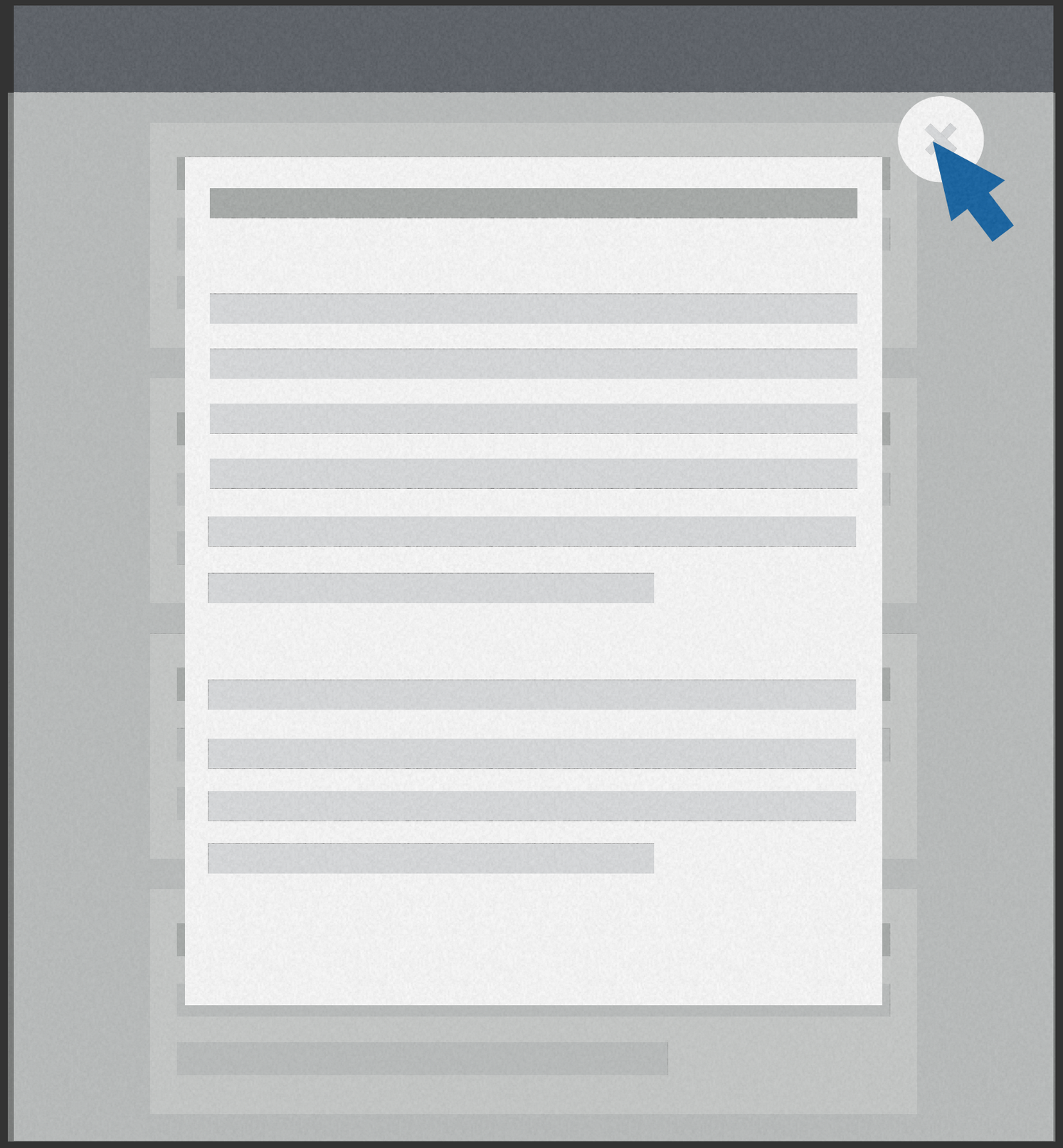

Request
AJAX
User
Website
Server
JSON

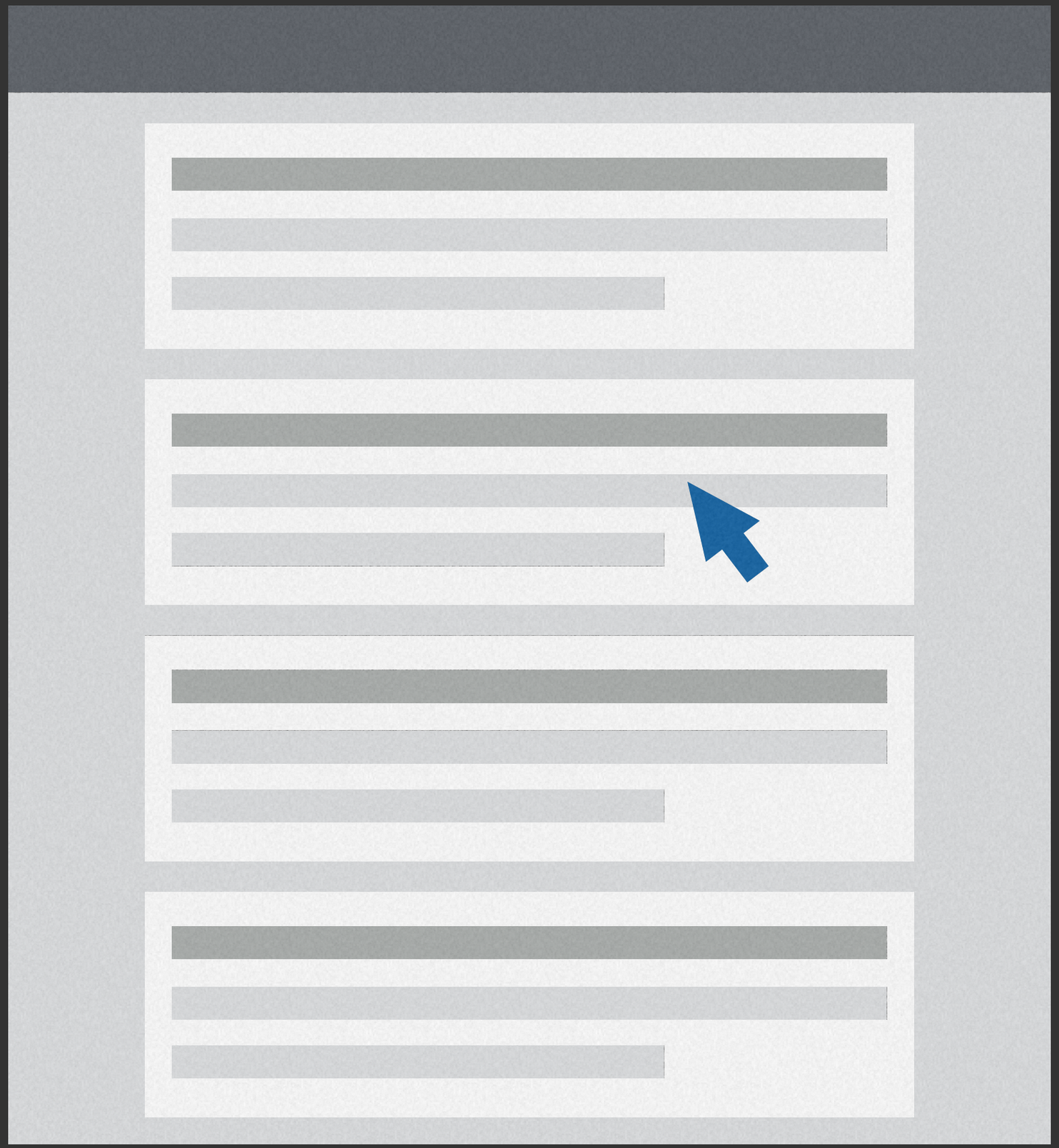

Messenger
Jan 1
Jan 1
Jan 1
Jan 1
Jan 1
Jan 1
Jane Smith
Active 4h ago
APR 12, 12:00 PM
APR 12, 12:05 PM
APR 14, 1:20 PM
APR 14, 2:00 PM
Type a message...



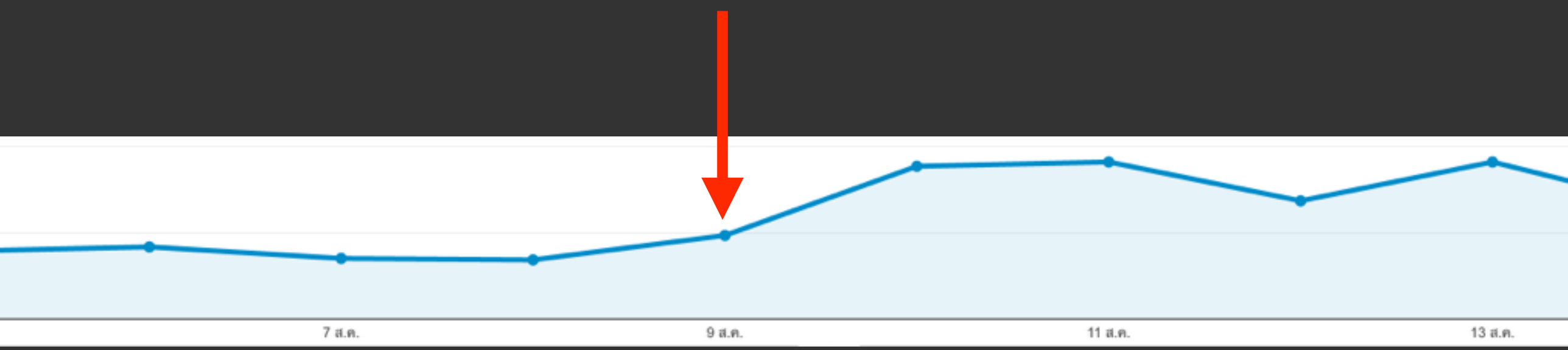








Start using SPA



Average Session Duration

Start using SPA

Average Session Duration

+200%

jQuery

BACKBONE.JS

ember

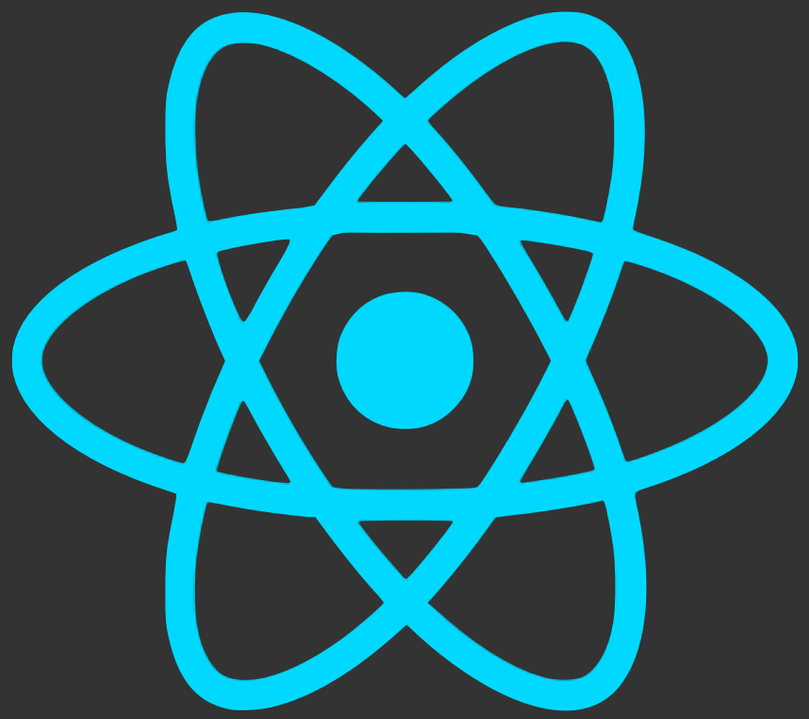
aurelia

METEOR

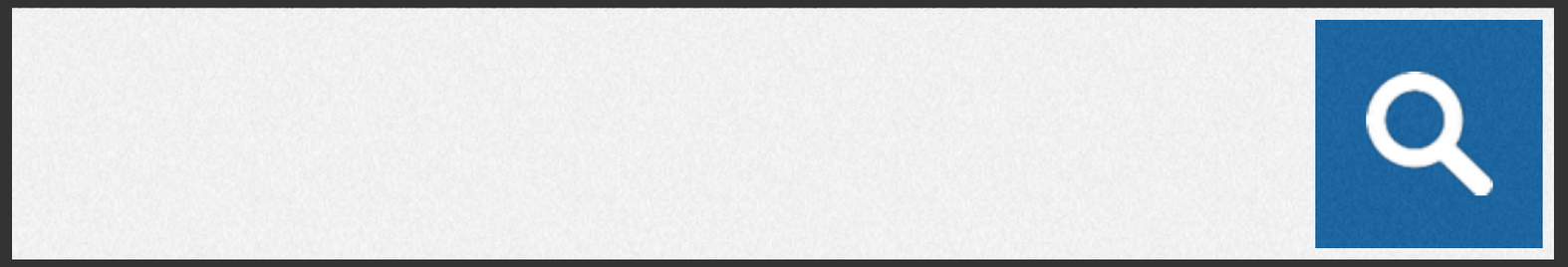
Knockout.

ANGULARJS
by Google

polymer



ReactJS



Result

Result

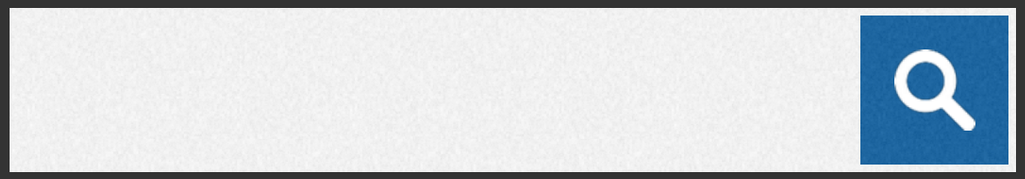
Result 1

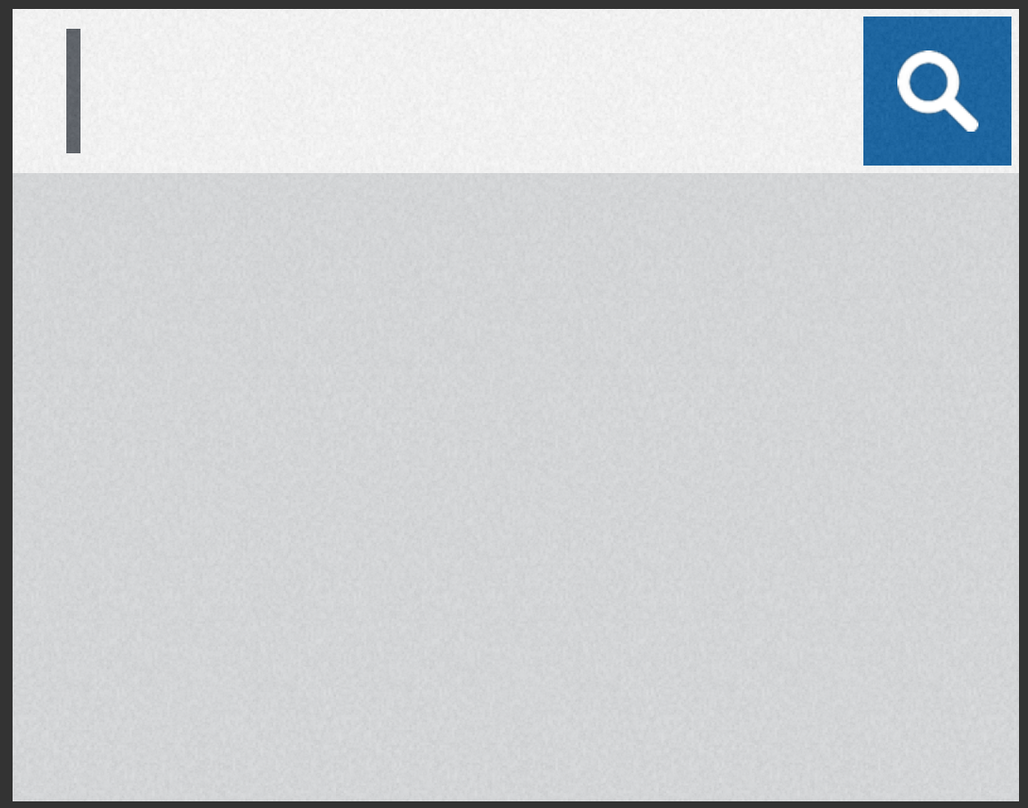
Result 2

Result 3

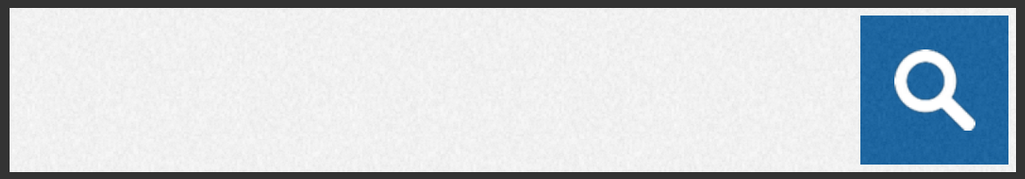
Result 4

jQuery

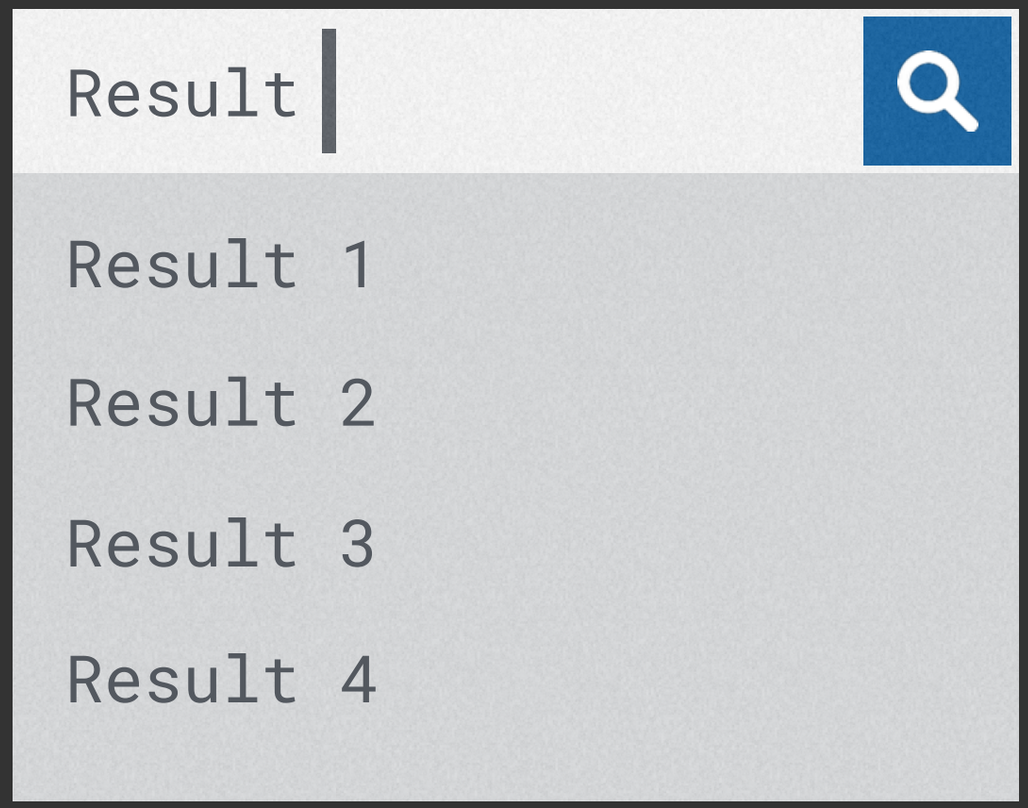




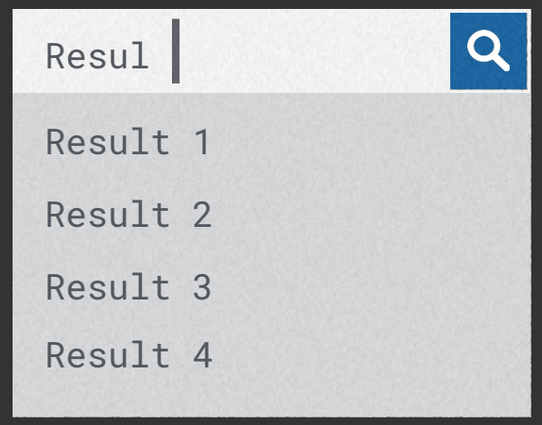
```
$(“#dropdown”).focus(function () {
  $(“#search_result”).show();
});
```

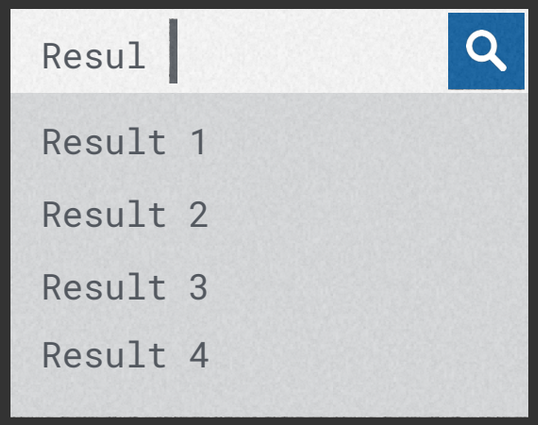


```
$(“#dropdown”).focus(function () {
  $(“#search_result”).show();
});

$(“#dropdown”).blur(function () {
  $(“#search_result”).hide();
});
```

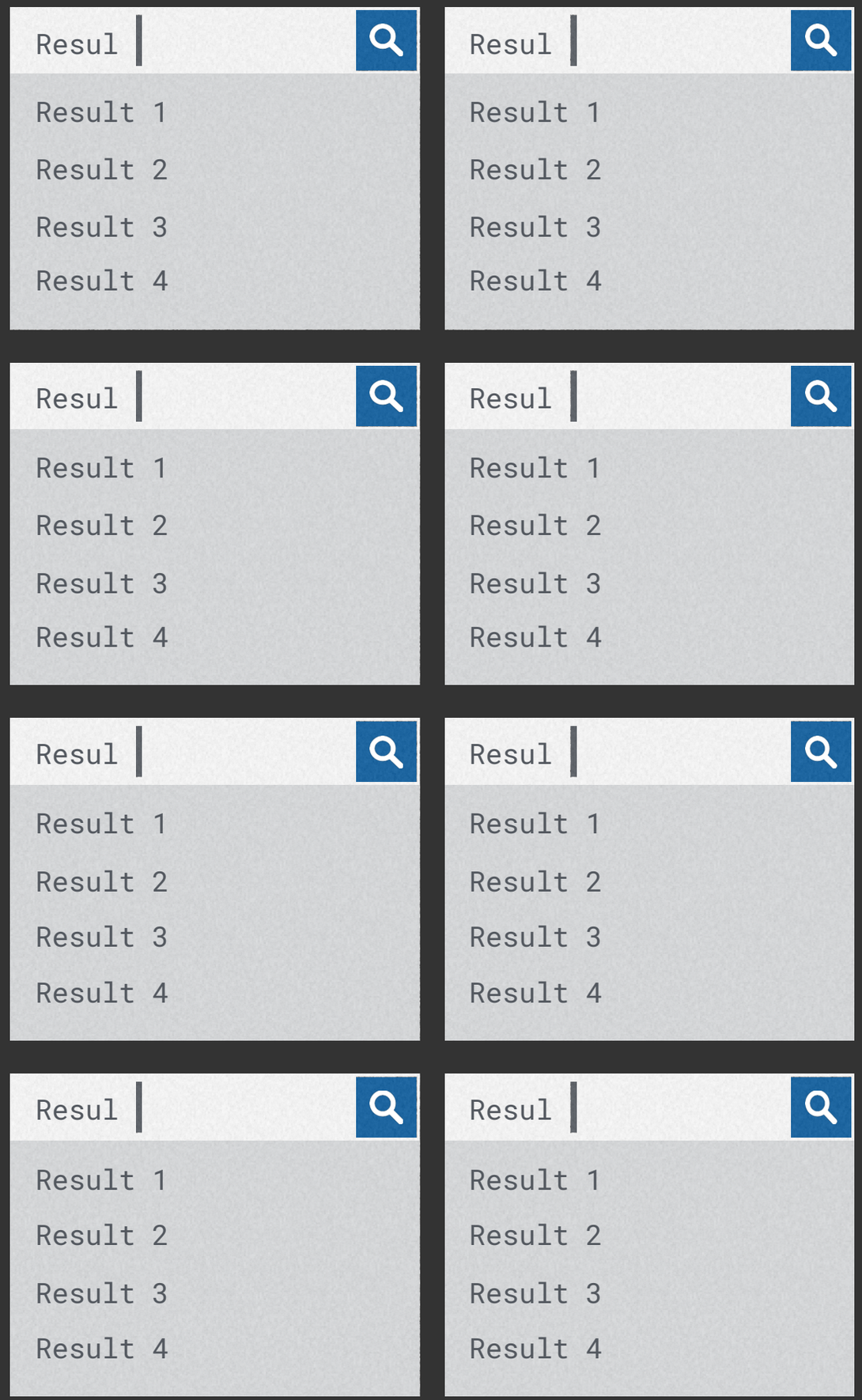



```
$(“#dropdown”).focus(function () {
  $(“#search_result”).show();
});

$(“#dropdown”).blur(function () {
  $(“#search_result”).hide();
});

$(“#dropdown”).on(“change”, function () {
  ...
});
```



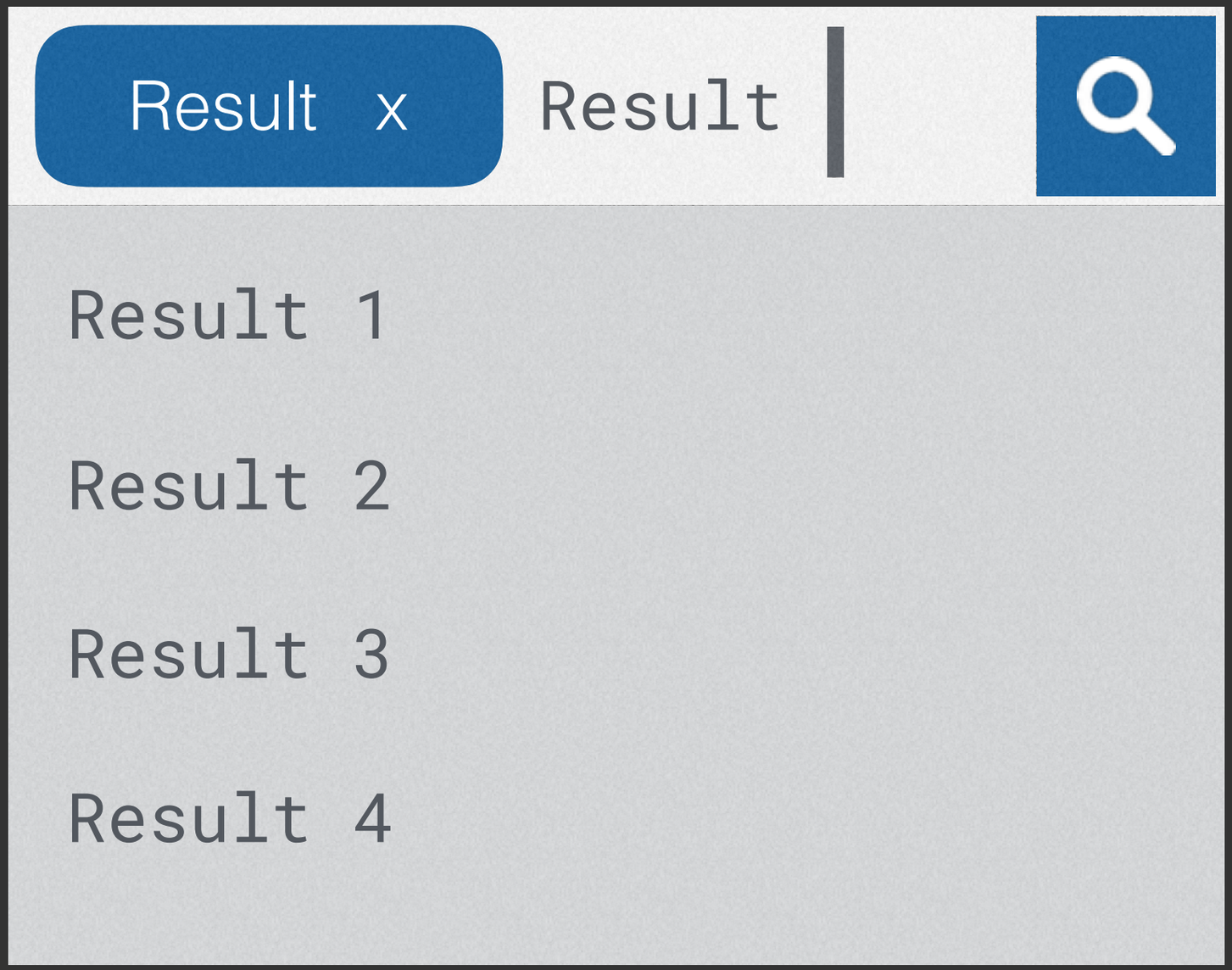



```
$("#dropdown").focus(function () {
  $("#search_result").show();
});
$("#dropdown").blur(function () {
  $("#search_result").hide();
});
$("#dropdown").on("change", function () {
  ...
});

$("#dropdown2").focus(function () {
  $("#search_result").show();
});
$("#dropdown2").blur(function () {
  $("#search_result").hide();
});
$("#dropdown2").on("change", function () {
  ...
});
```




```
$("#dropdown").focus(function () {
    $("#search_result").show();
});

$("#dropdown").blur(function () {
    $("#search_result").hide();
});

$("#dropdown").on("change", function () {
    ...
});
$("#dropdown2").focus(function () {
    $("#search_result").show();
});

$("#dropdown2").blur(function () {
    $("#search_result").hide();
});

$("#dropdown2").on("change", function () {
    ...
});
$("#dropdown3").focus(function () {
    $("#search_result").show();
});

$("#dropdown3").blur(function () {
    $("#search_result").hide();
});

$("#dropdown3").on("change", function () {
    ...
});
$("#dropdown4").focus(function () {
    $("#search_result").show();
});

$("#dropdown4").blur(function () {
    $("#search_result").hide();
});

$("#dropdown4").on("change", function () {
    ...
});
```

```
$("#dropdown").focus(function () {
    $("#search_result").show();
});

$("#dropdown").blur(function () {
    $("#search_result").hide();
});

$("#dropdown").on("change", function () {
    ...
});
$("#dropdown2").focus(function () {
    $("#search_result").show();
});

$("#dropdown2").blur(function () {
    $("#search_result").hide();
});

$("#dropdown2").on("change", function () {
    ...
});
$("#dropdown3").focus(function () {
    $("#search_result").show();
});

$("#dropdown3").blur(function () {
    $("#search_result").hide();
});

$("#dropdown3").on("change", function () {
    ...
});
$("#dropdown4").focus(function () {
    $("#search_result").show();
});

$("#dropdown4").blur(function () {
    $("#search_result").hide();
});

$("#dropdown4").on("change", function () {
    ...
});
```

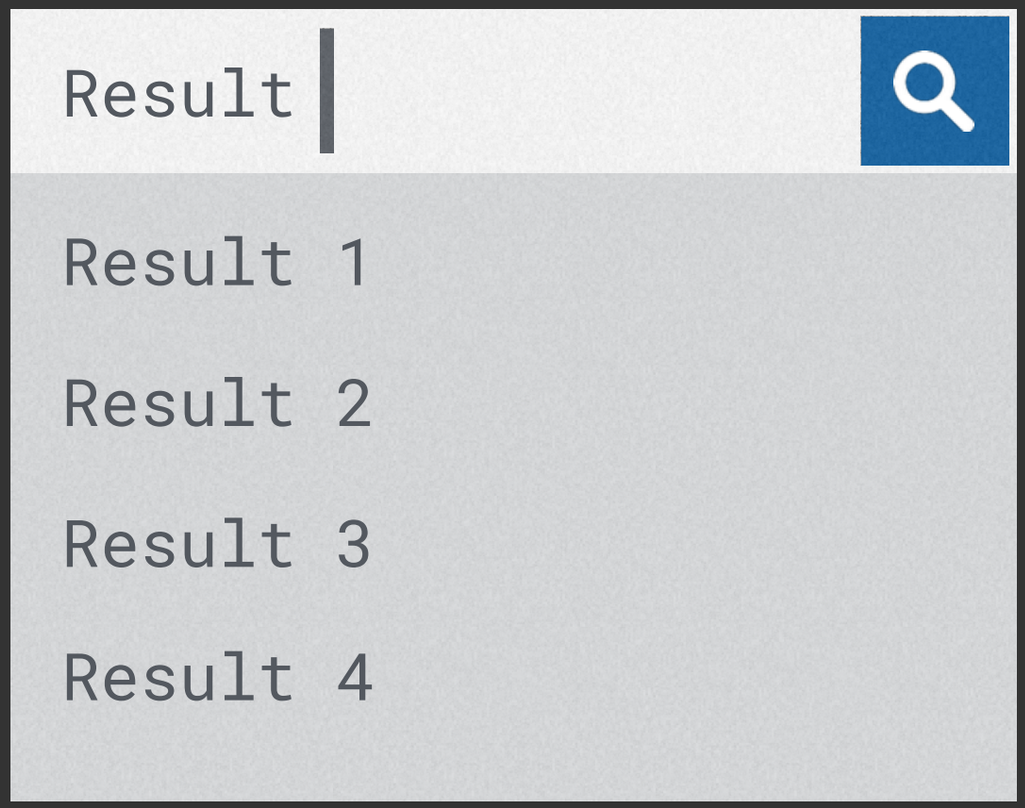

Result x
Result
Result 1
Result 2
Result 3
Result 4

3 Reasons

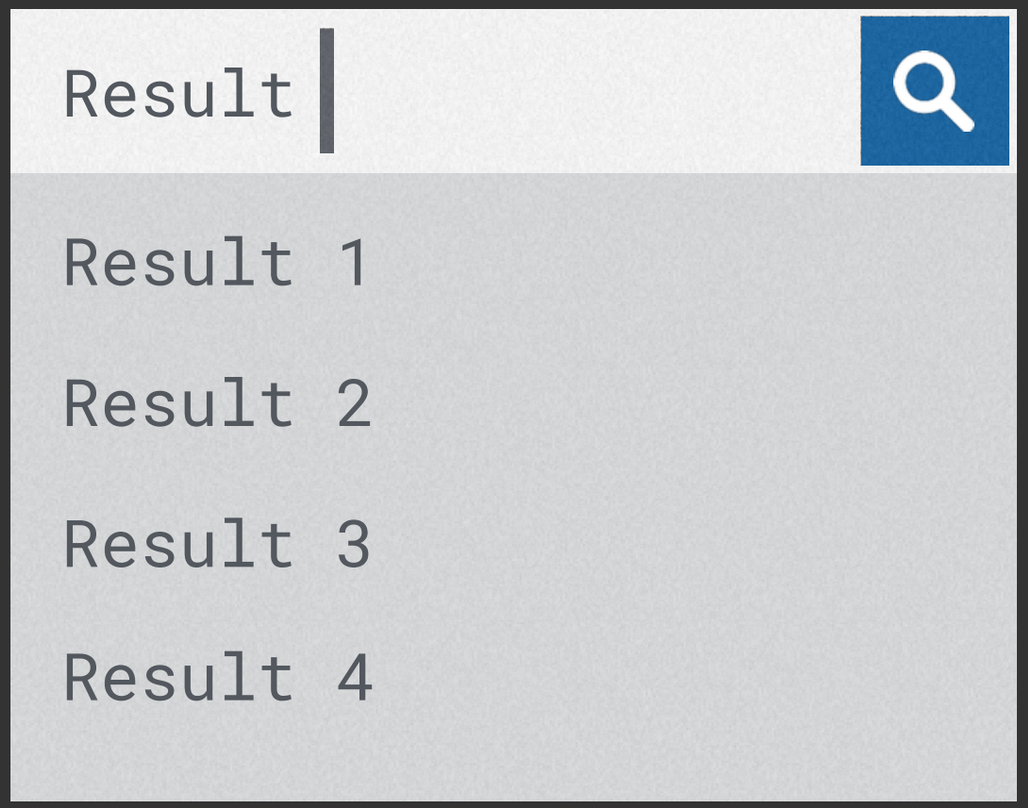
Why you should use ReactJS?

Reason 1

Break UI to components

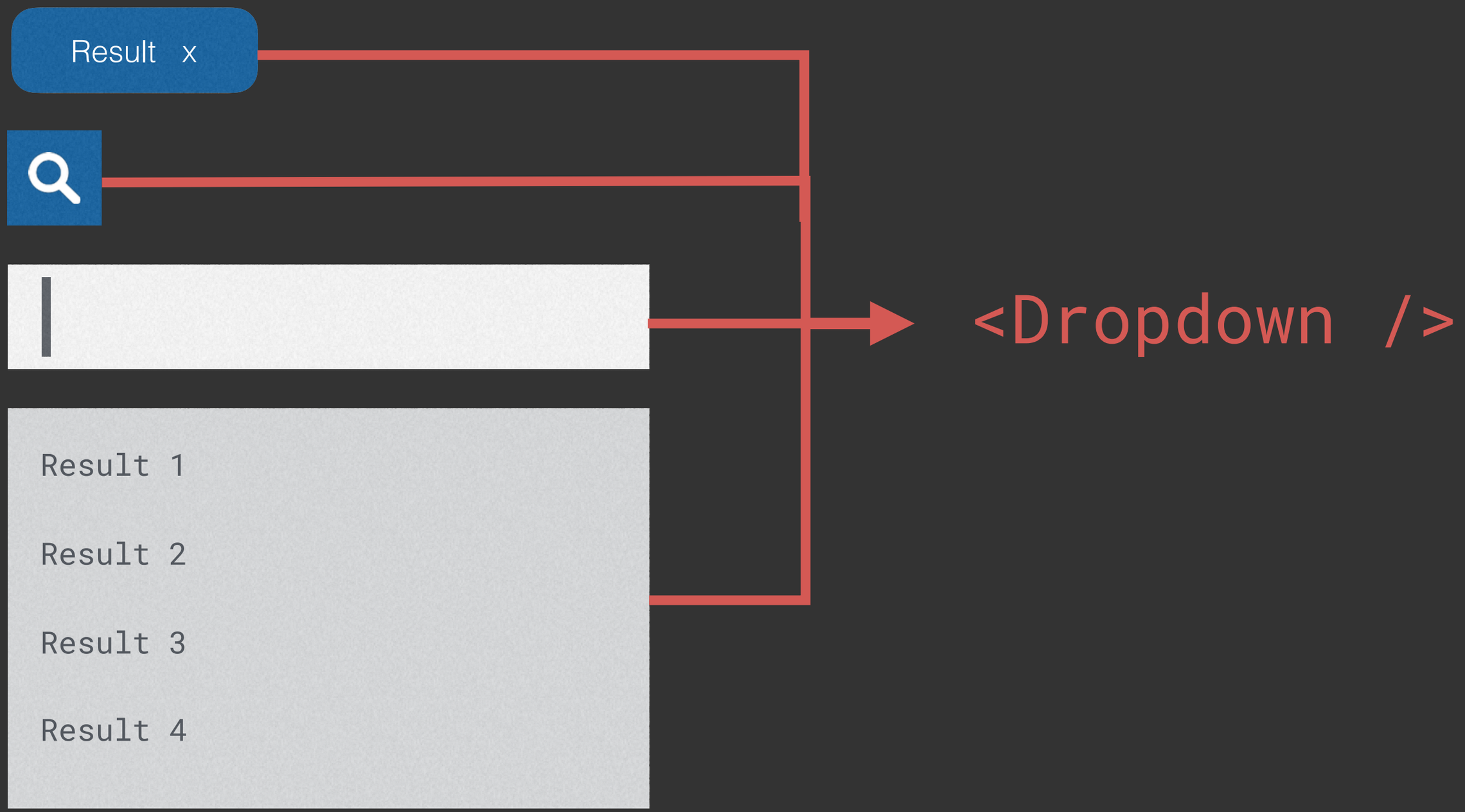


<Dropdown />



Component

<Dropdown />


Result x
<Dropdown />
Result 1
Result 2
Result 3
Result 4

Result x

Result 1

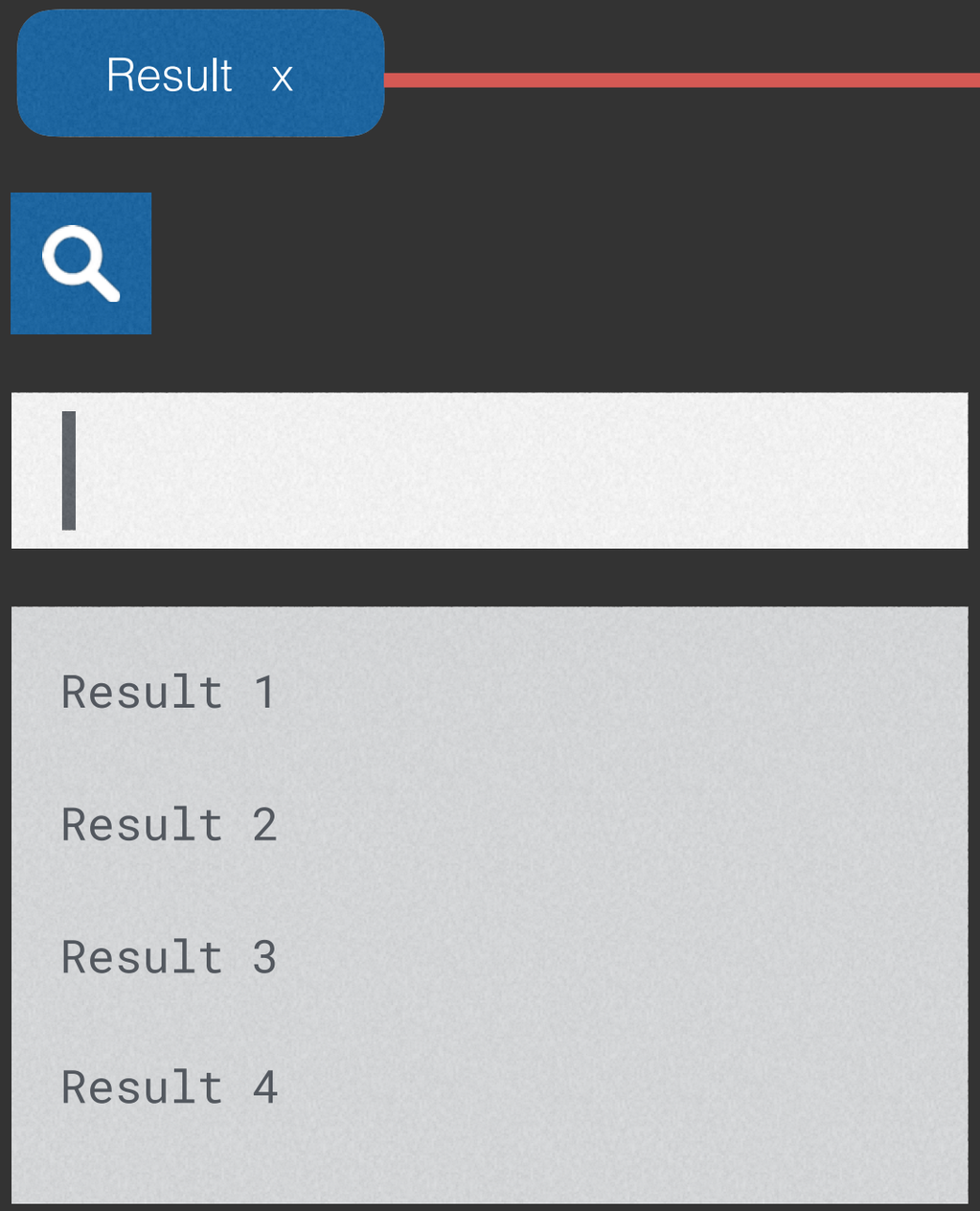
Result 2

Result 3

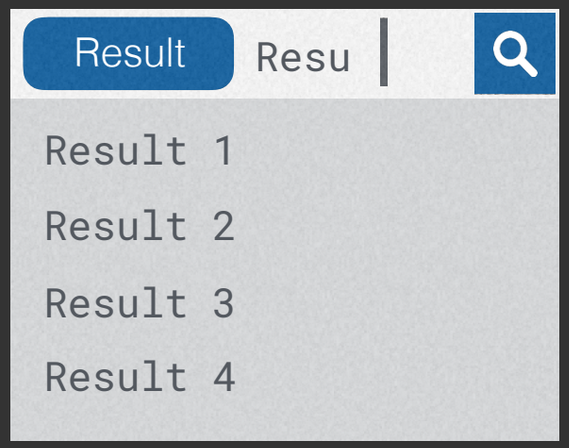
Result 4

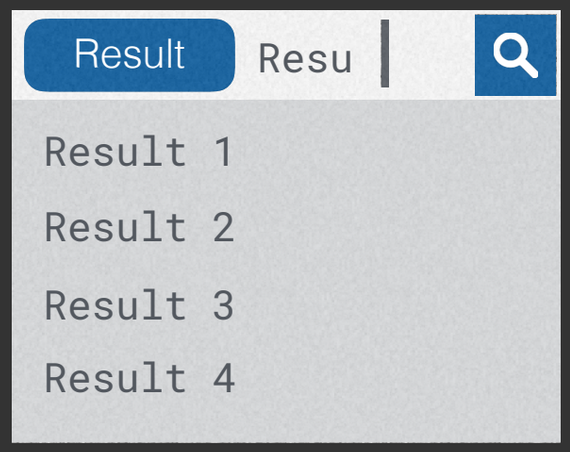
Event

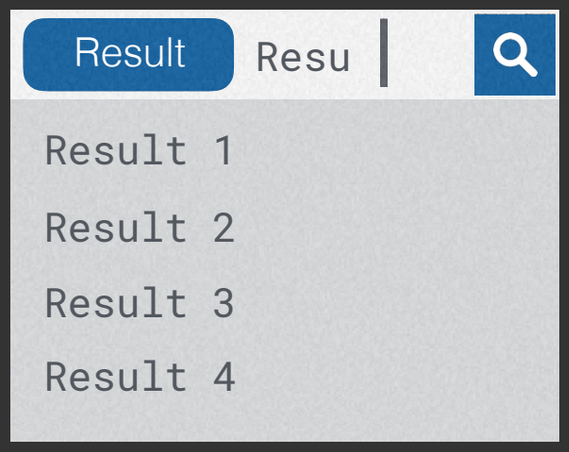
```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...} />
```

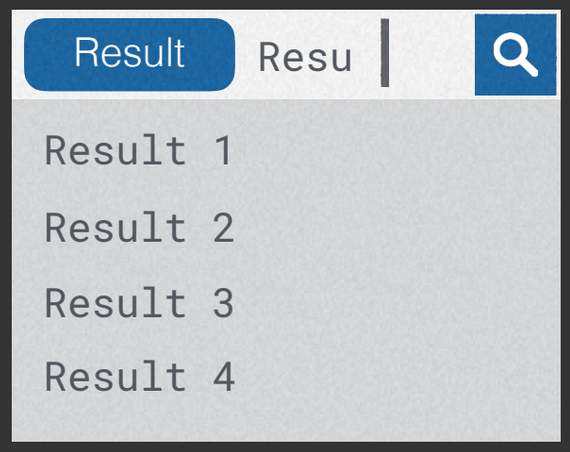



```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...}
          onKeyPress={...} />
```



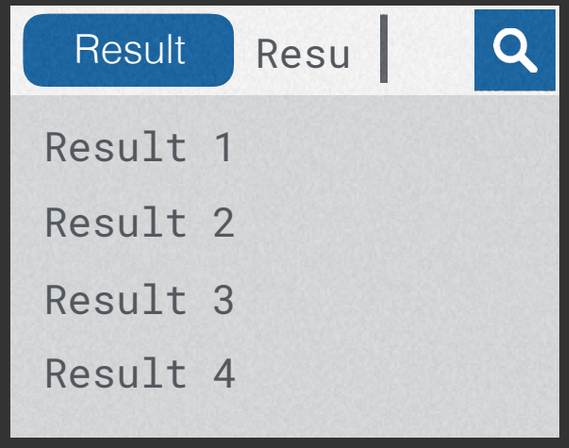


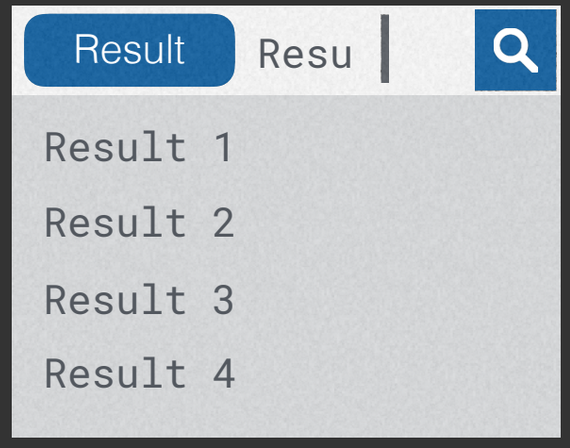


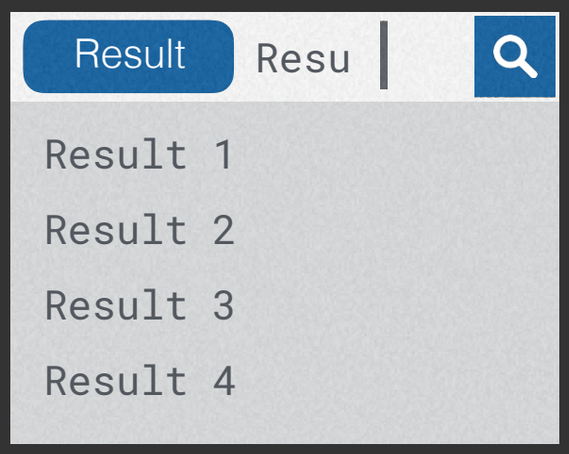


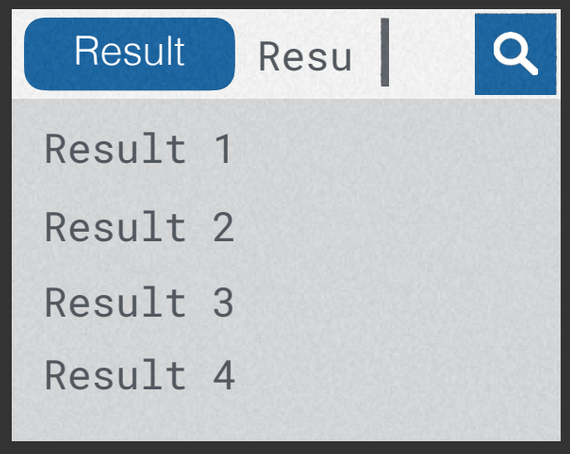

```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...}
          onKeyPress={...}/>
```

```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...}
          onKeyPress={...}/>
```



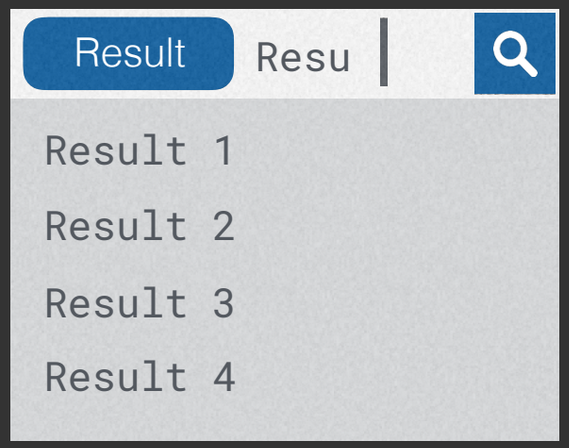


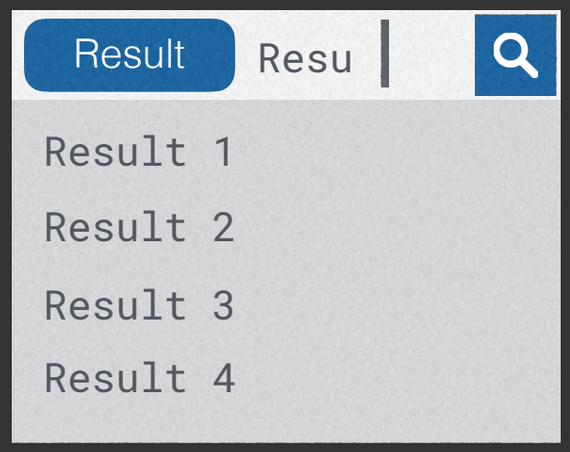


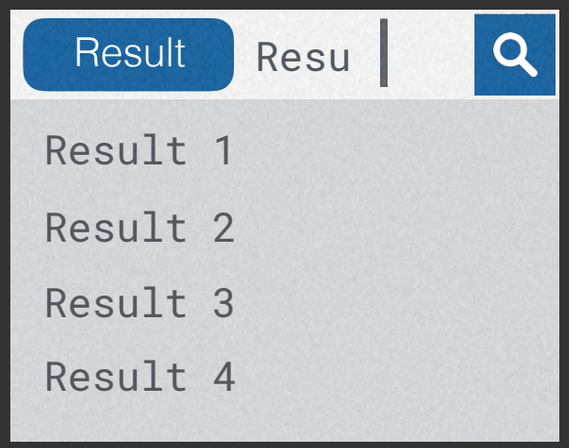


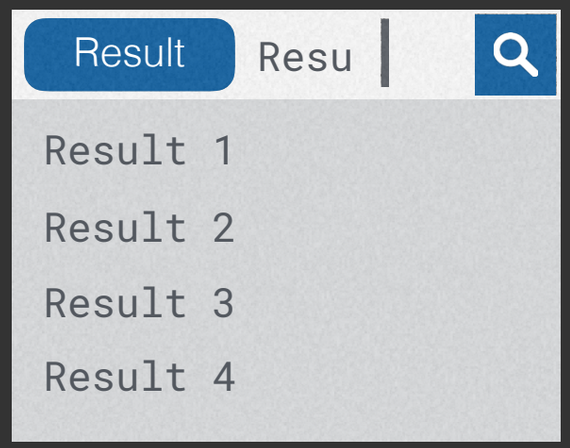

```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...}
          onKeyPress={...}/>
```

```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...}
          onKeyPress={...}/>
```

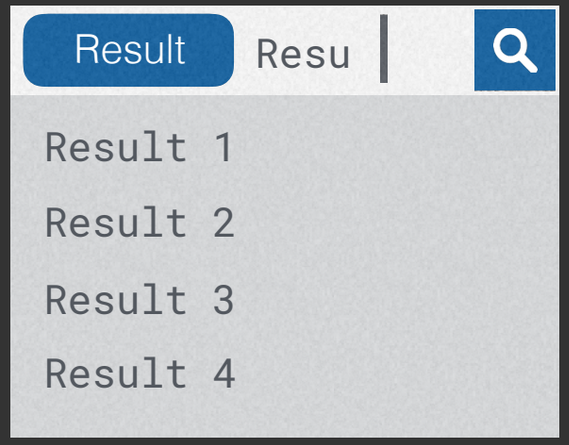


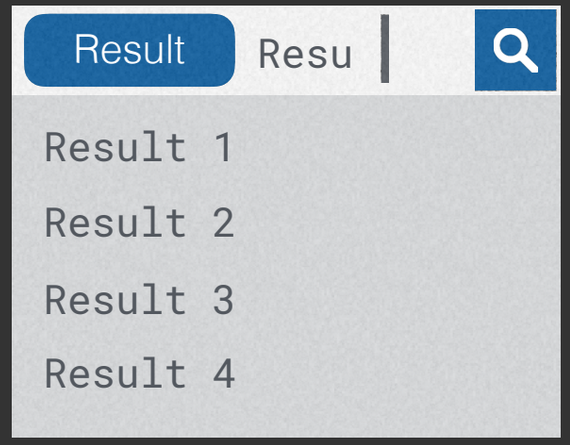


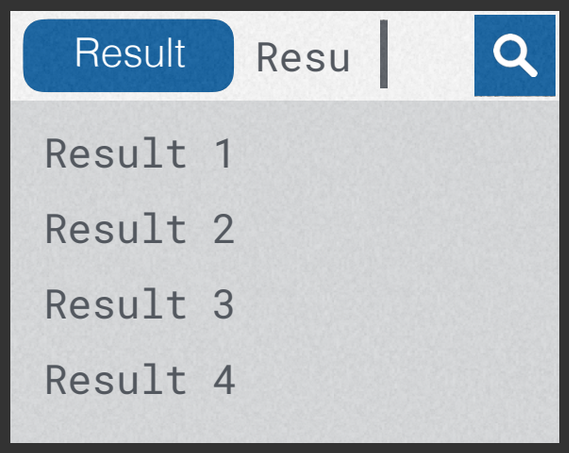


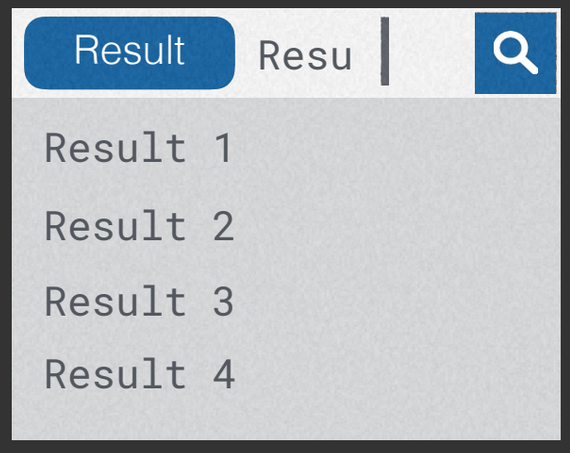



```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...}
          onKeyPress={...}/>
```



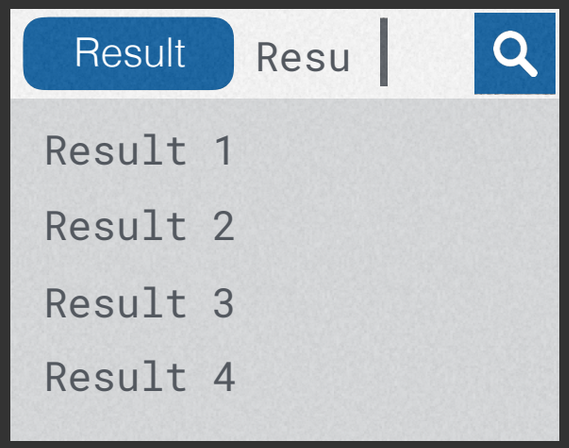


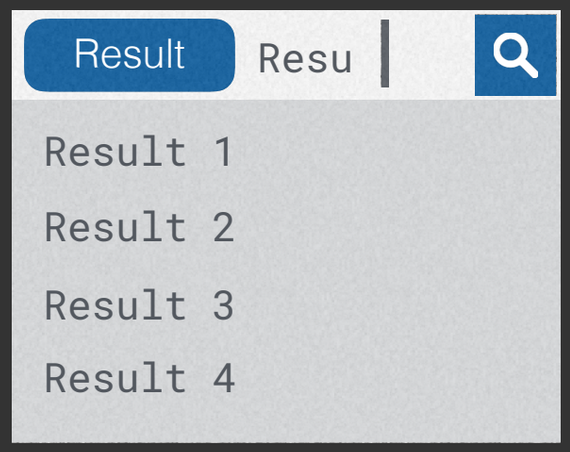


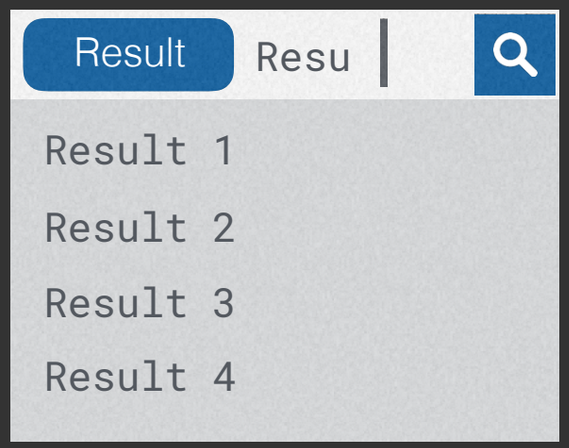


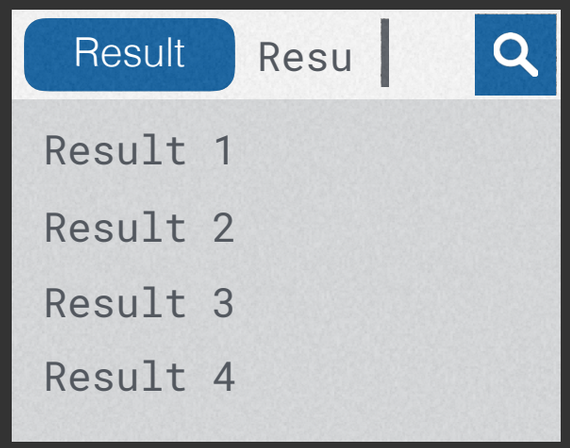

```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...}
          onKeyPress={...}/>
```

```
<Dropdown onFocus={...}
          onBlur={...}
          onChange={...}
          onKeyPress={...}/>
```



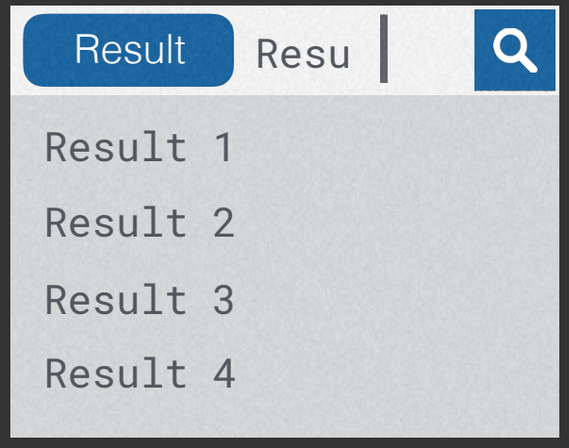


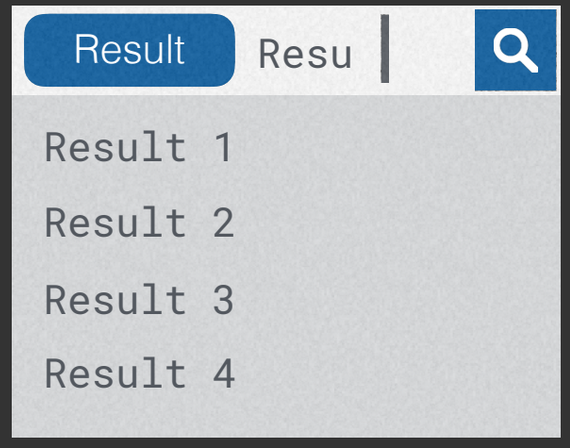


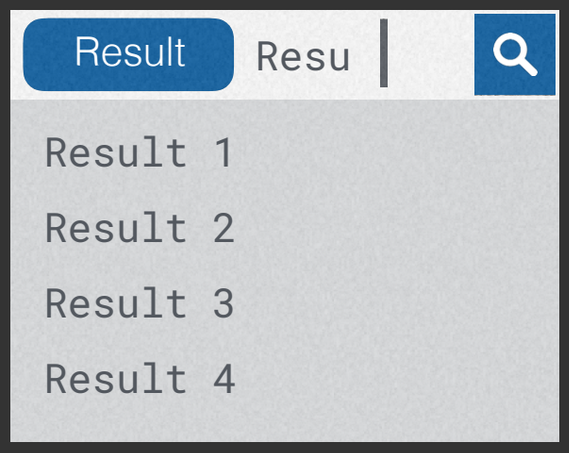


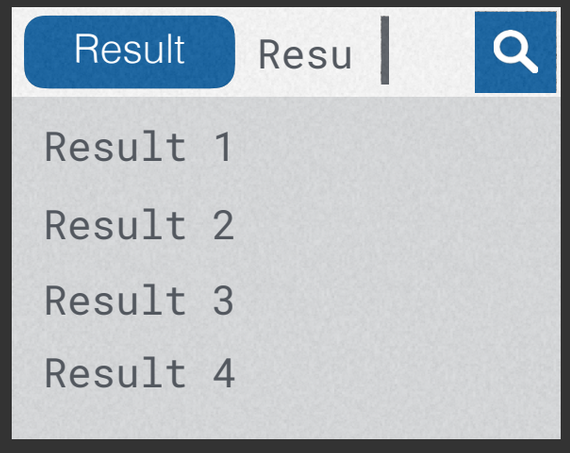

```
<Dropdown onFocus={...}
          onBlur={...}
  State   onChange={...}
          onEnter={...}/>
```

```
<Dropdown onFocus={...}
          onBlur={...}
  State   onChange={...}
          onEnter={...}/>
```



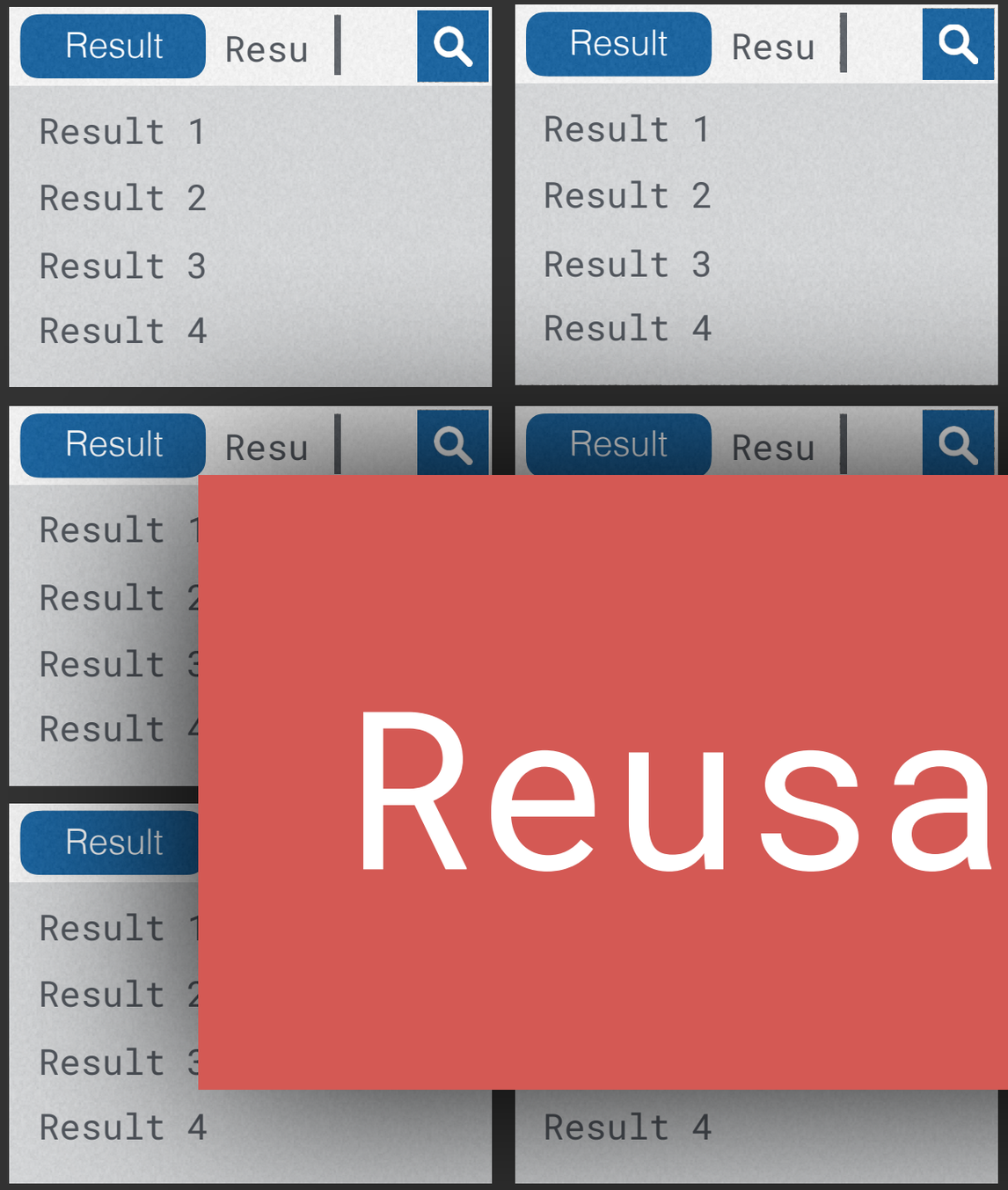


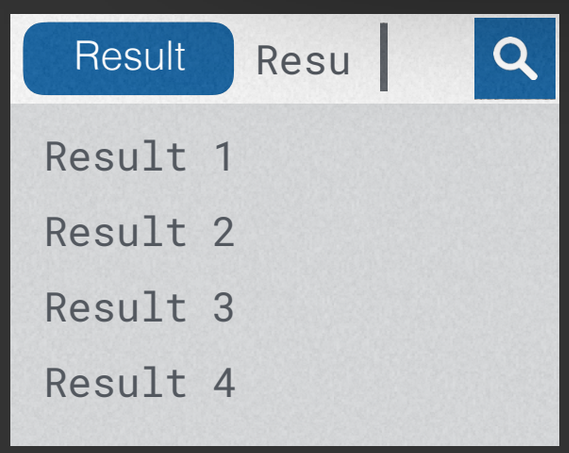


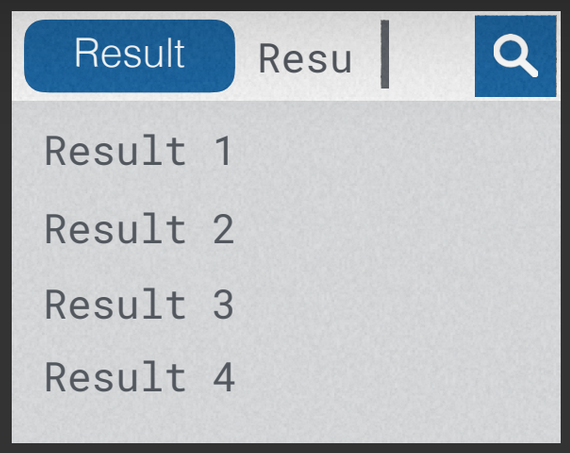



```
<Dropdown onFocus={...}
          onBlur={...}
  State   onChange={...}
          onEnter={...}/>
```

```
<Dropdown onFocus={...}
          onBlur={...}
  State   onChange={...}
          onEnter={...}/>
```







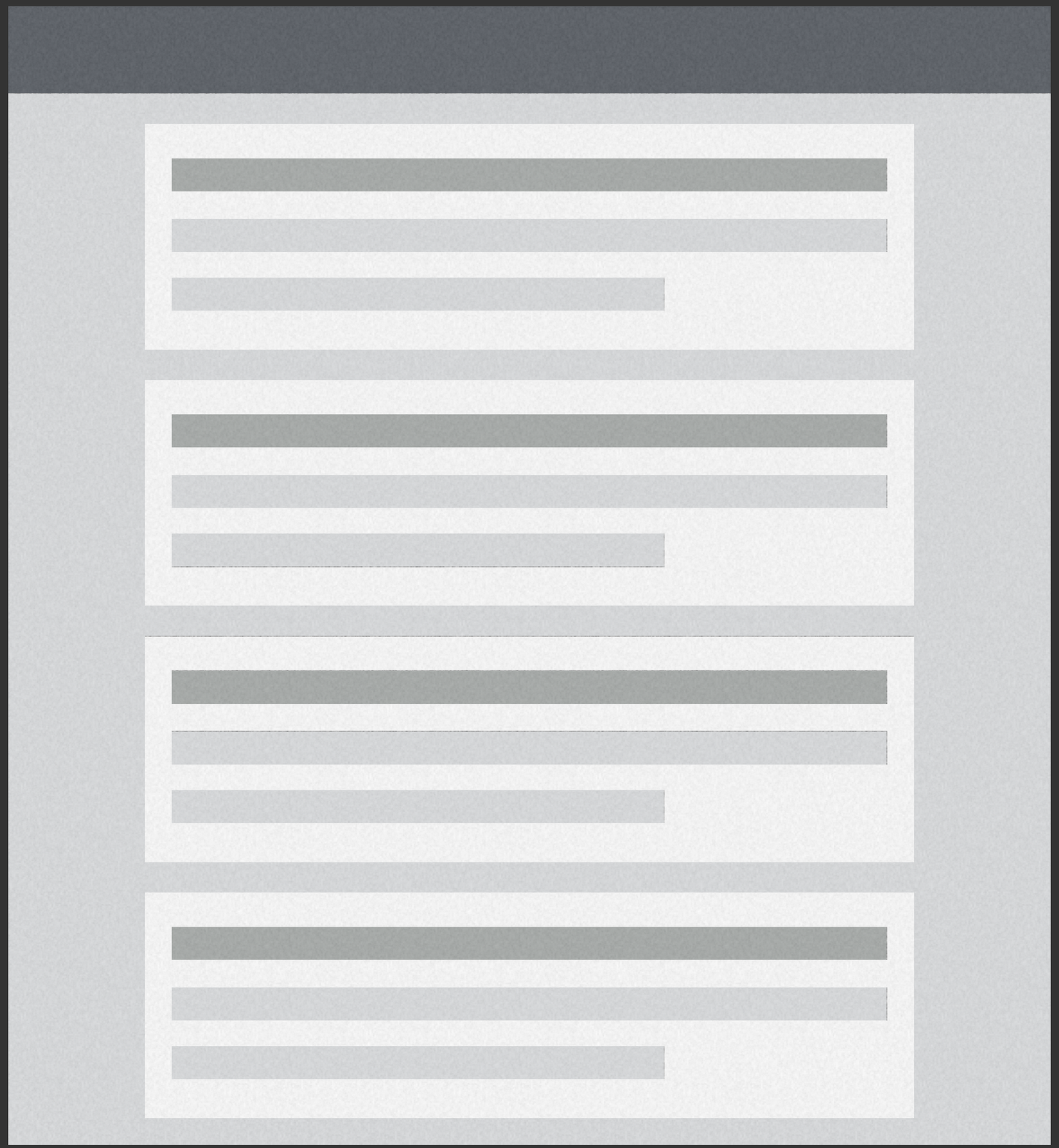

```
<Dropdown onFocus={...}
          onBlur={...}
  State   onChange={...}
          onEnter={...}/>
```

Reusability

```
<Dropdown onFocus={...}
          onBlur={...}
  State   onChange={...}
          onEnter={...}/>
```

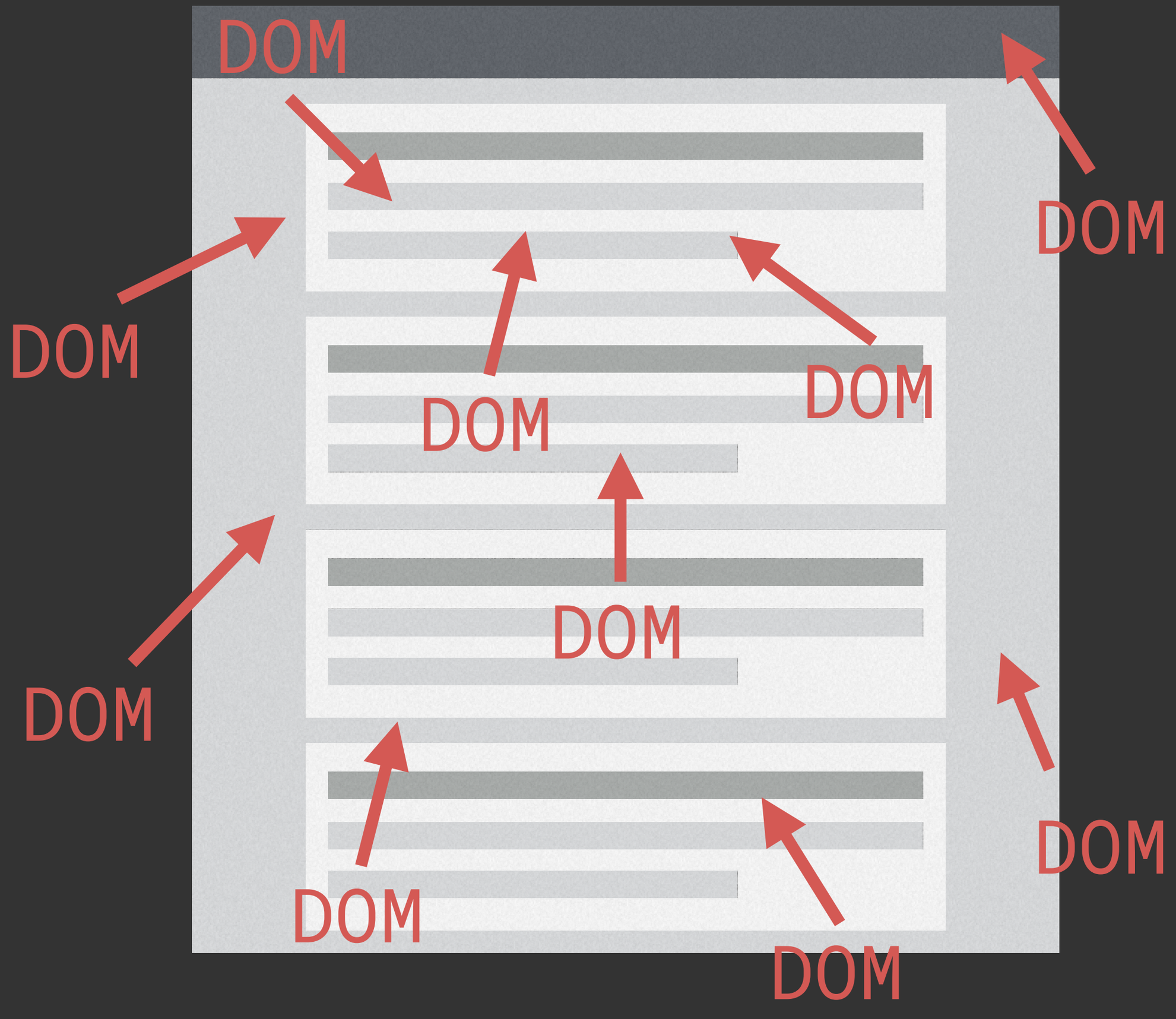
Reason 2

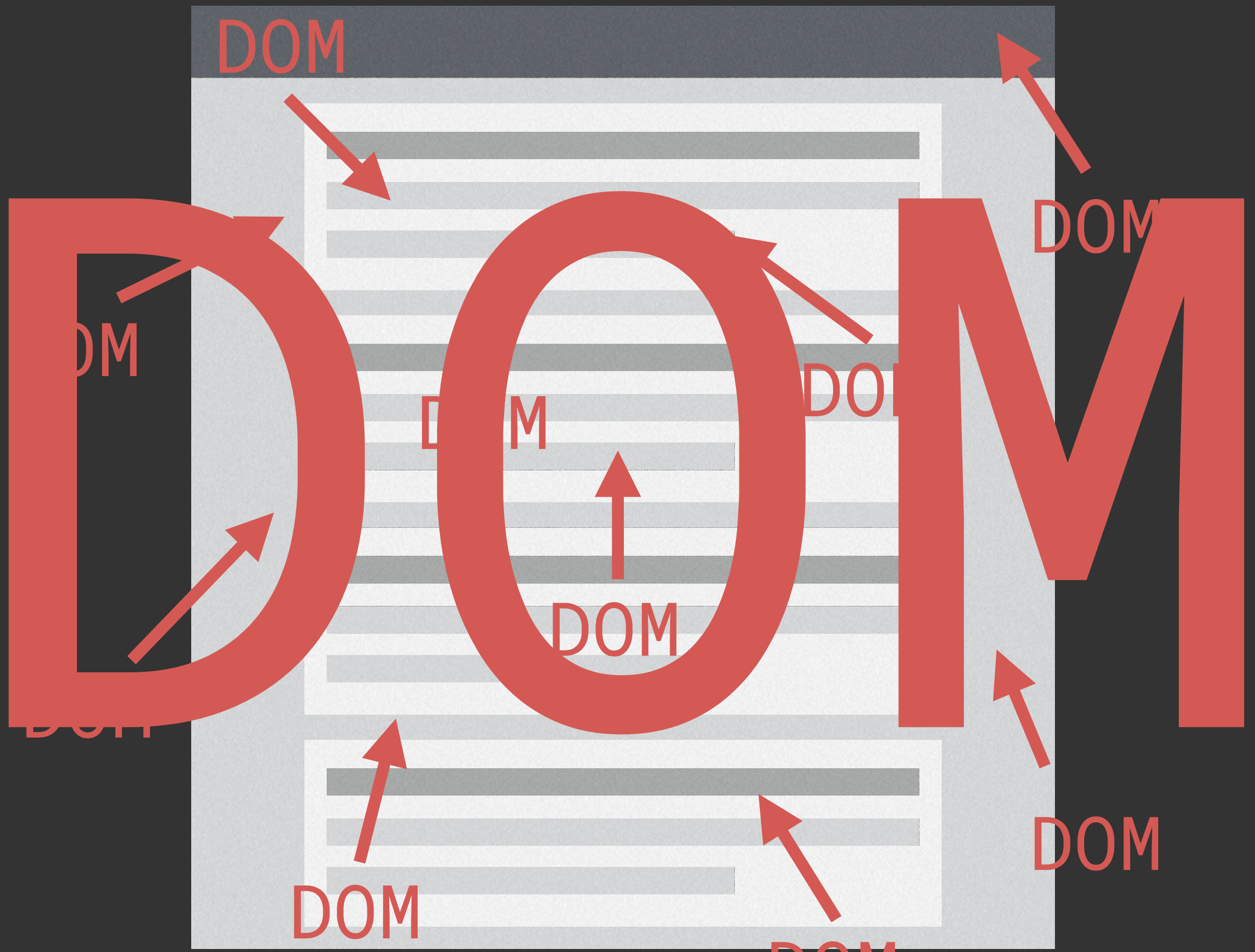
Performance



DOM

DOM
DOM
DOM
DOM


DOM
DOM
DOM
DOM
DOM
DOM
DOM
DOM
DOM
DOM
DOM


DOM
DOM
DOM
DOM
DOM
DOM
DOM
DOM
DOM
DOM

DOM

DOM

DOM

DOM

DOM

DOM

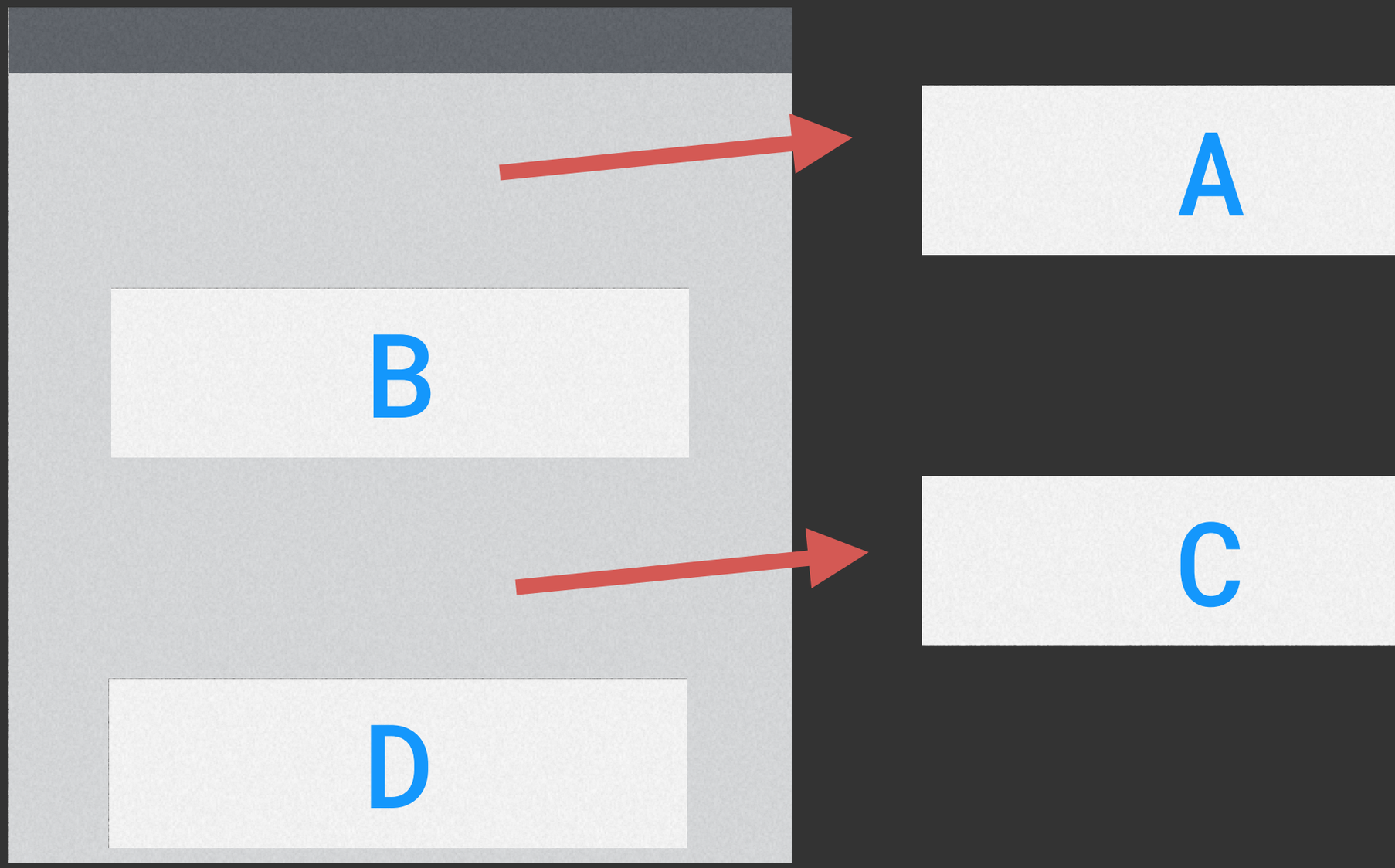
DOM

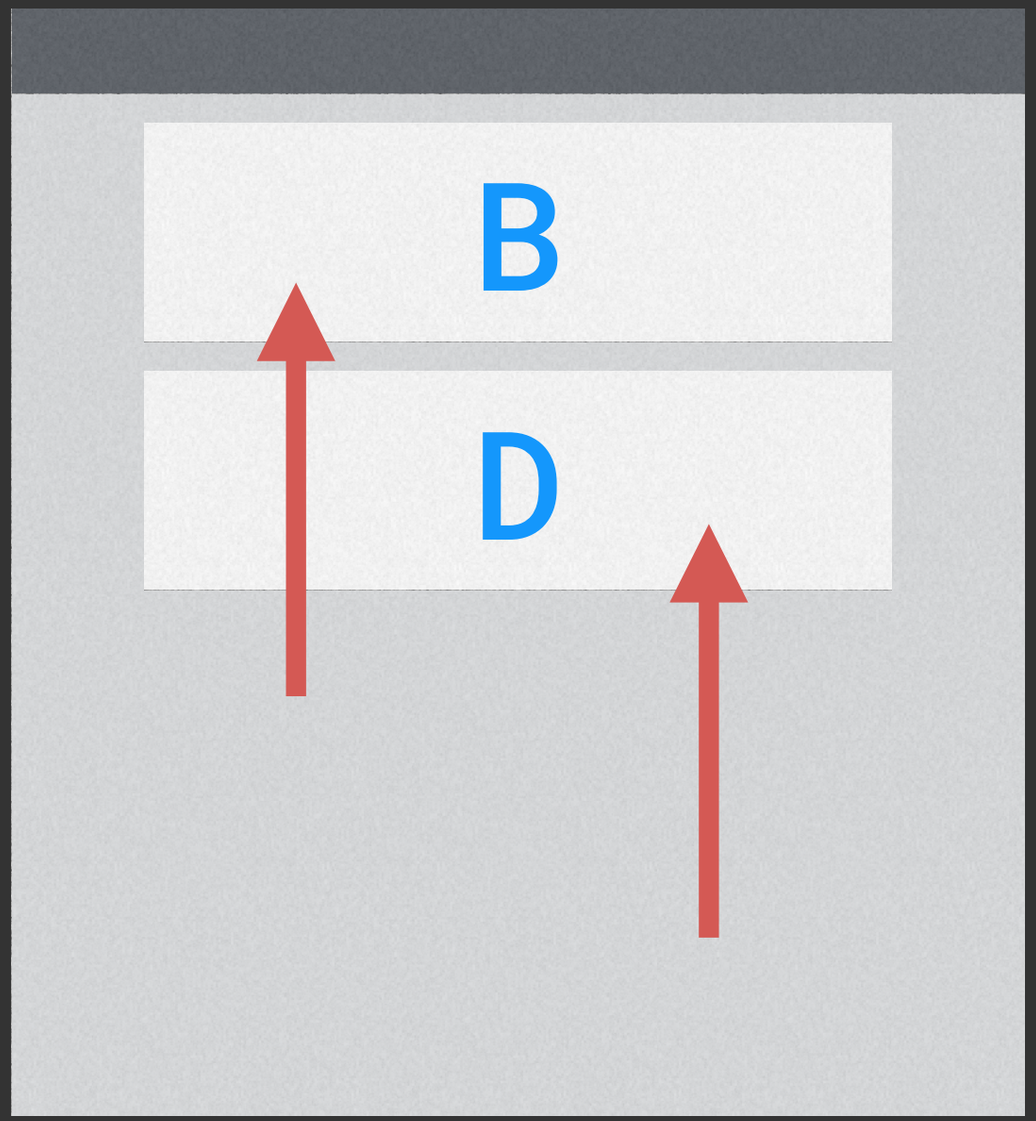
A

B

C

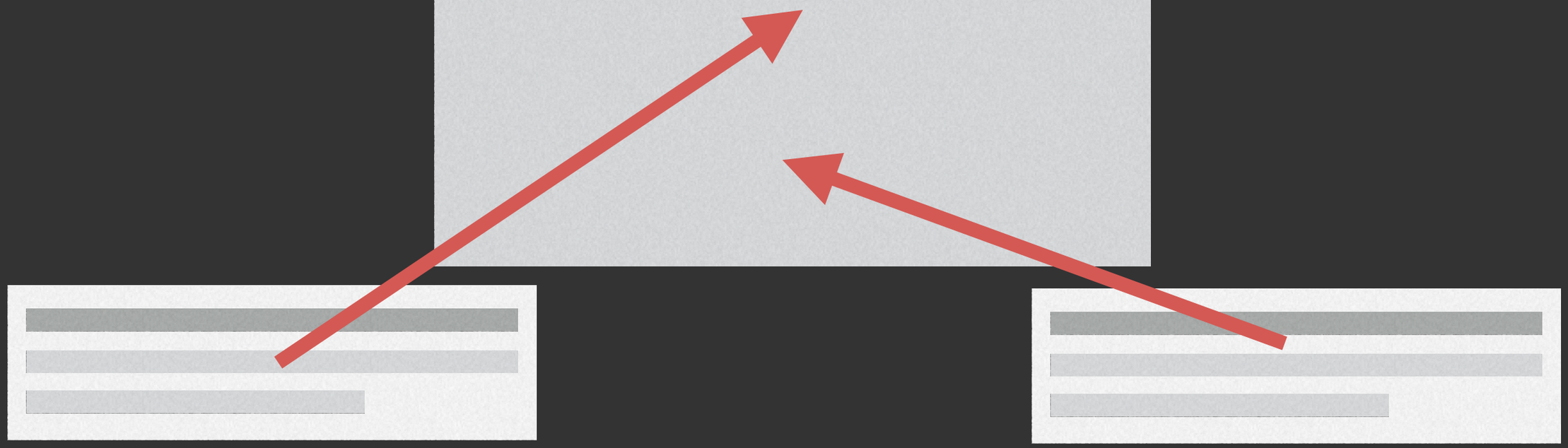
D


A
B
C
D


B
D

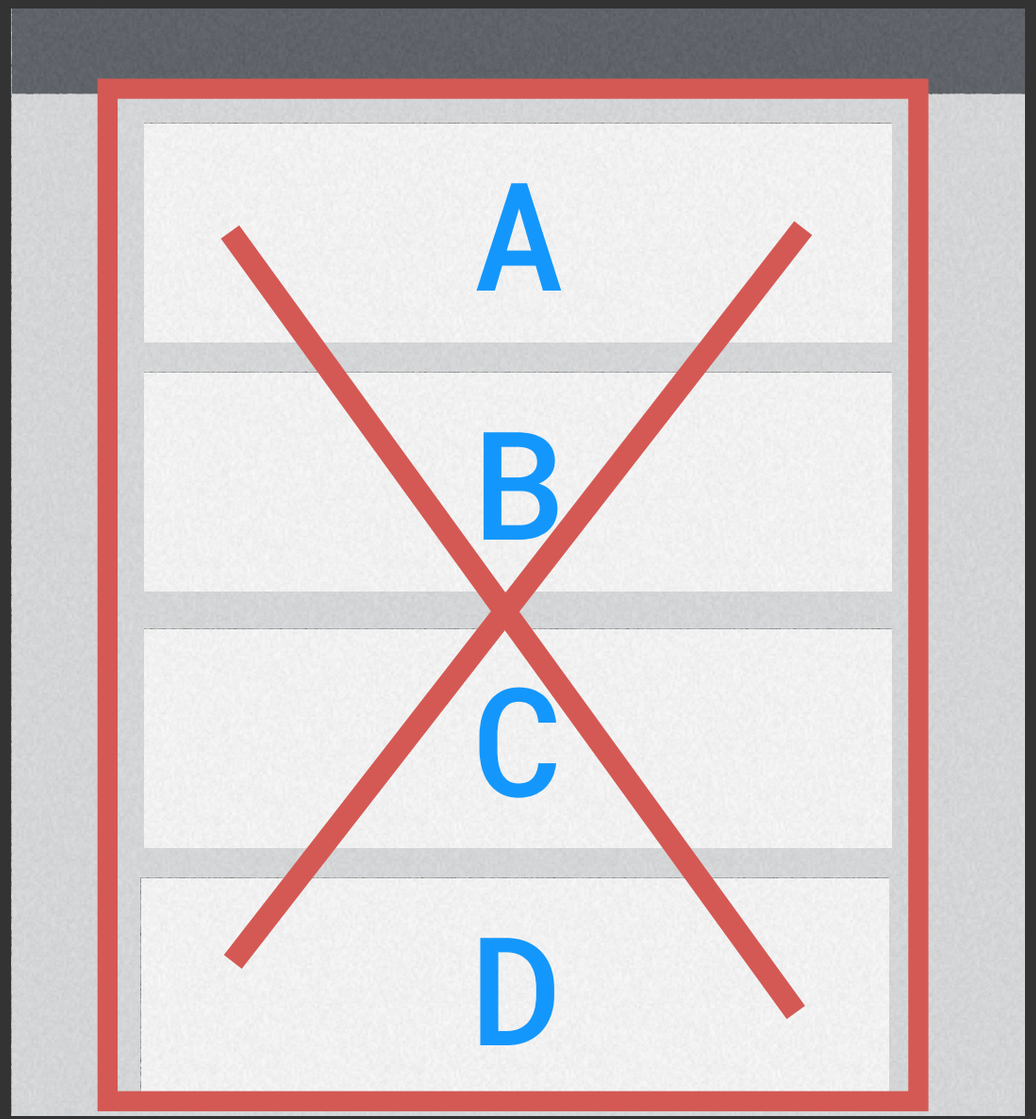
B

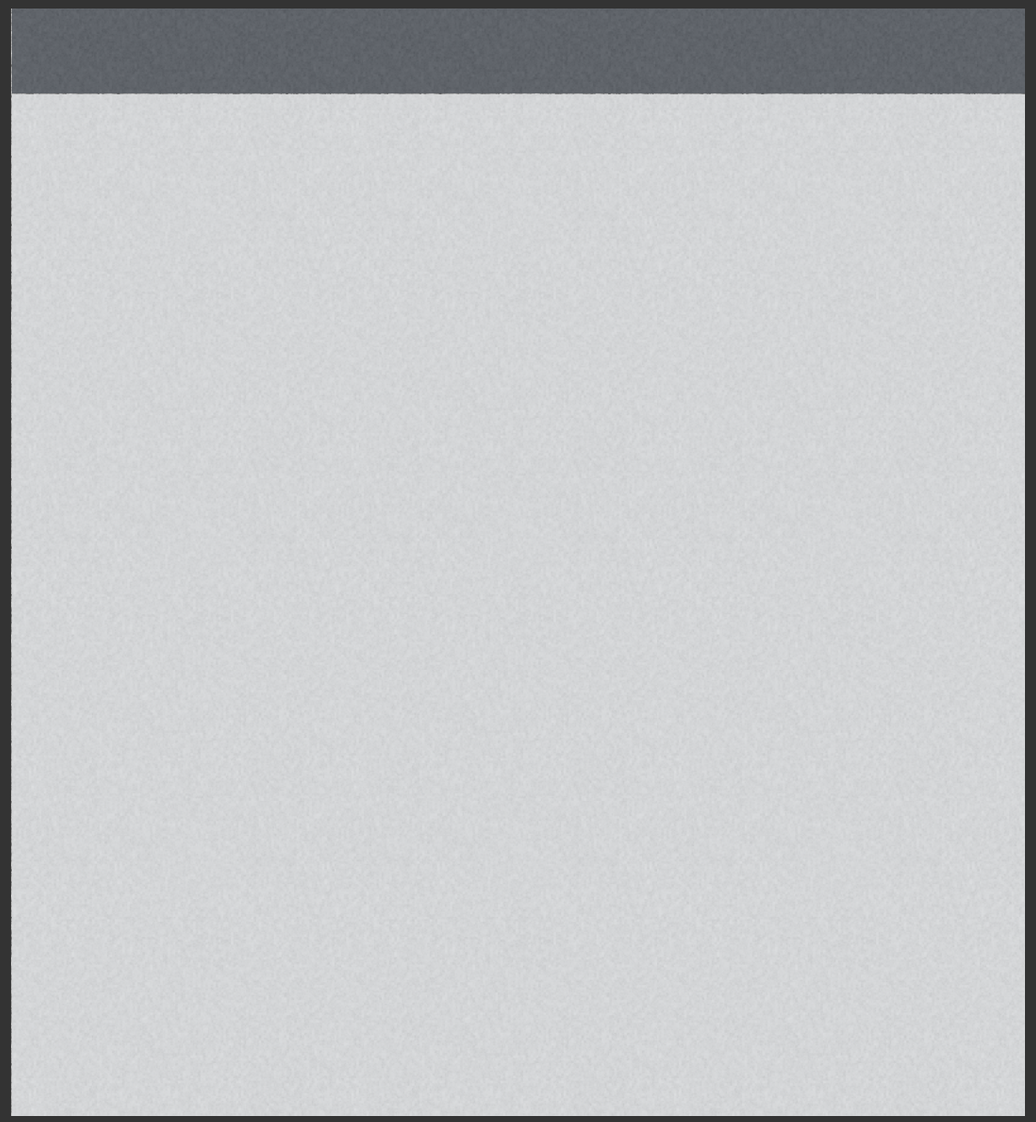
D



B

D


A
B
C
D

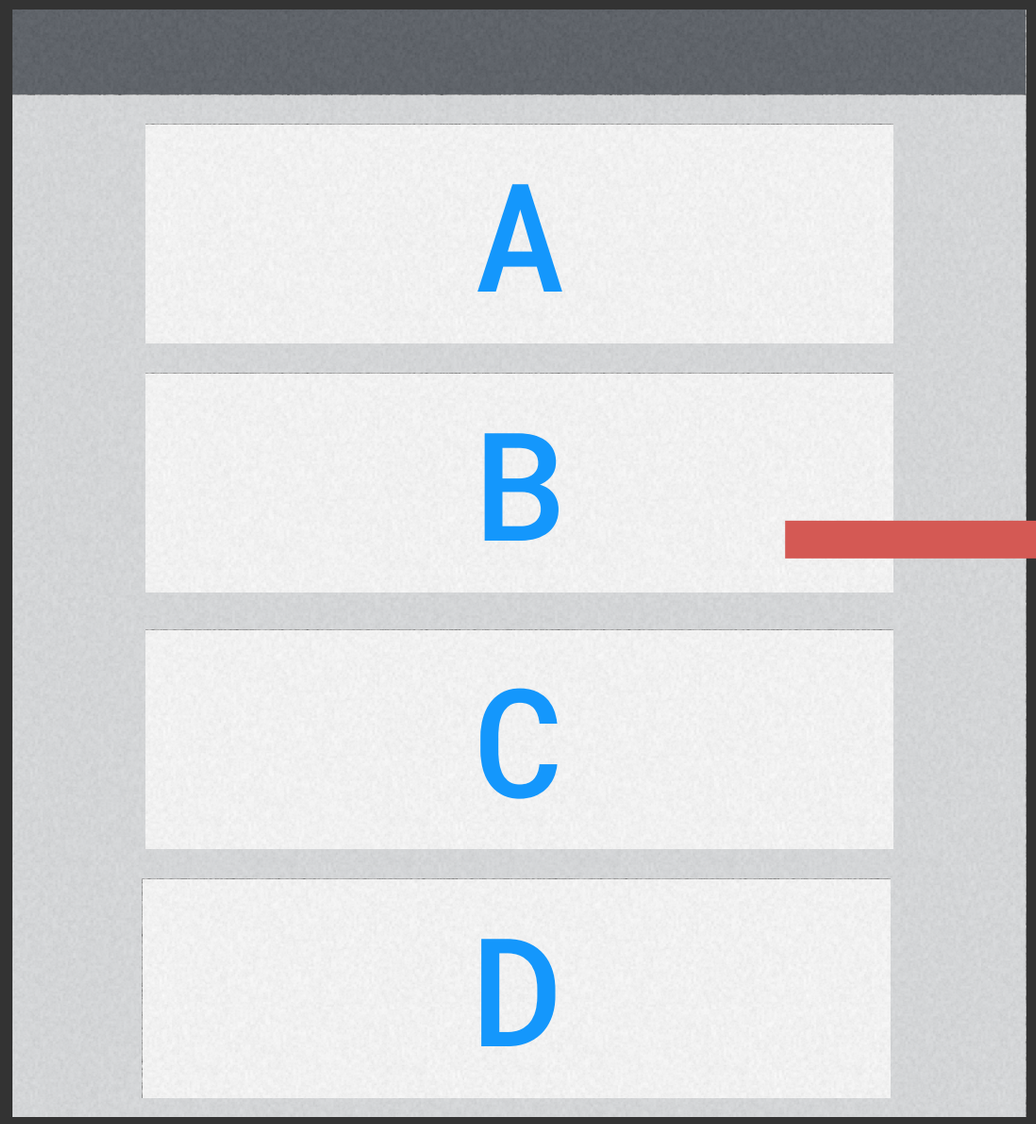


B

D

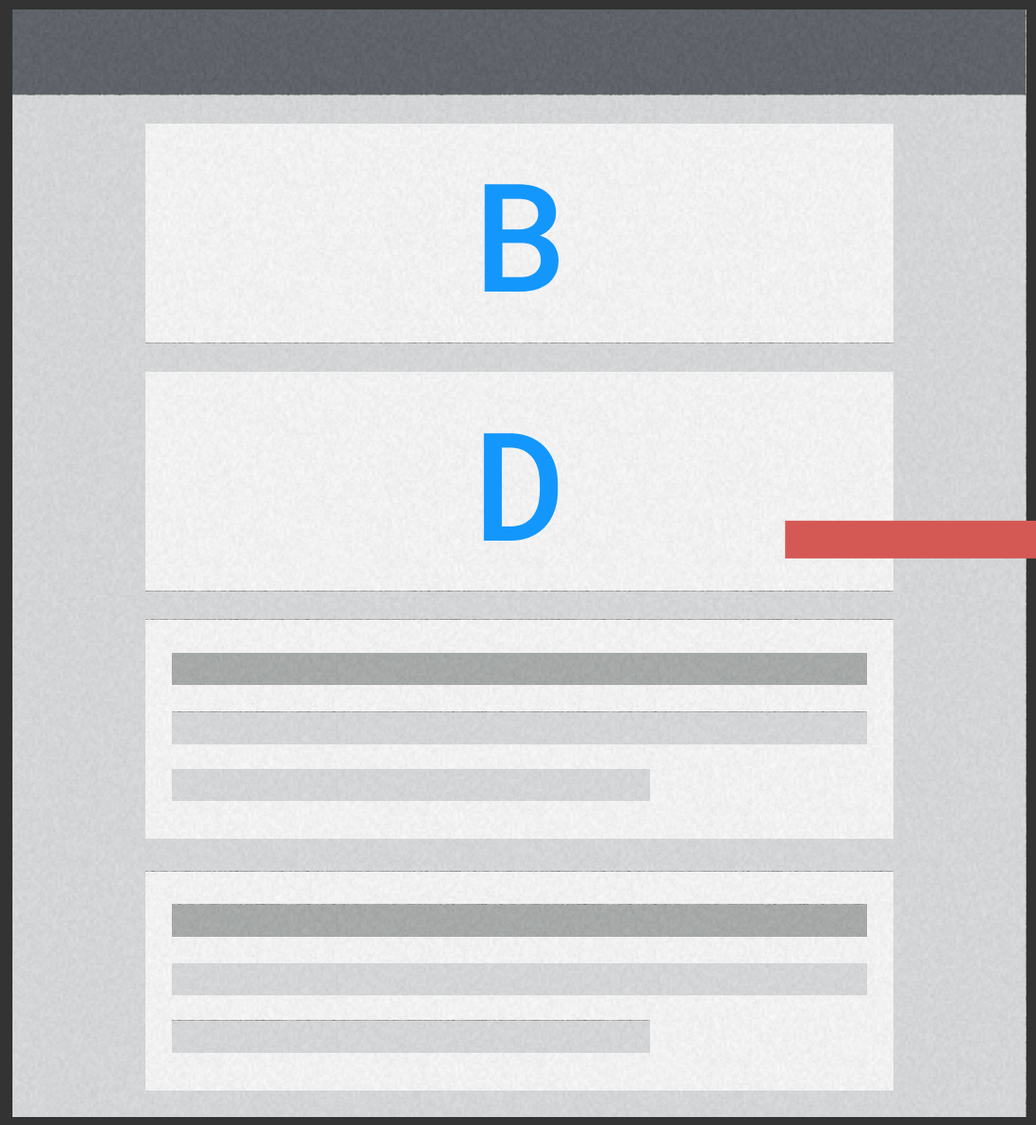
Virtual DOM

Before

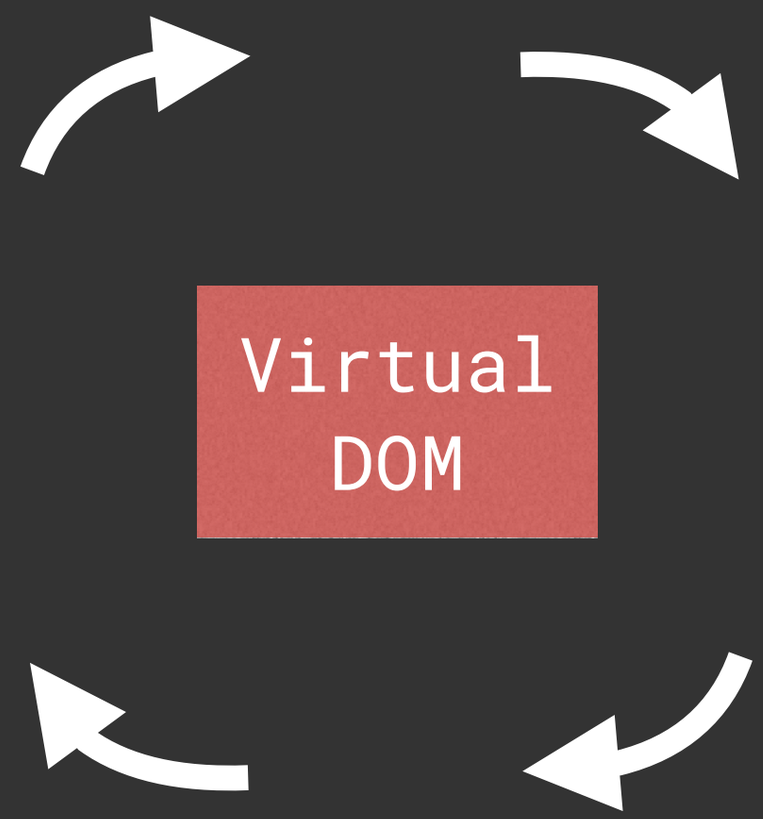


Virtual
DOM

After



Virtual
DOM


Virtual
DOM

Before

A

B

C

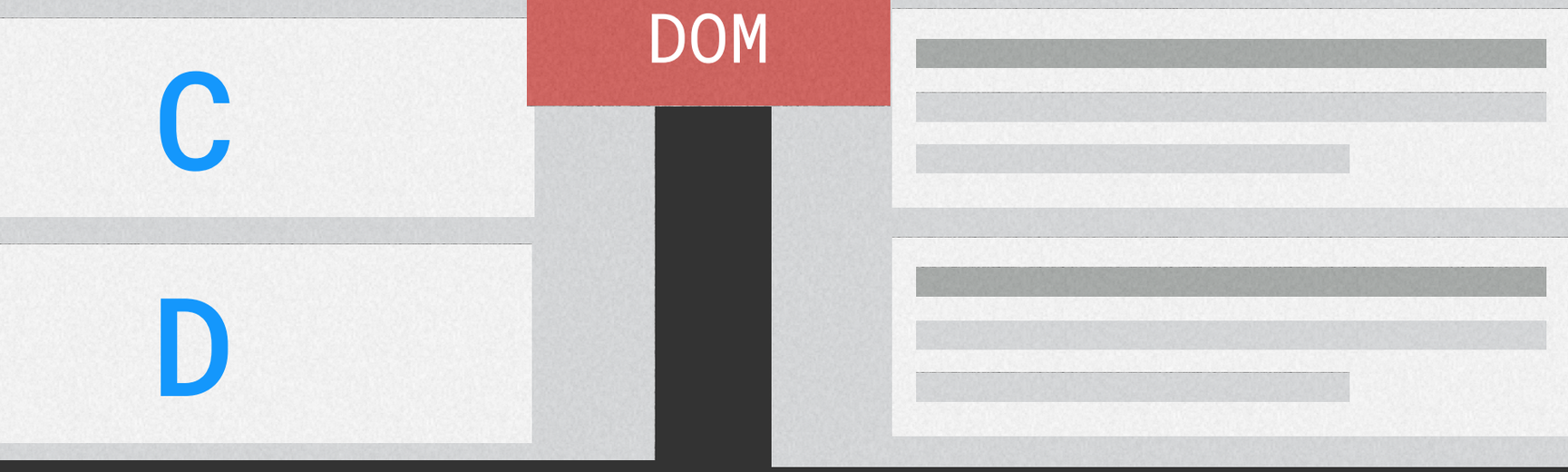
D

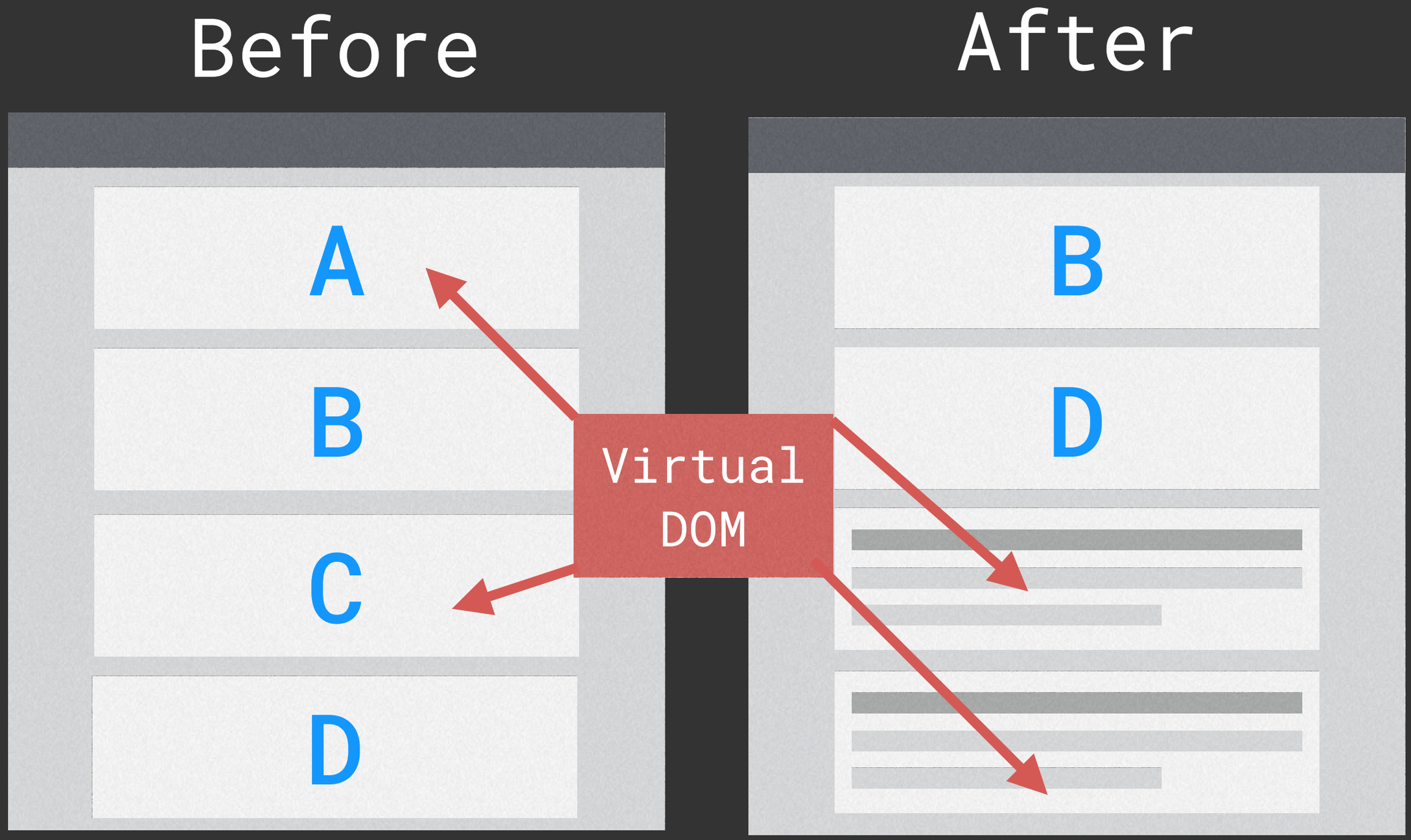
Virtual DOM

After

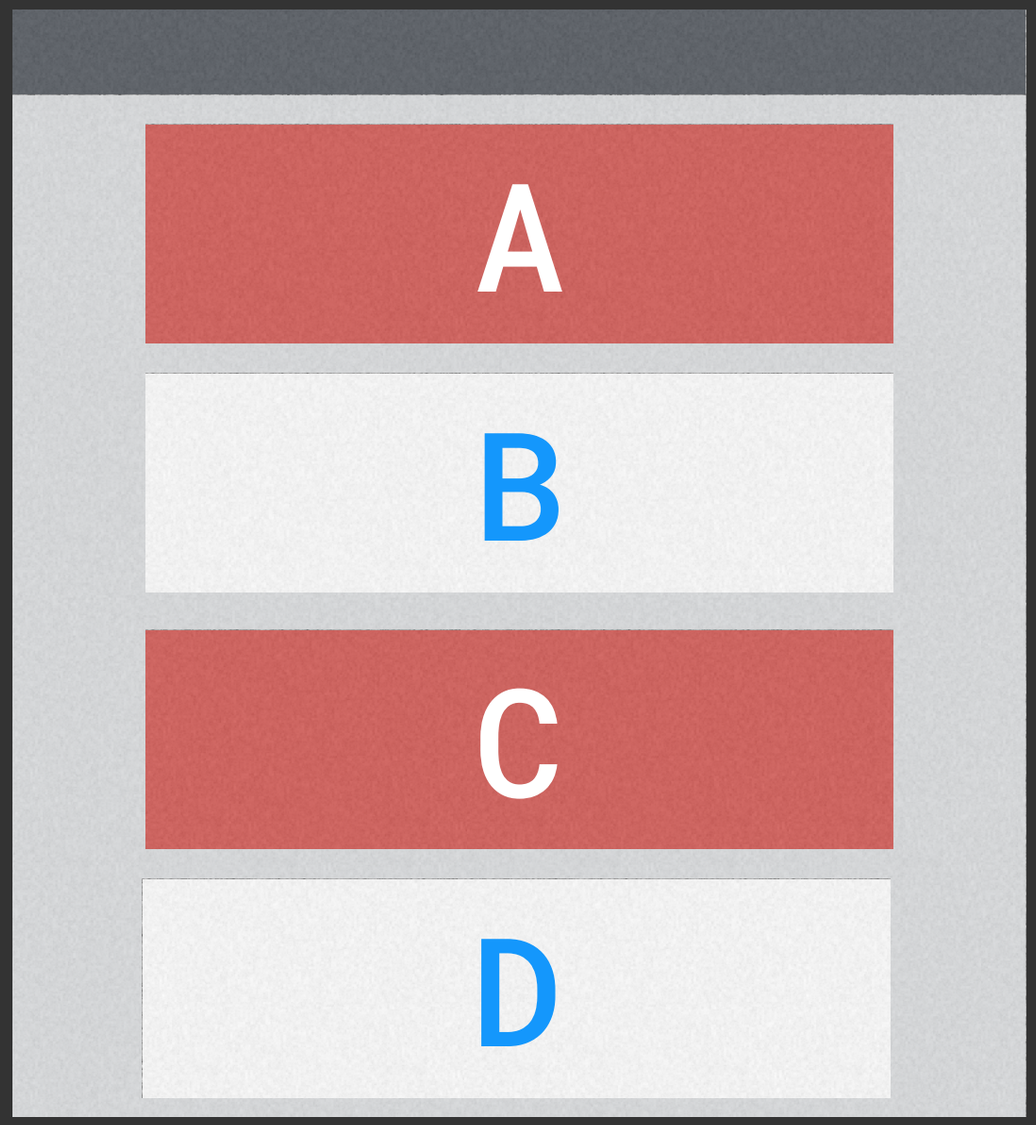
B

D

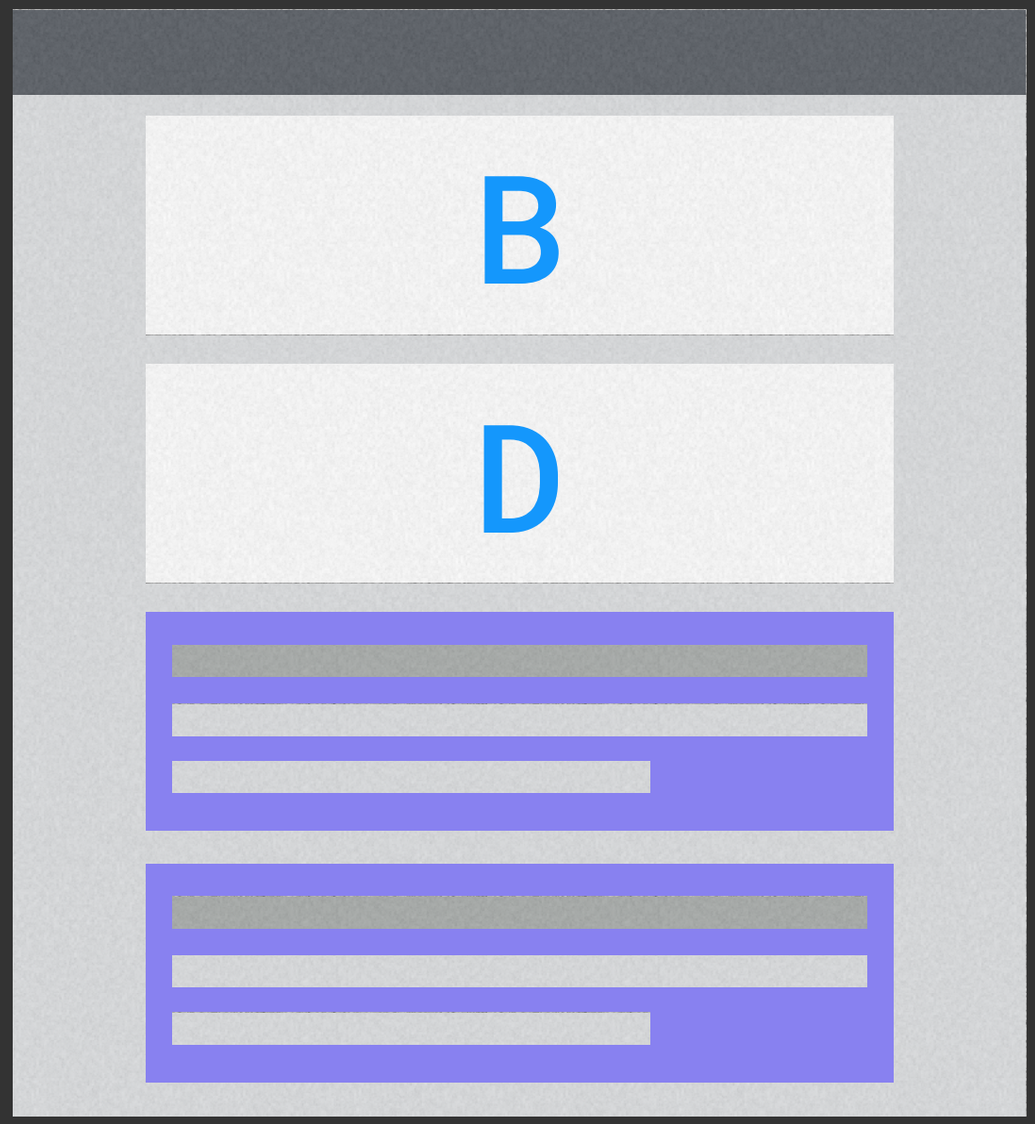



Before
After
A
B
C
D
Virtual DOM
B
D

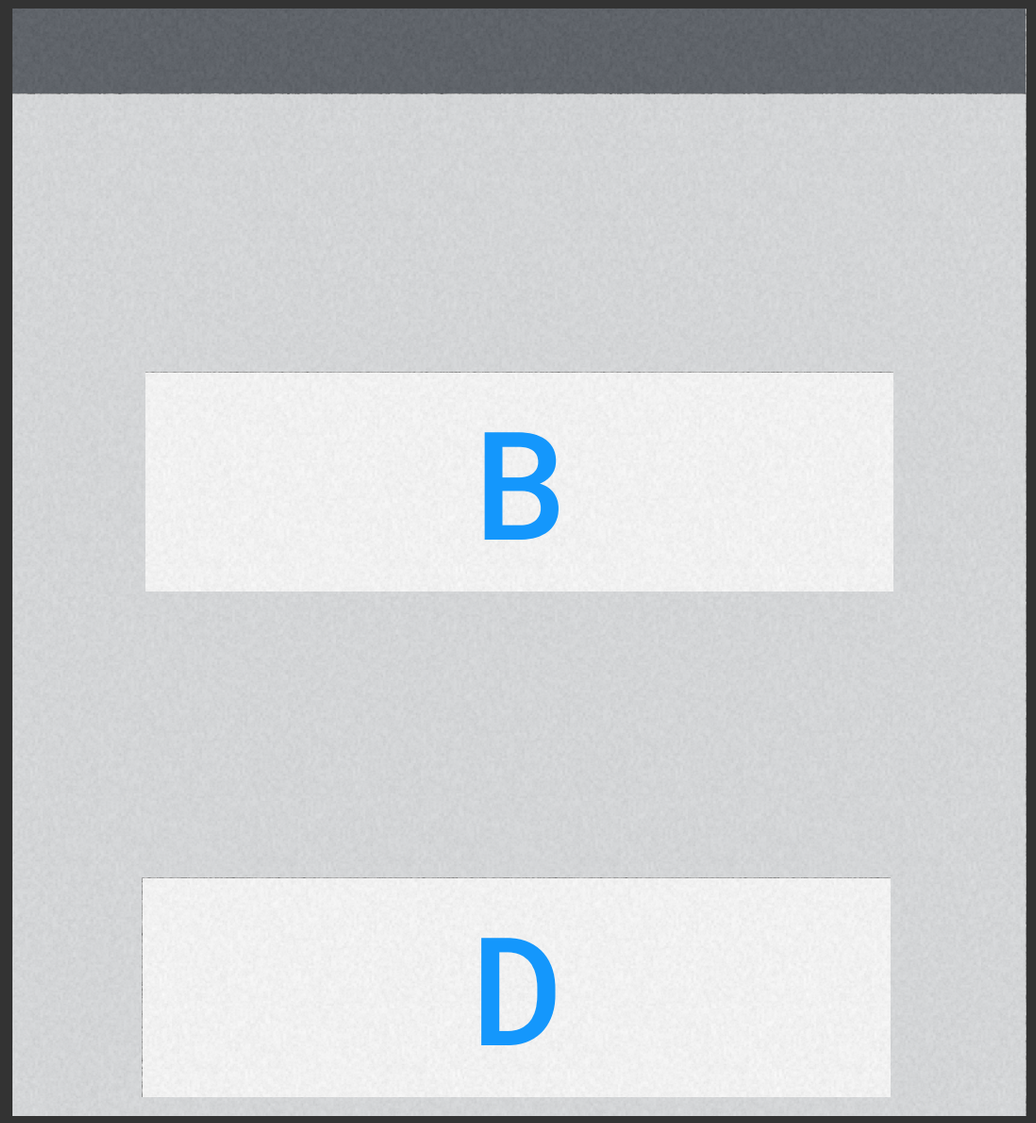
Before



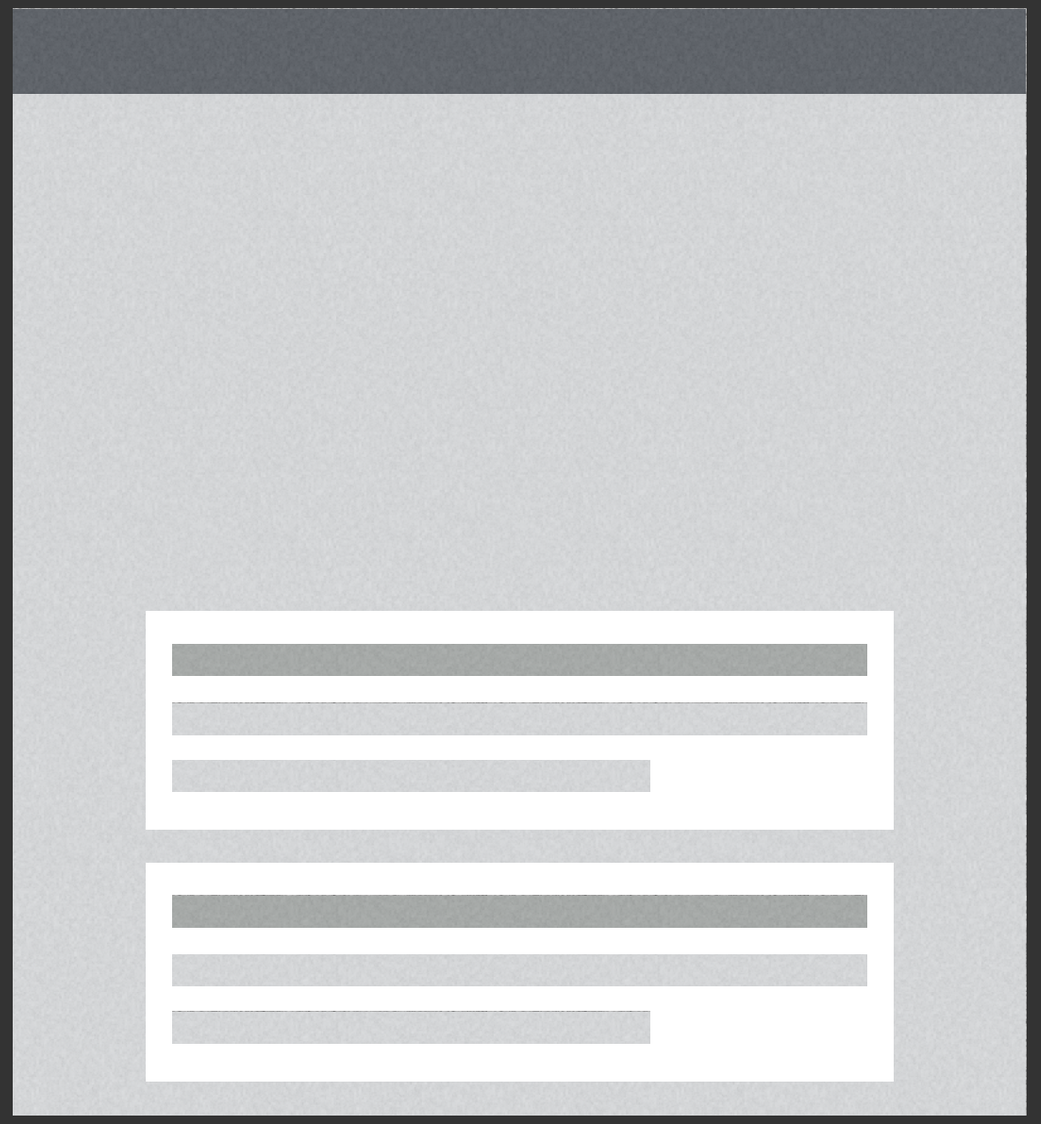
After



Before

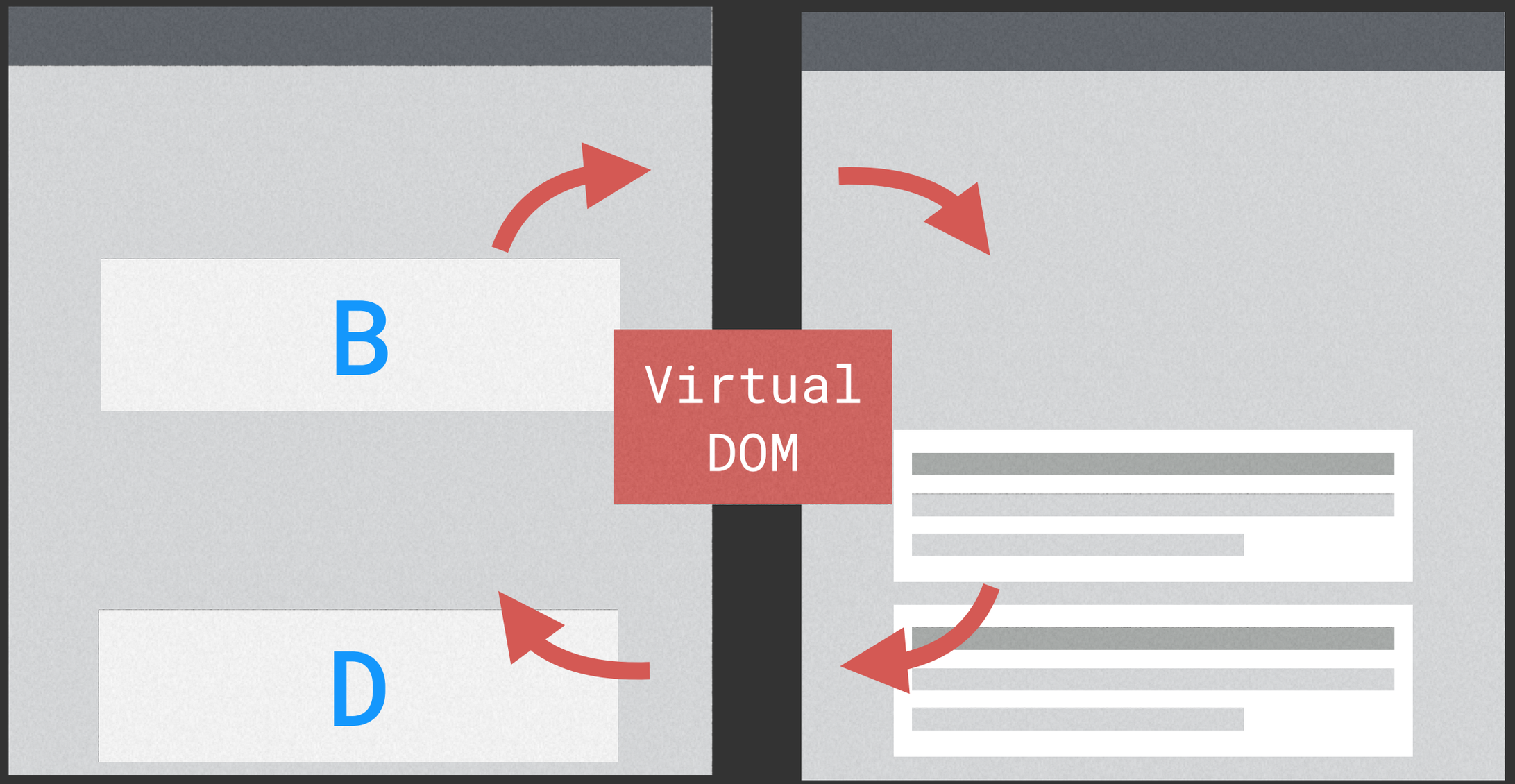


After



Before

After



Before Result After

UHF
www.thaitv3.com

Reason 3

Believe in facebook

Reason 3

~~Believe in facebook~~

Ecosystem

airbnb

Alipay™

Dailymotion

docker

asana

Atlassian

Dropbox

JOOX

BBC

DEEZER

CloudFlare

IMDb

feedly

Kaidee.com
ชื่อใหม่ของ OLX

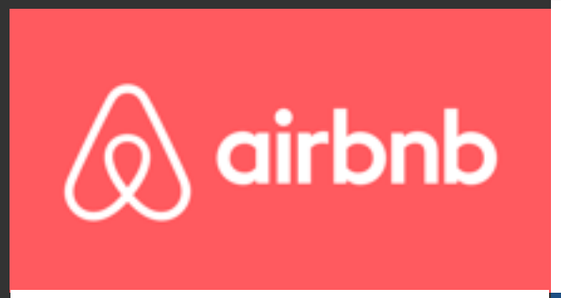
storylog
Storytelling Community

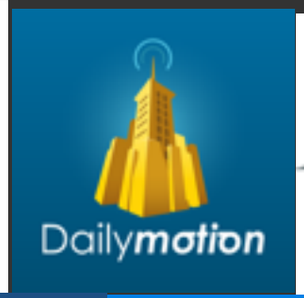
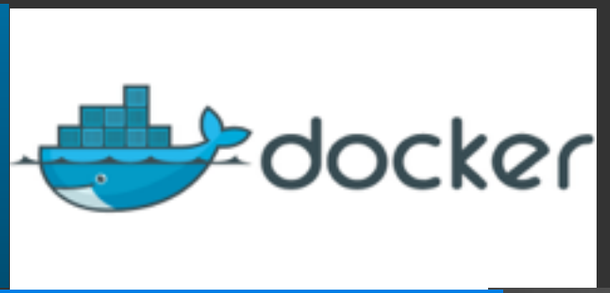
PayPal

Take me Tour

IGN

fictionlog
UNLEASH YOUR IMAGINATION
FICTIONLOG | FICTION PUBLISHING PLATFORM



```
// Sites using react
https://github.com/facebook/react/wiki/Sites-Using-React
```

How to start ReactJS project?

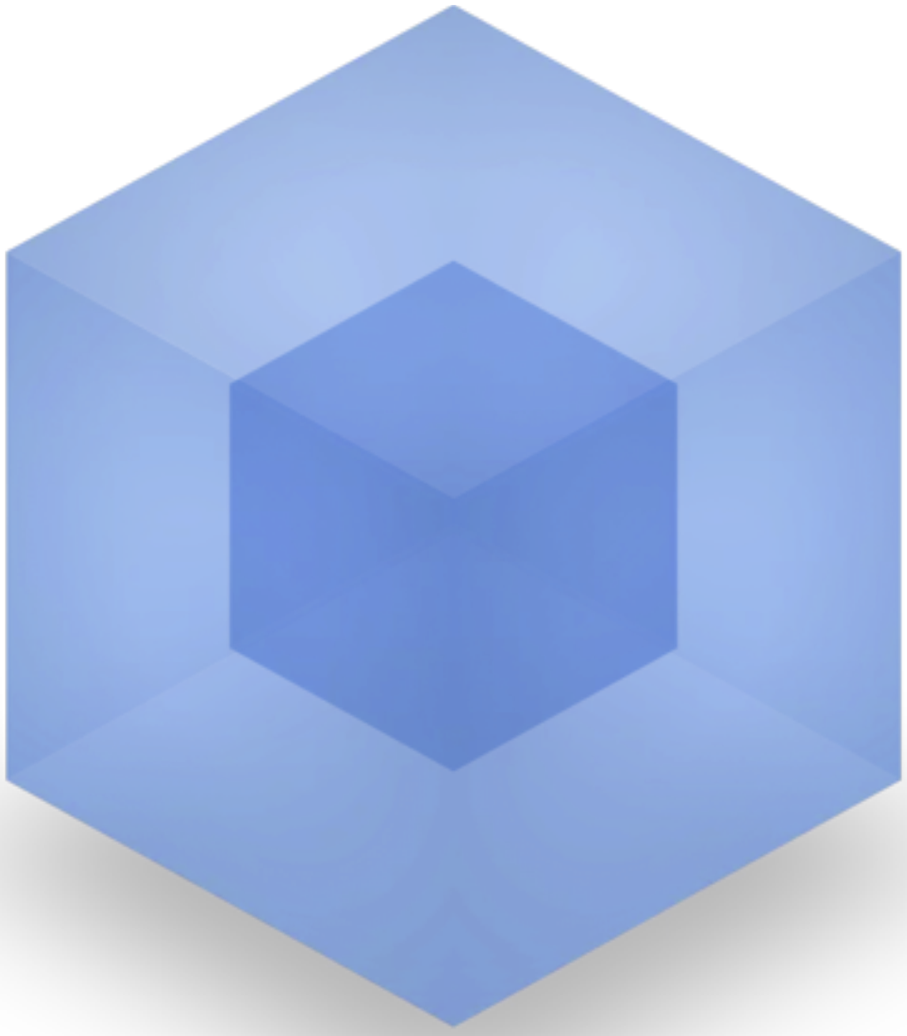
node
JS
TM

ES6

BABEL

ES6

BABEL



webpack

MODULE BUNDLER

k

UNDLER

ESLint

Dependencies

"autoprefixer"
"babel-core"
"babel-eslint"
"babel-jest"
"babel-loader"
"babel-plugin-syntax-async-functions"
"babel-plugin-syntax-trailing-function-commas"
"babel-plugin-transform-class-properties"
"babel-plugin-transform-object-rest-spread"
"babel-plugin-transform-react-constant-elements"
"babel-plugin-transform-regenerator"
"babel-plugin-transform-runtime"
"babel-preset-es2015"
"babel-preset-es2016"
"babel-preset-react"
"babel-runtime"
"case-sensitive-paths-webpack-plugin"
"chalk"
"connect-history-api-fallback"
"cross-spawn"
"css-loader"
"detect-port"
"eslint"
"eslint-loader"
"eslint-plugin-flowtype"
"eslint-plugin-import"
"eslint-plugin-jsx-a11y"
"eslint-plugin-react"
“extract-text-webpack-plugin"
"file-loader"
"filesize"
"fs-extra"
"gzip-size"
"html-loader"
"html-webpack-plugin"
"http-proxy-middleware"
“jest”
"json-loader"
"object-assign"
"opn"
"path-exists"
"postcss-loader"
"promise"
"recursive-readdir"
"rimraf"
"strip-ansi"
"style-loader"
"url-loader"
"webpack"
"webpack-dev-server"
"whatwg-fetch"

Dependencies

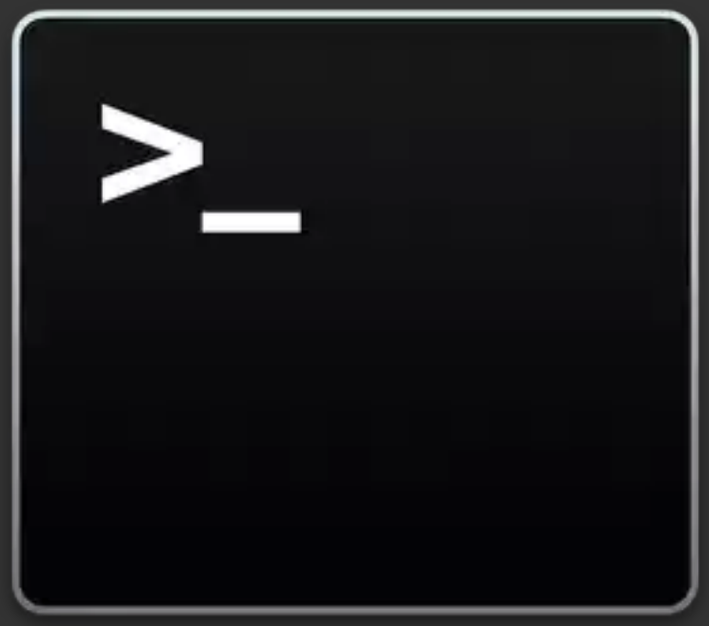
```
"autop
"babel
"babel
"babel
"babel
"babel
"babel
"babel
"babel
"babel
"babel
"babel
"babel
"case-
"chalk
"conne
"cross
"css-l
"detec
"eslin
"eslin
"eslint-plugin-flowtype"
"eslint-plugin-import"
```

```
in"
"whatwg-fetch"
```

Today

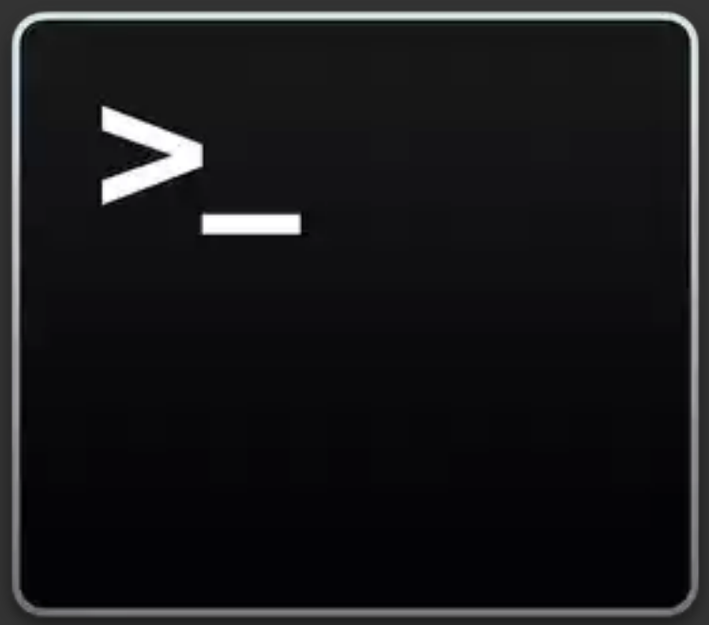
We have shortcut...

FB : คาราโอเกะชั้นใต้ดิน

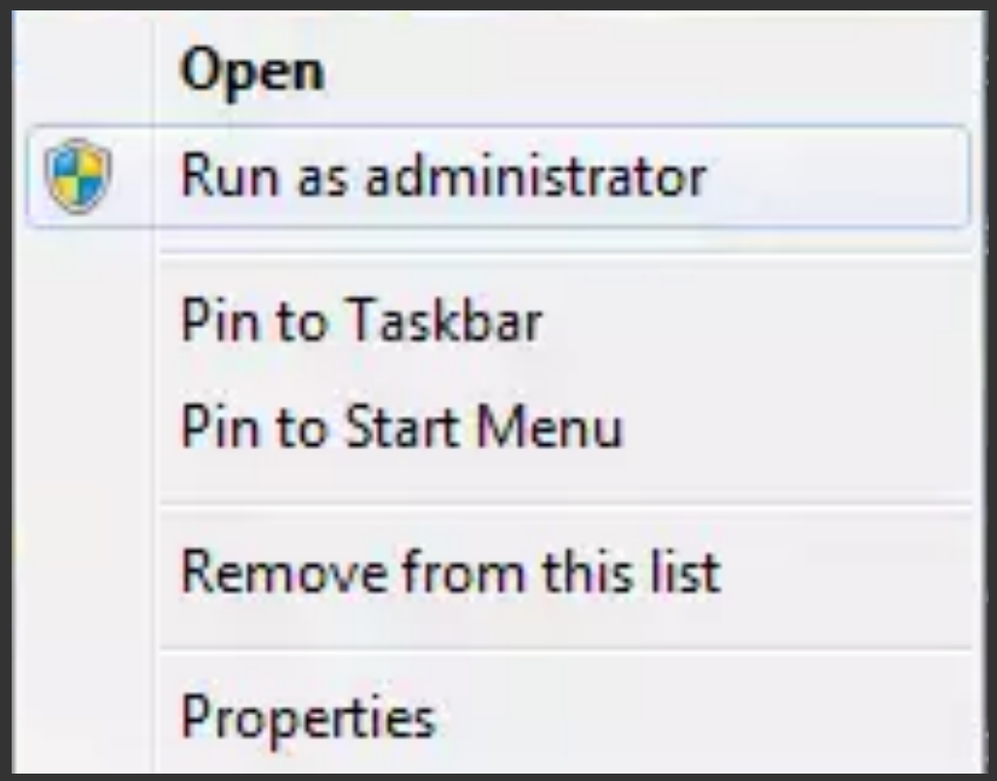


// Open Terminal

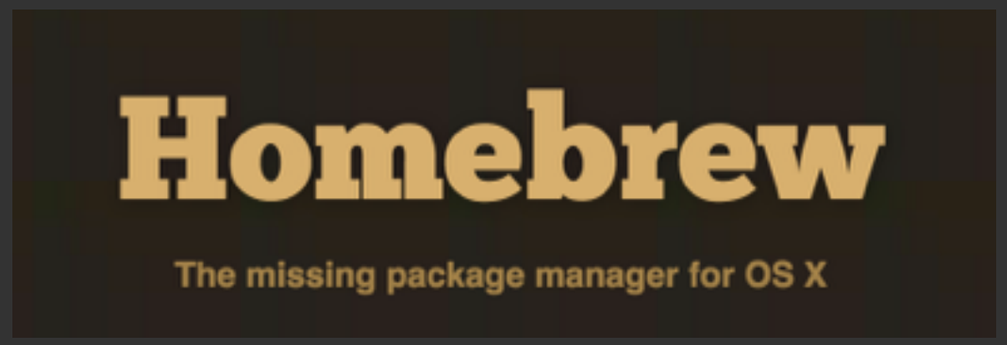
// Open CMD



// Open Terminal



// With run as admin




```
// Install Homebrew
/usr/bin/ruby -e "$
(curl -fsSL https://
raw.githubusercontent.c
om/Homebrew/install/
master/install)"
```

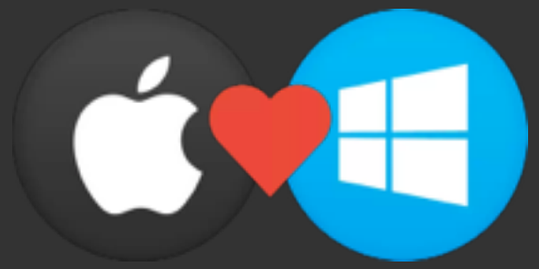
```
// Install Chocolatey
@powershell -NoProfile -
ExecutionPolicy Bypass -
Command "iex ((New-Object
System.Net.WebClient).Dow
nloadString('https://
chocolatey.org/
install.ps1'))" && SET
"PATH=%PATH%;
%ALLUSERSPROFILE%
\chocolatey\bin"
```

```
// Install nodeJS
$ brew install node
```

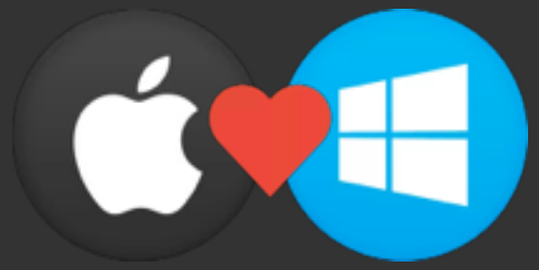
```
// Install nodeJS
> choco install nodejs.install
```

```
// Install nodeJS
$ brew install node

// Check nodeJS version
$ node -v
v6.4.0
```

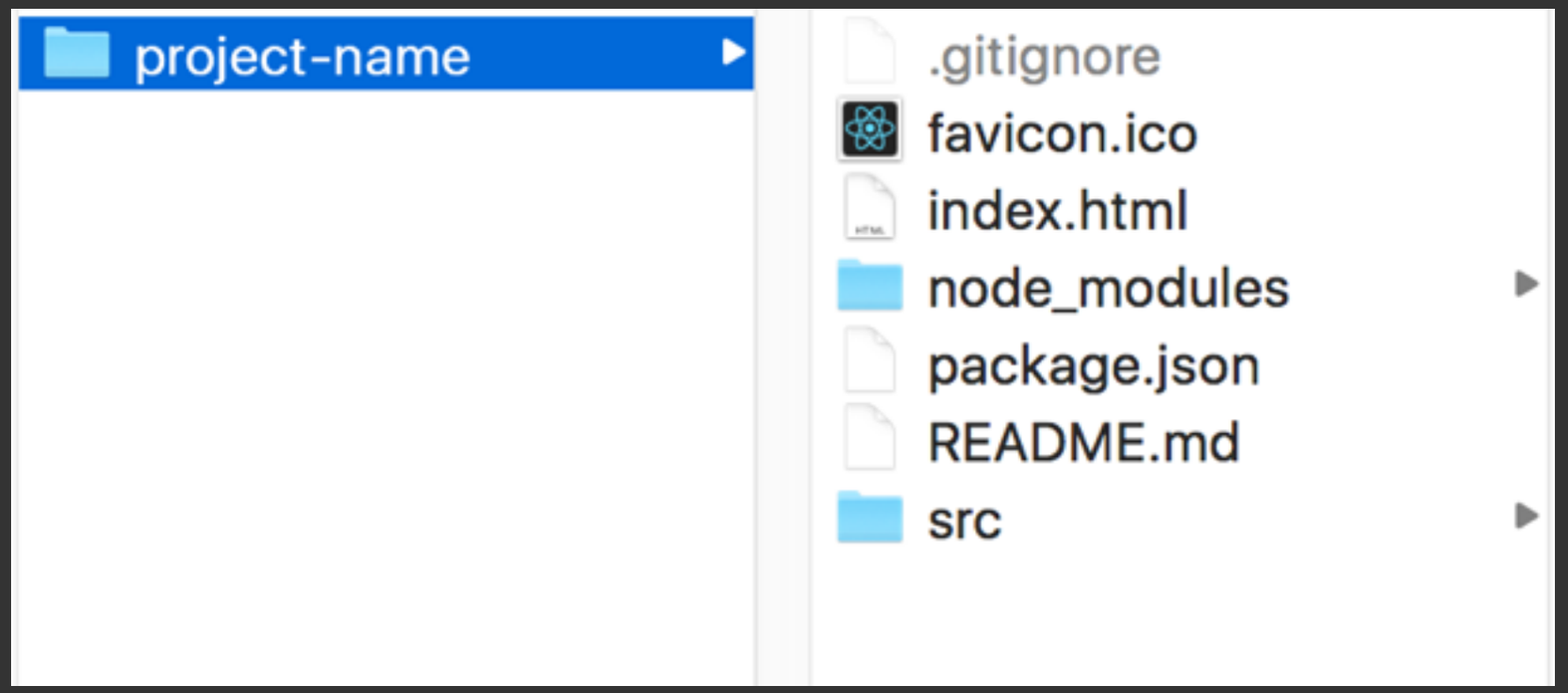
```
// Install nodeJS
> choco install nodejs.install

// Check nodeJS version
> node -v
v6.4.0
```

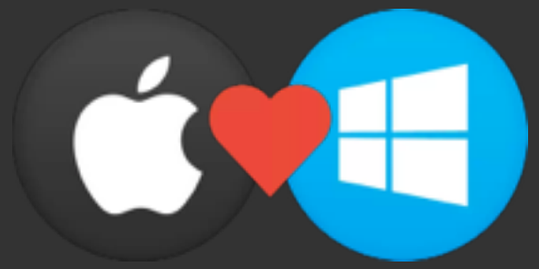


```
// Install create-react-app
$ npm install -g create-react-app
```

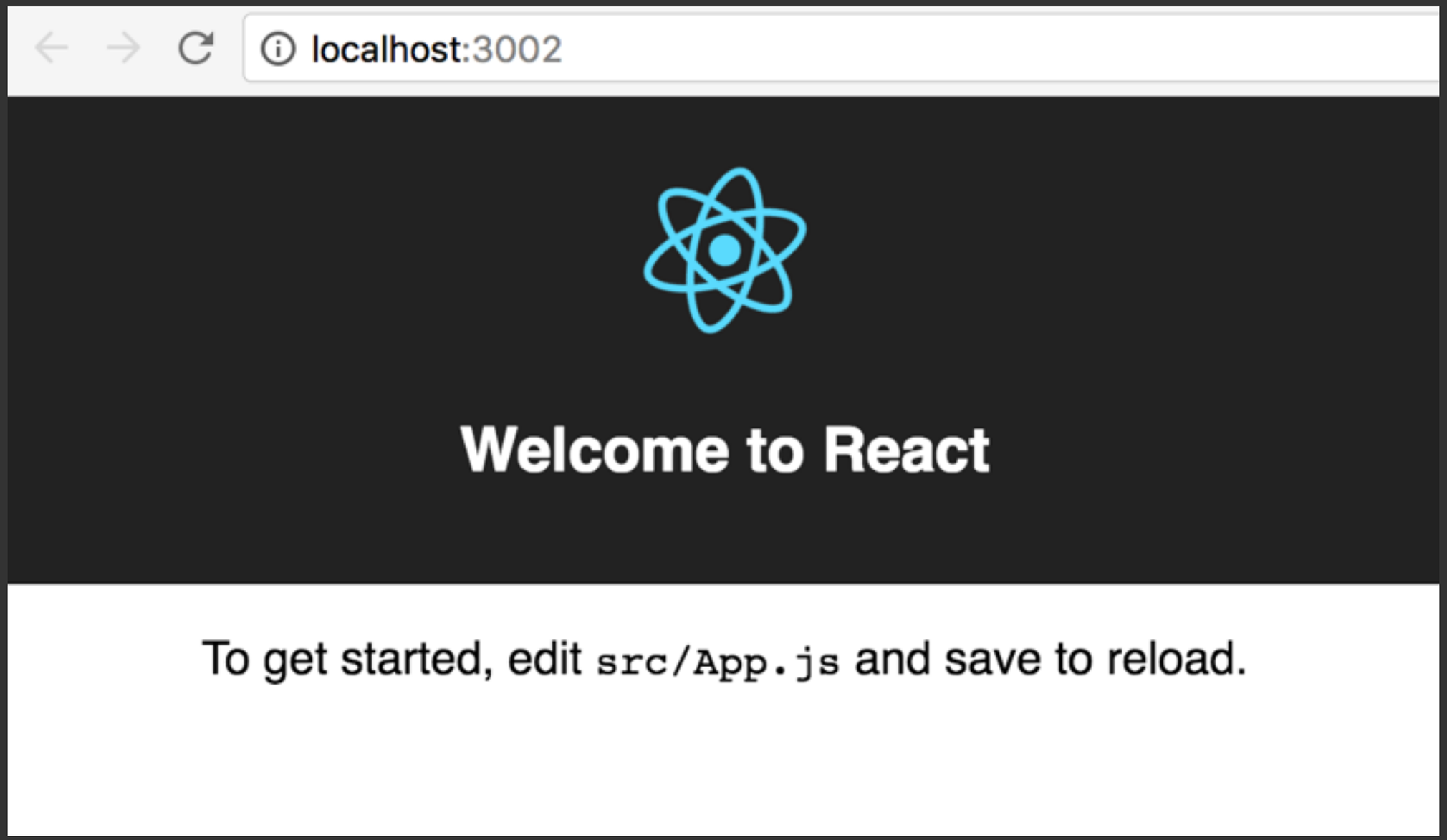


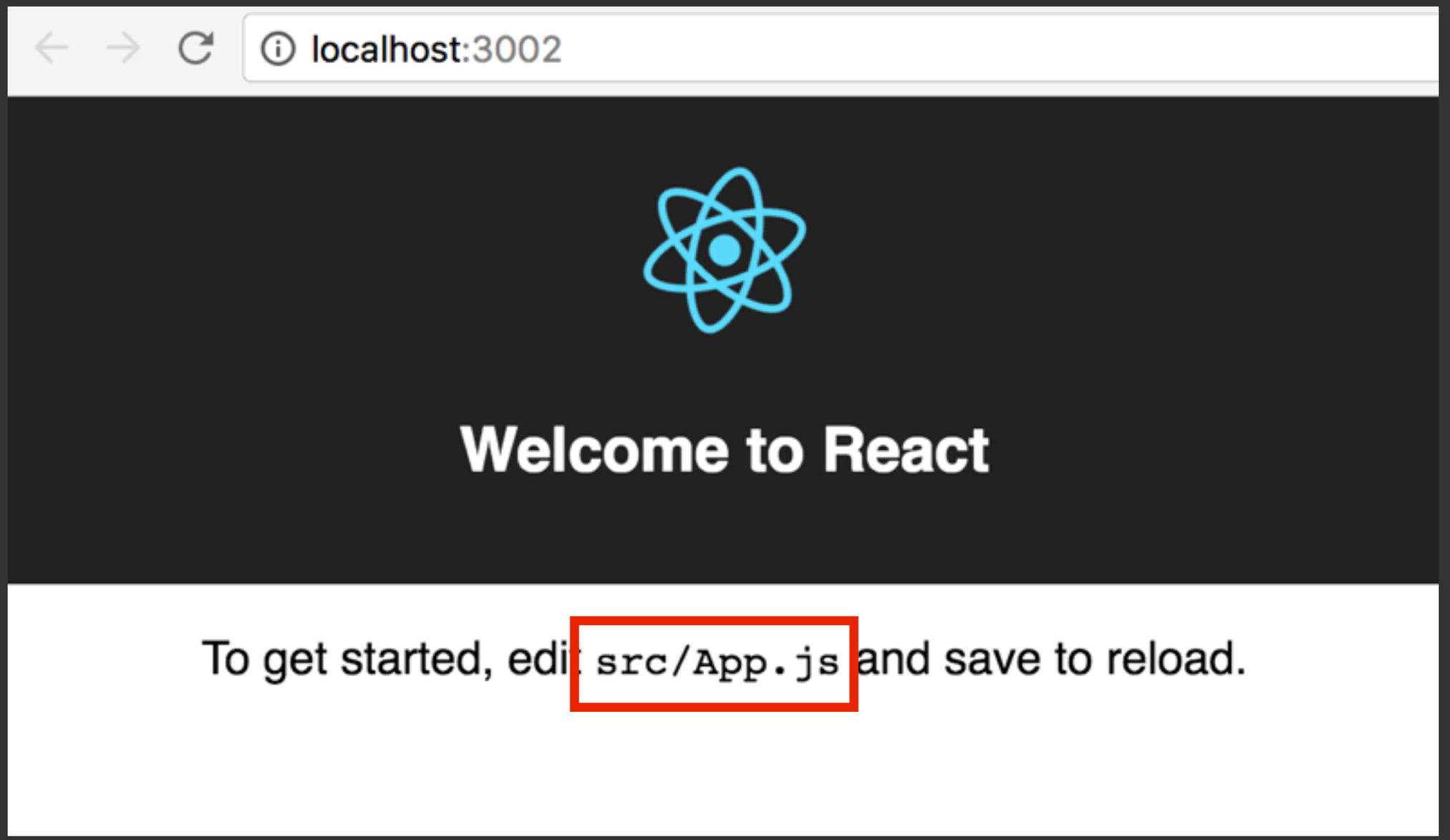
```
// Install create-react-app
$ npm install -g create-react-app

// Create react project
$ create-react-app project-name
```





```
// Install create-react-app
$ npm install -g create-react-app

// Create react project
$ create-react-app project-name

// Go to project folder
$ cd project-name

// Start develop
$ npm start
```


localhost:3002
Welcome to React
To get started, edit src/App.js and save to reload.


localhost:3002
Welcome to React
To get started, edit src/App.js and save to reload.

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } from 'react';
import logo from './logo.svg'
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <p>
            Edit <code>src/App.js</code> and save to reload.
          </p>
      </div>
    );
  }
}
export default App;
```

```
// ES6 for humans
https://github.com/metagrover/ES6-for-humans
```

Assets

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
import React, { Component } fro
import logo from './logo.svg';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-hea
          <img src={logo} class
          <h2>Welcome to React<
        </div>
        <p className="App-intro
          To get started, edit
        </p>
      </div>
    );
  }
}
export default App;
```

```
// App.css

.App {
  text-align: center;
}

.App-logo {
  animation: App-logo-spin infinite 20s linear;
  height: 80px;
}

.App-header {
  background-color: #222;
  height: 150px;
  padding: 20px;
  color: white;
}

.App-intro {
  font-size: large;
}
```

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';

class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h2>Welcome to React</h2>
        </div>
        <p className="App-intro">
          To get started, edit <code>src/App.js</code> and save to reload.
        </p>
      </div>
    );
  }
}
export default App;
```

```
// App.js
class App extends Component {
  render() {
    return (
      <div className="App"
        <div className="App-header">
          <h2>Hello world</h2>
        </div>
    );
  }
}
export default App;
```

```
// App.js
class App extends Component {
```

```
Failed to compile.

Error in ./src/App.js
Syntax error: /Users/buffaly/work/test_reactJS_create/project-name/src/App.js:
Unexpected token (9:8)
   7 |     return (
   8 |       <div className="App"
>  9 |         <div className="App-header">
     |         ^
  10 |           <h2>Hello world</h2>
  11 |         </div>
  12 |       </div>
  @ ./src/index.js 11:11-27
```

```
}
export default App;
```

```
// App.js
class App extends Component {
  Failed to compile.

  Error in ./src/App.js
  Syntax erro                                                    rc/App.js:
  Unexpected
     7 |
     8 |
  >  9 |
       |
    10 |
    11 |
    12 |          </div>
   @ ./src/index.js 11:11-27

}
export default App;
```

```
// App.js
class App extends Component {
  render() {
    return (
      <div className="App">
        <div className="App-header">
          <h2>Hello world</h2>
        </div>
      );
  }
}
export default App;
```

```
// App.js
class App extends Component {
  render() {
    return (
      <div>
    );
  }
}
export default App;
```

```
/Users/buffaly/work/test_reactJS_create/project-name/src/App.js
  2:8  warning  'logo' is defined but never used  no-unused-vars

✖ 1 problem (0 errors, 1 warning)
```

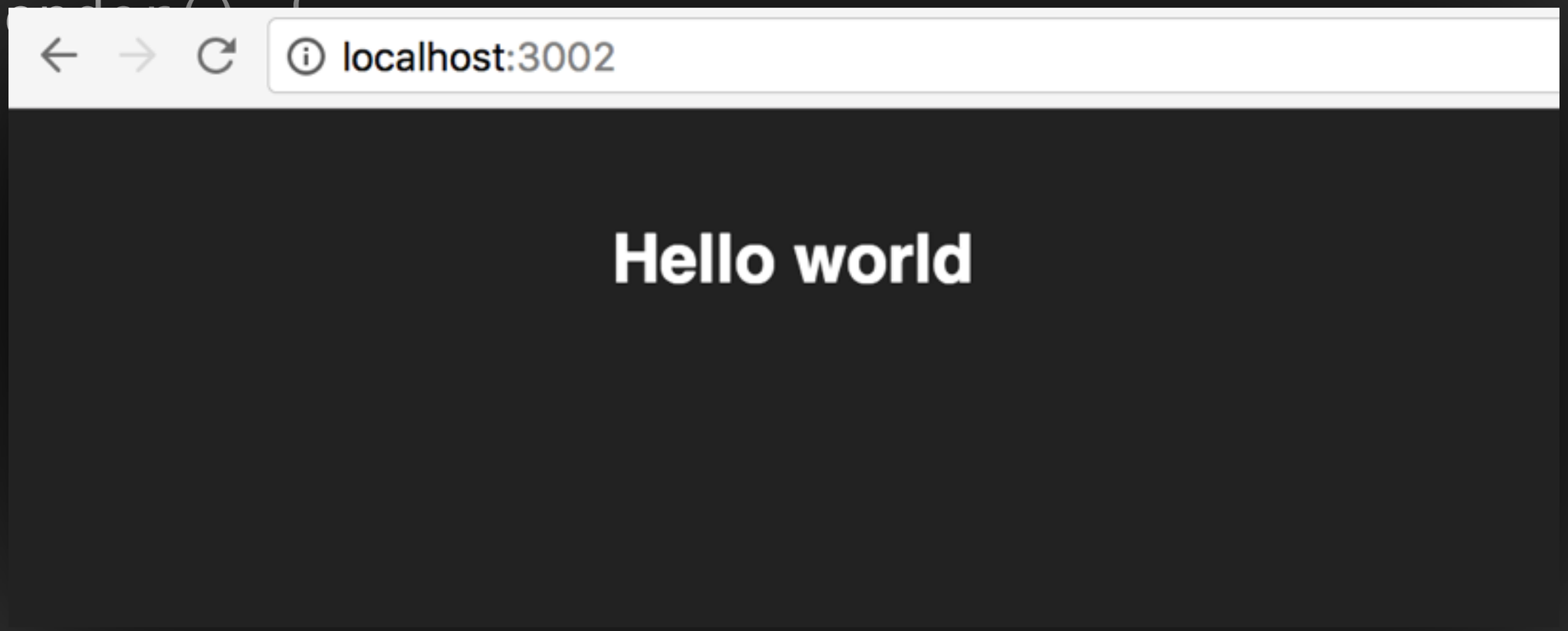
```
// App.js
class App extends Component {
  render() {
    return (
```

```
/Users/
  2:8

✖ 1 pr
```

```
// ESlint
https://github.com/airbnb/javascript
```

```
      </div>
    );
  }
}
export default App;
```

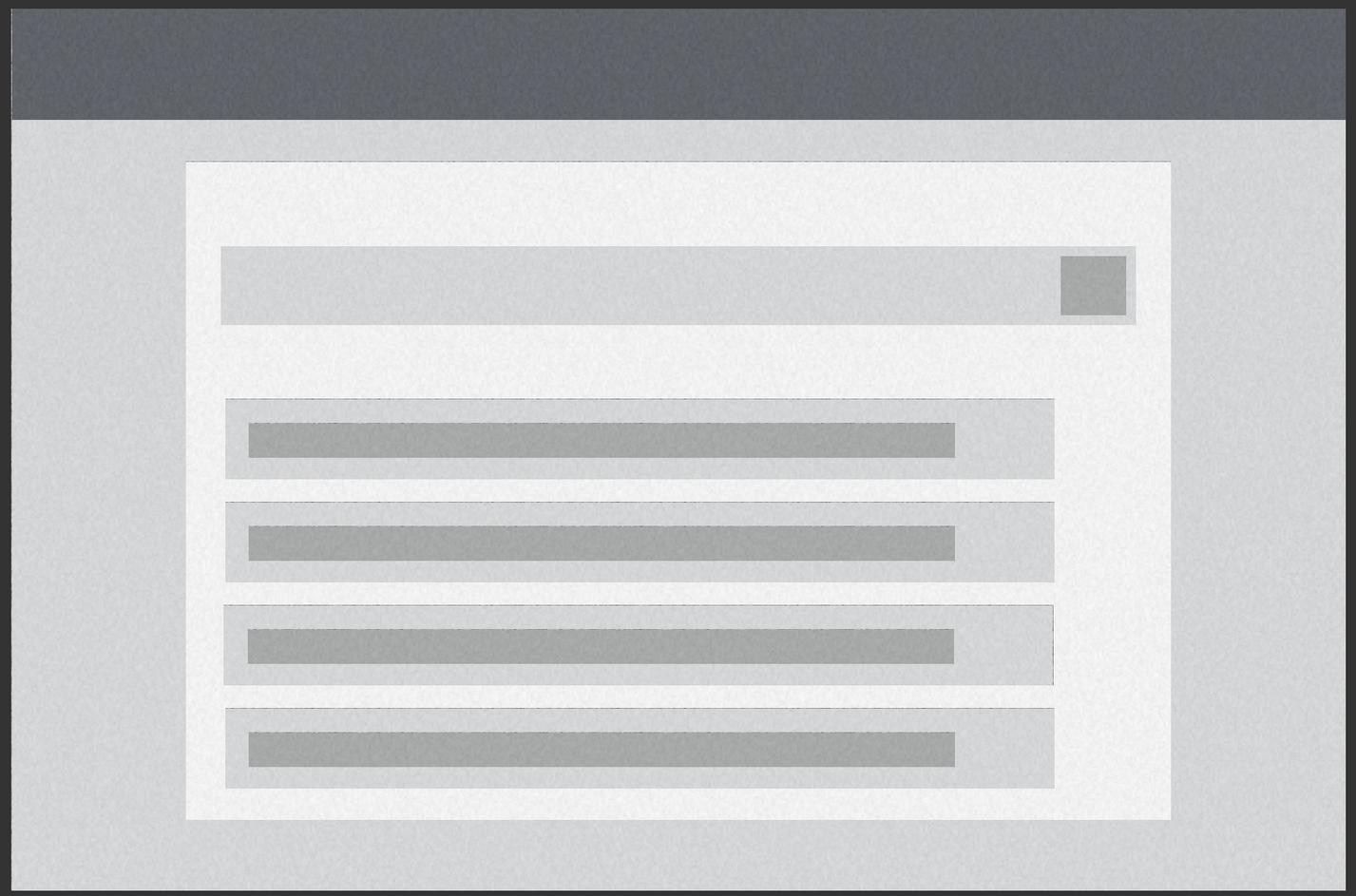
```
// App.js
class App extends Component {
  r
```




```
  }
}
export default App;
```

Example

To-do-list



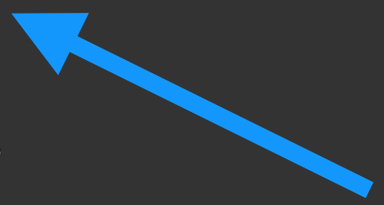
How to create component

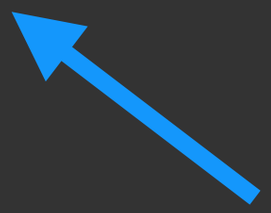
```
// Todo.js

import React, { Component } from 'react';

export class Todo extends Component {
  render() {
    return (
      <div></div>
    );
  }
}
```

```
// Todo.js

import React, { Component } from 'react';

export class Todo extends Component {
  render() {
    return (
      <div></div>
    );
  }
}
```

```
// Todo.js

import React, { Component } from 'react';

export class Todo extends Component {
  render() {
    return (
      <div>
        <h1>New component</h1>
      </div>
    );
  }
}
```

```
// App.js
import React, { Component } from 'react';
import './App.css';

import {Todo} from './Todo';

class App extends Component {
  render() {
    return (
      <div className="App">
        <Todo />
      </div>
    );
  }
}

export default App;
```





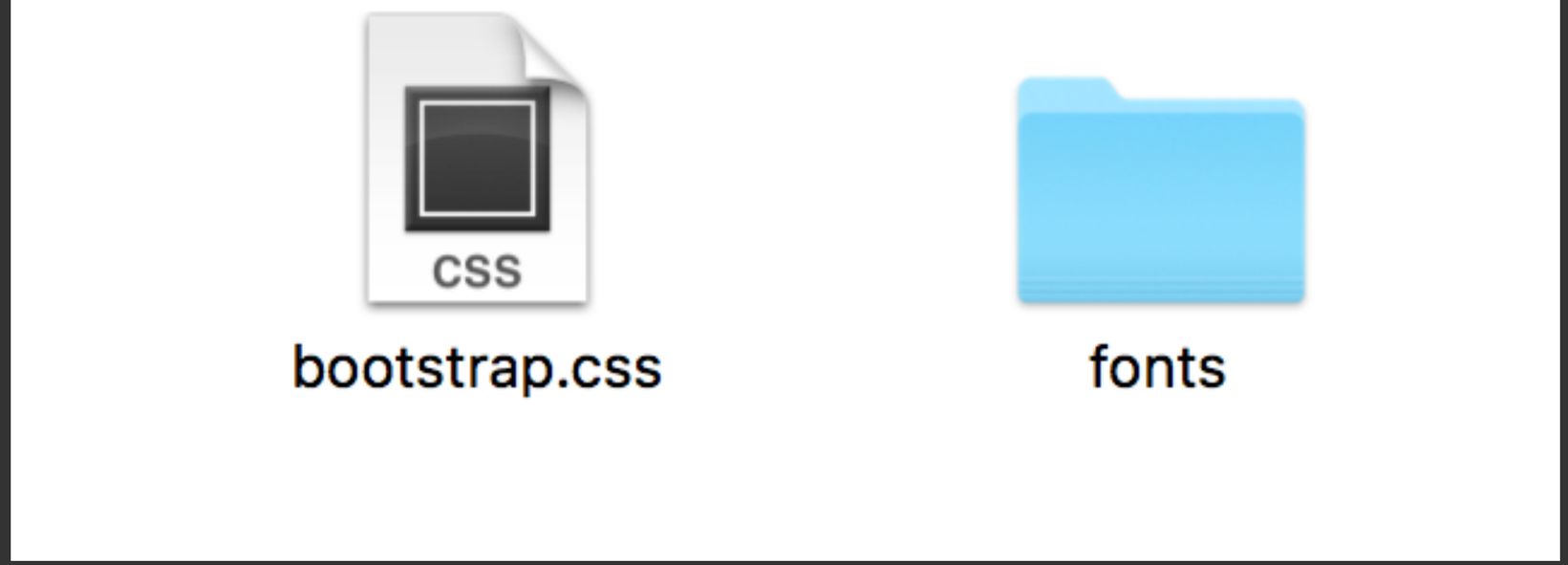
```jsx
// App.js
import React, { Component } from 'react';
import './App.css';

import {Todo} from './Todo';

class App extends Component {
  render() {
    return (
      <div className="App">
        <Todo />
      </div>
    );
  }
}

export default App;
```

```jsx
// Todo.js

import React, { Component

export class Todo extends
  render() {
    return (
      <div></div>
    );
  }
```

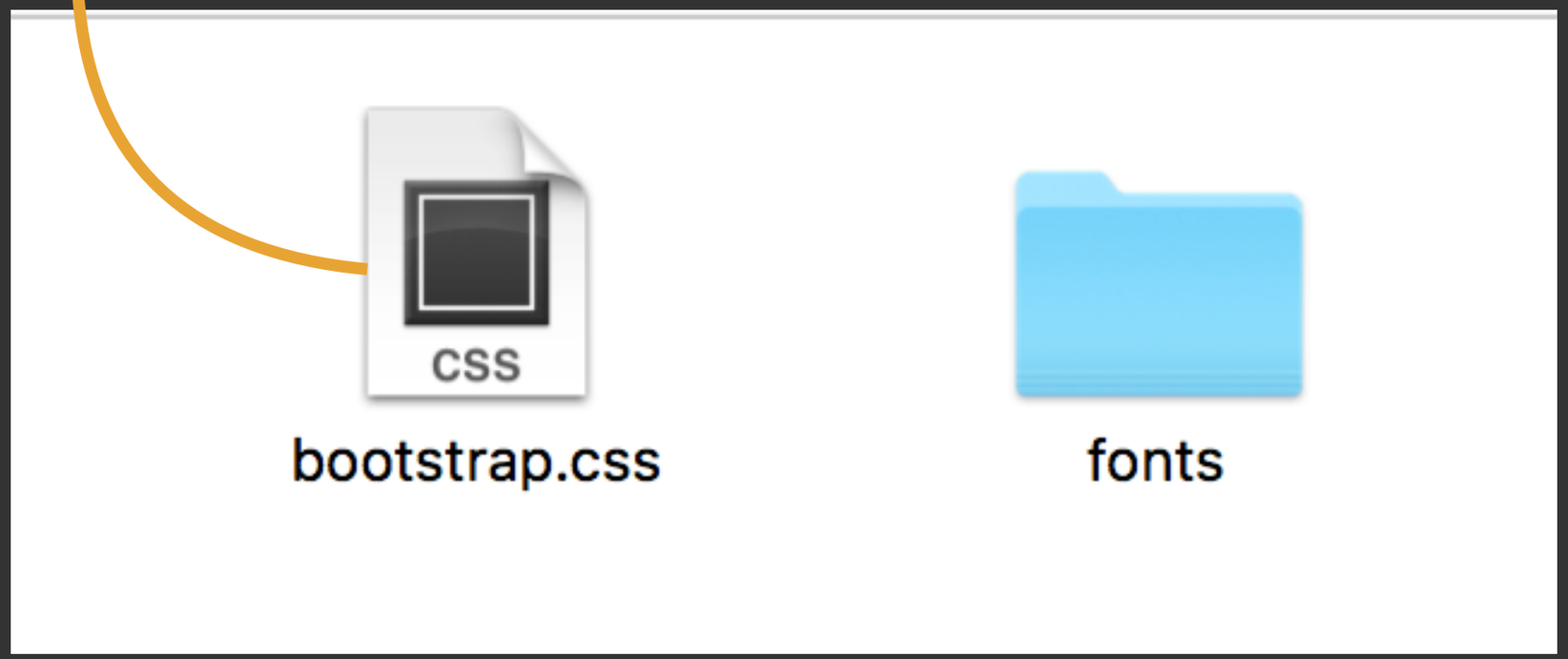
```
// App.js
import React, { Component } from 'react';
import './App.css';

import {Todo, ComponentName, ...} from './Todo';

class App extends Component {
  render() {
    return (
      <div className="App">
        <Todo />
      </div>
    );
  }
}

export default App;
```

localhost:3000
New component

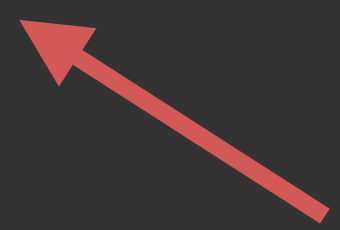
How to use bootstrap in react project


CSS
bootstrap.css
fonts

```
// Change path file
../fonts => ./font
```



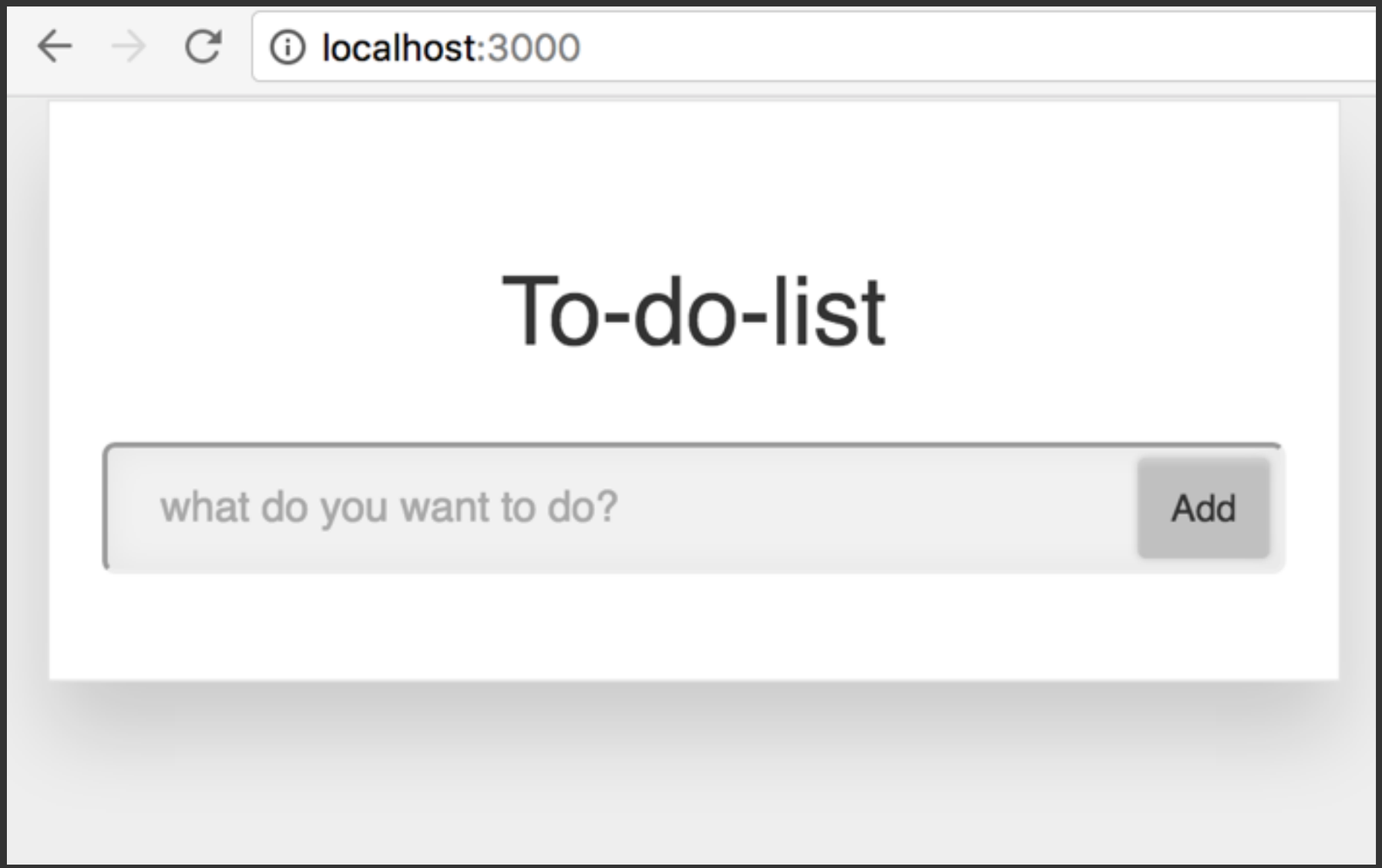
```
// Todo.js

import React, { Component } from 'react';
import './bootstrap.css';
import ‘./Todo.css';

...
```



```
// Todo.js
...

export class Todo extends Component {
  render() {
    return (
     <div class="card clearfix">
         <div class="to-do-box">
             <h1 class="title">To-do-list</h1>
             <div class="form-box">
                 <input class="input input" type="text">
                 <button class="bb-input button">
                     Add
                 </button>
             </div>
         </div>
     </div>
    );
  }
}
```

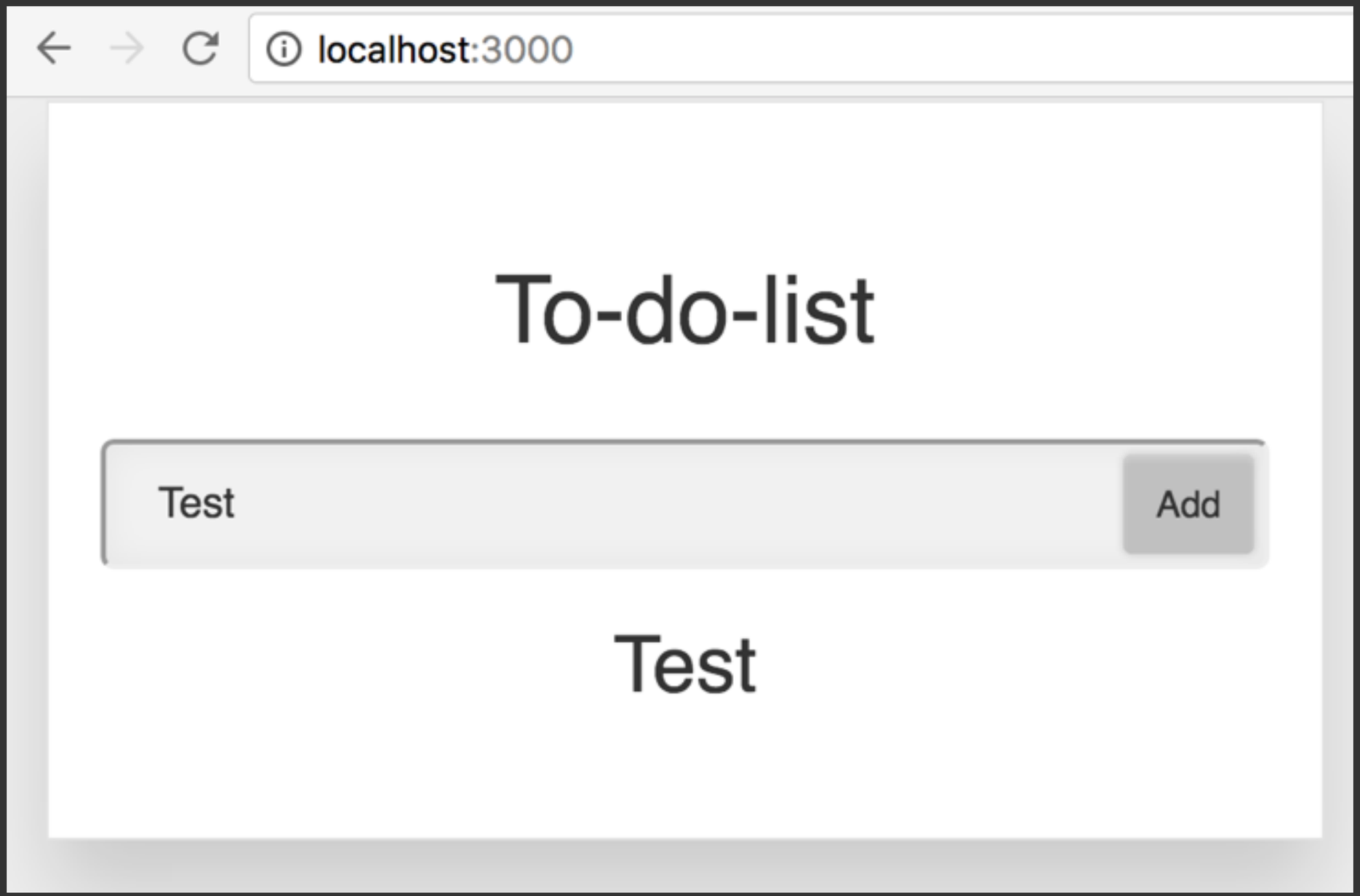
```
// Todo.js
...

export class Todo extends Component {
  render() {
    return (
     <div className="card clearfix">
         <div className="to-do-box">
             <h1 className="title">To-do-list</h1>
             <div className="form-box">
                 <input className="input input" type=“text"/>
                 <button className="bb-input button">
                     Add
                 </button>
             </div>
         </div>
     </div>
    );
  }
}
```

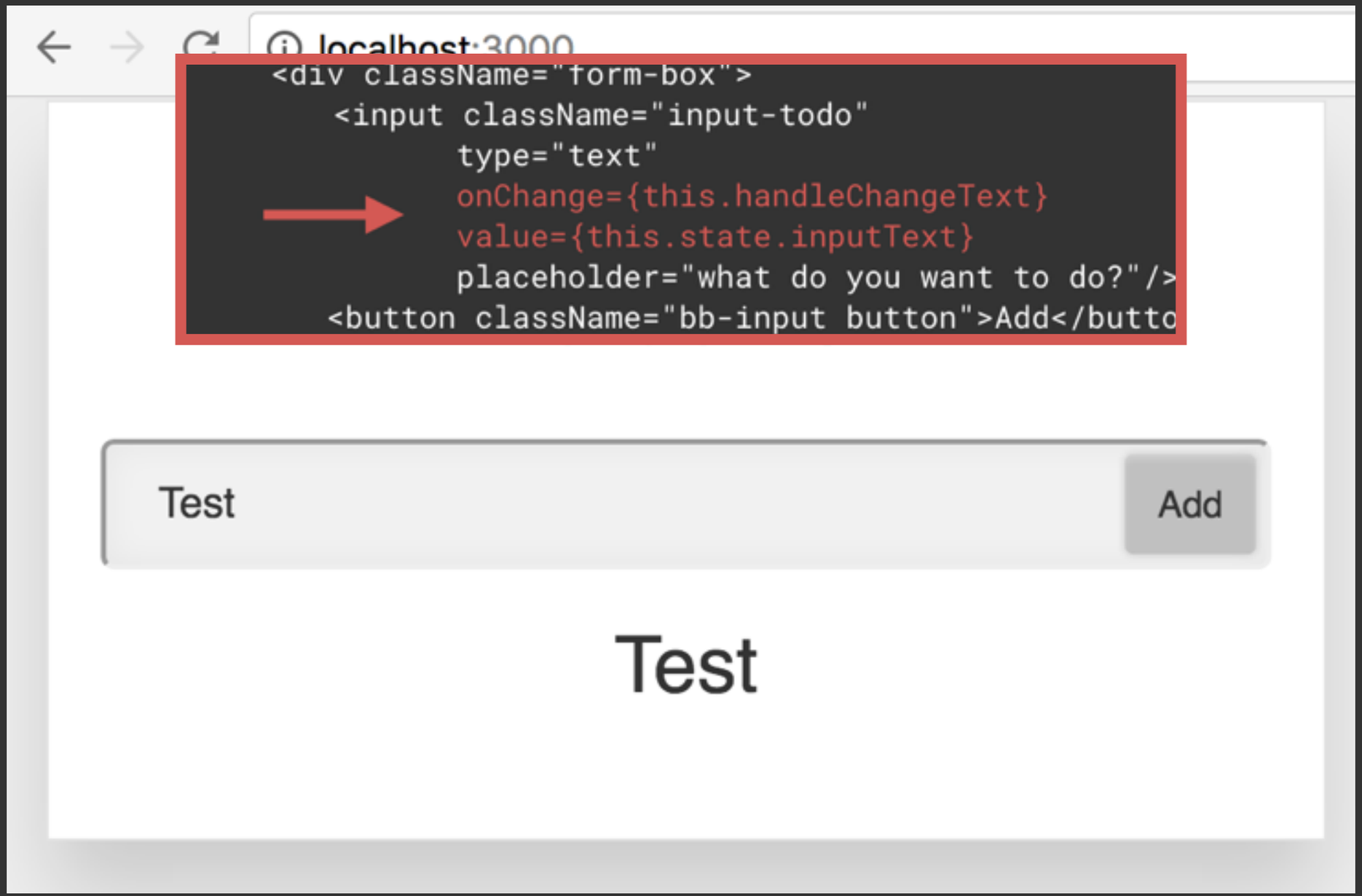
~~class~~ => className
close tag


localhost:3000
To-do-list
what do you want to do?
Add

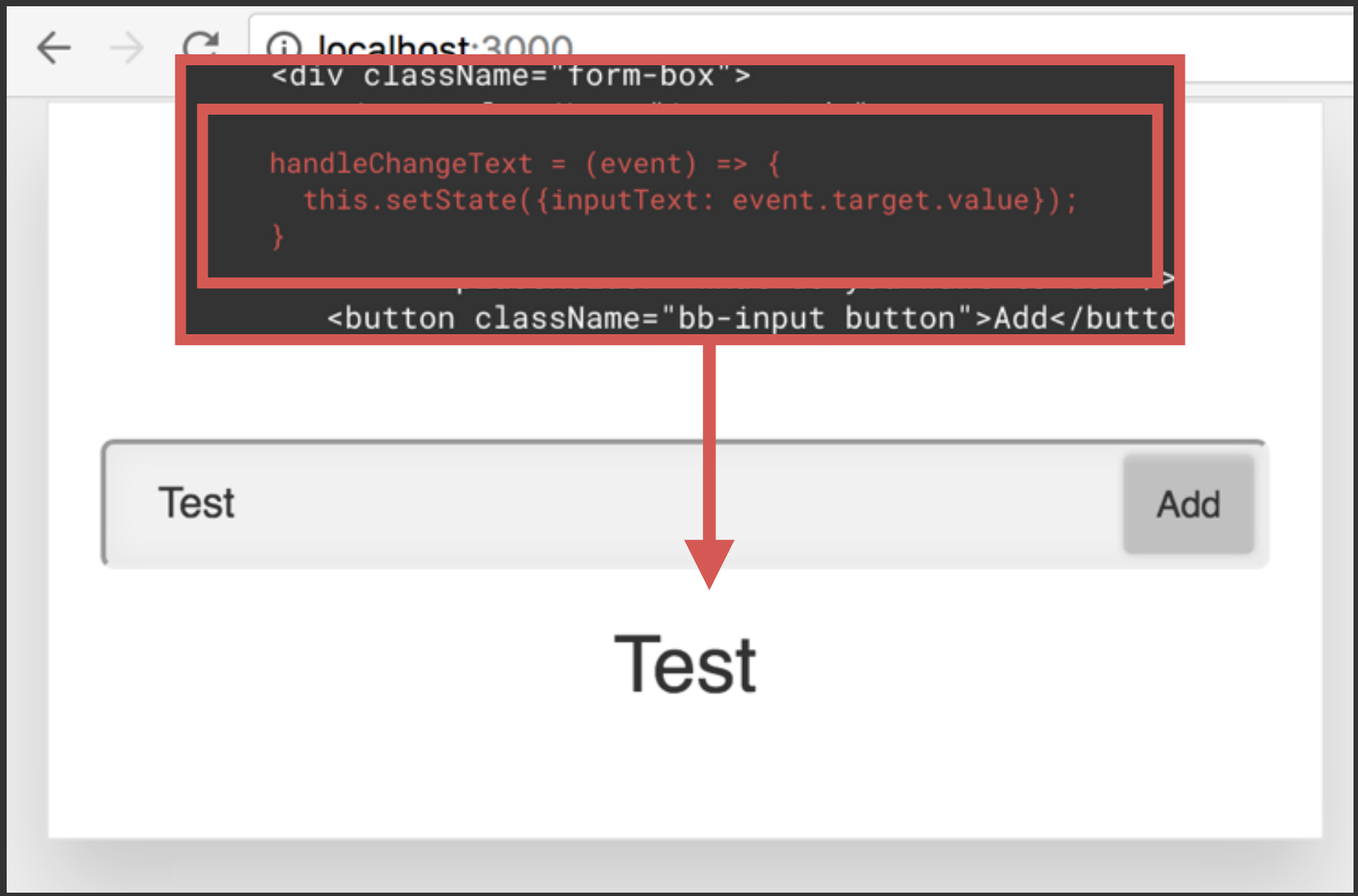
```
// Todo.js
...

export class Todo extends Component {

  state = {
    inputText: ''
  }

  handleChangeText = (event) => {
    this.setState({inputText: event.target.value});
  }

  render() {

...
```

```
// Todo.js
...

 render() {
    return (
      <div className="card clearfix">
        <div className="to-do-box">
           <h1 className="title">To-do-list</h1>
           <div className="form-box">
              <input className="input-todo"
                     type="text"
                     onChange={this.handleChangeText}
                     value={this.state.inputText}
                     placeholder="what do you want to do?"/>
             <button className="bb-input button">Add</button>
           </div>
          <h2>{this.state.inputText}</h2>
      </div>
    </div>
    );
  }

...
```

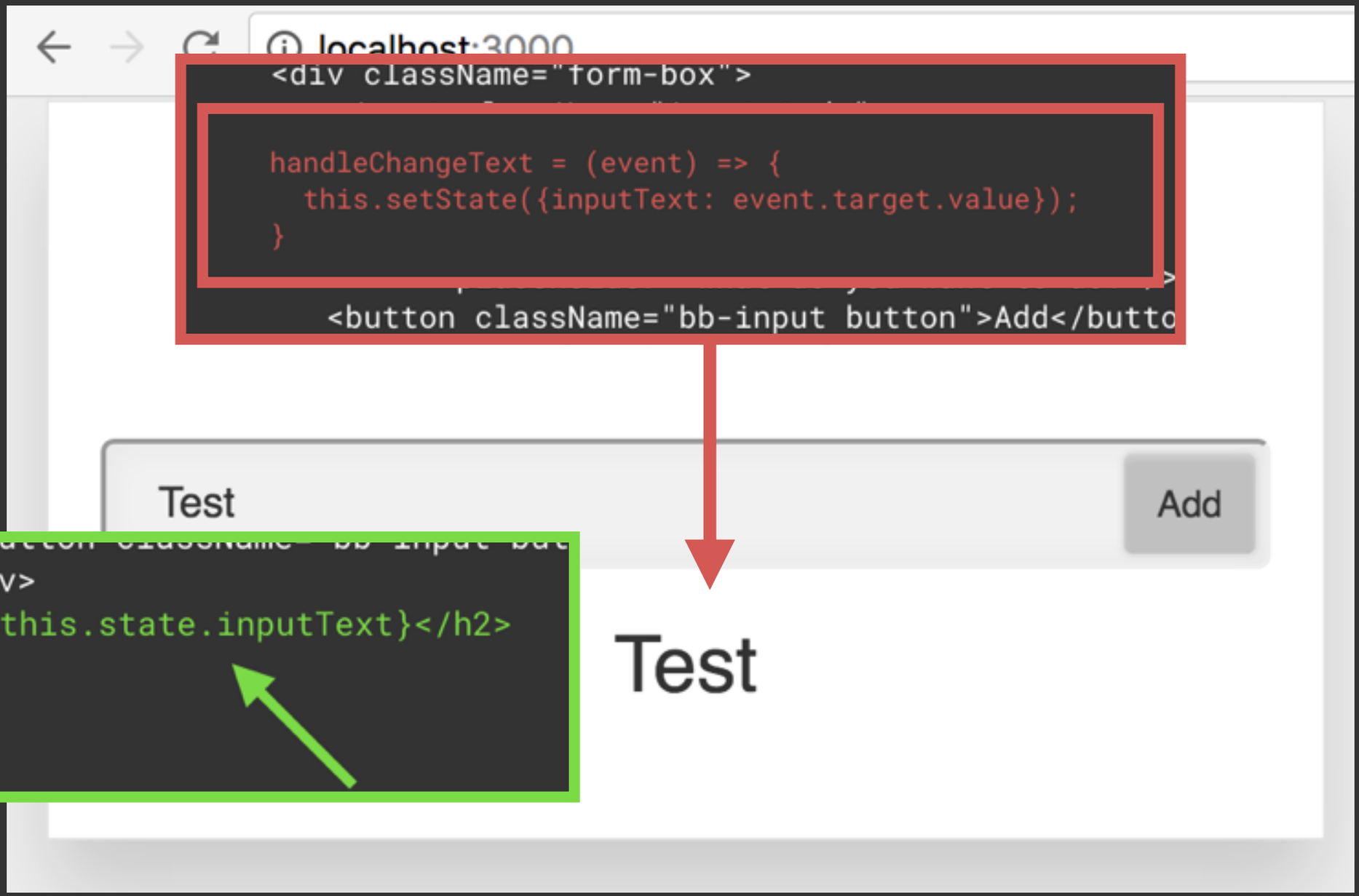

localhost:3000
To-do-list
Test
Add
Test



<input className="input-todo"
type="text"
onChange={this.handleChangeText}
value={this.state.inputText}
placeholder="what do you want to do?"/>
<button className="bb-input button">Add</butto
Test
Add
Test



handleChangeText = (event) => {
this.setState({inputText: event.target.value});
}
<button className="bb-input button">Add</butto
Test
Add
Test


localhost:3000

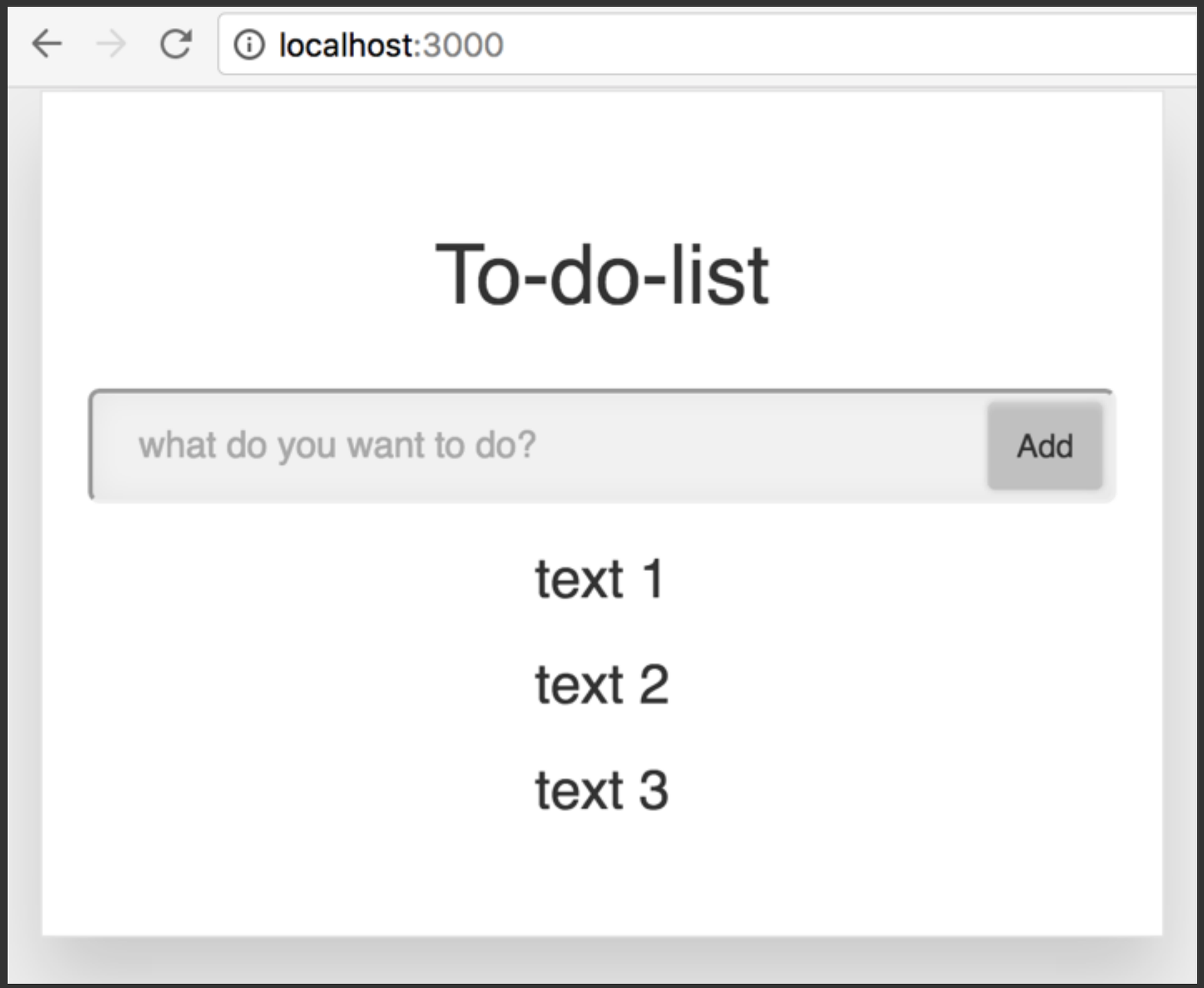
handleChangeText = (event) => {
this.setState({inputText: event.target.value});
}
<button className="bb-input button">Add</butto
Test
Add

<h2>{this.state.inputText}</h2>
/div>
v>
Test

```
// Todo.js
...

  state = {
    inputText: '',
    listItem: []
  }

  submitList = () => {
    this.setState({
      listItem: this.state.listItem.concat([this.state.inputText]),
      inputText: ''
    })
  }

  handleKeyPress = (event) => {
    if (event.key === 'Enter') {
      this.submitList();
    }
  }

...
```

```
// Todo.js
...
    render() {
      return (
        <div className="card clearfix">
            <div className="to-do-box">
                <h1 className="title">To-do-list</h1>
                <div className="form-box">
                    <input className="input-todo"
                           type="text"
                           onChange={this.handleChangeText}
                           value={this.state.inputText}
                           placeholder="what do you want to do?"
                           onKeyPress={this.handleKeyPress}/>
                    <button className="bb-input button"
                           onClick={this.submitList}>Add</button>
                </div>
                {
                  this.state.listItem.map((value, index) => {
                    return (
                      <h3 key={index + value}>{value}</h3>
                    );
                  })
                }
            </div>
        </div>
    );
}
```

```
// Todo.js
...
    render() {
      return (
        <div className="card clearfix">
            <div className="to-do-box">
                <h1 className="title">To-do-list</h1>
                <div className="form-box">
                    <input className="input-todo"
                           type="text"
                           onChange={this.handleChangeText}
                           value={this.state.inputText}
                           placeholder="what do you want to do?"
                           onKeyPress={this.handleKeyPress}/>
                    <button className="bb-input button"
                           onClick={this.submitList}>Add</button>
                </div>
                {
                  this.state.listItem.map((value, index) => {
                    return (
                      <h3 key={index + value}>{value}</h3>
                    );
                  })
                }
            </div>
        </div>
    );
}
```

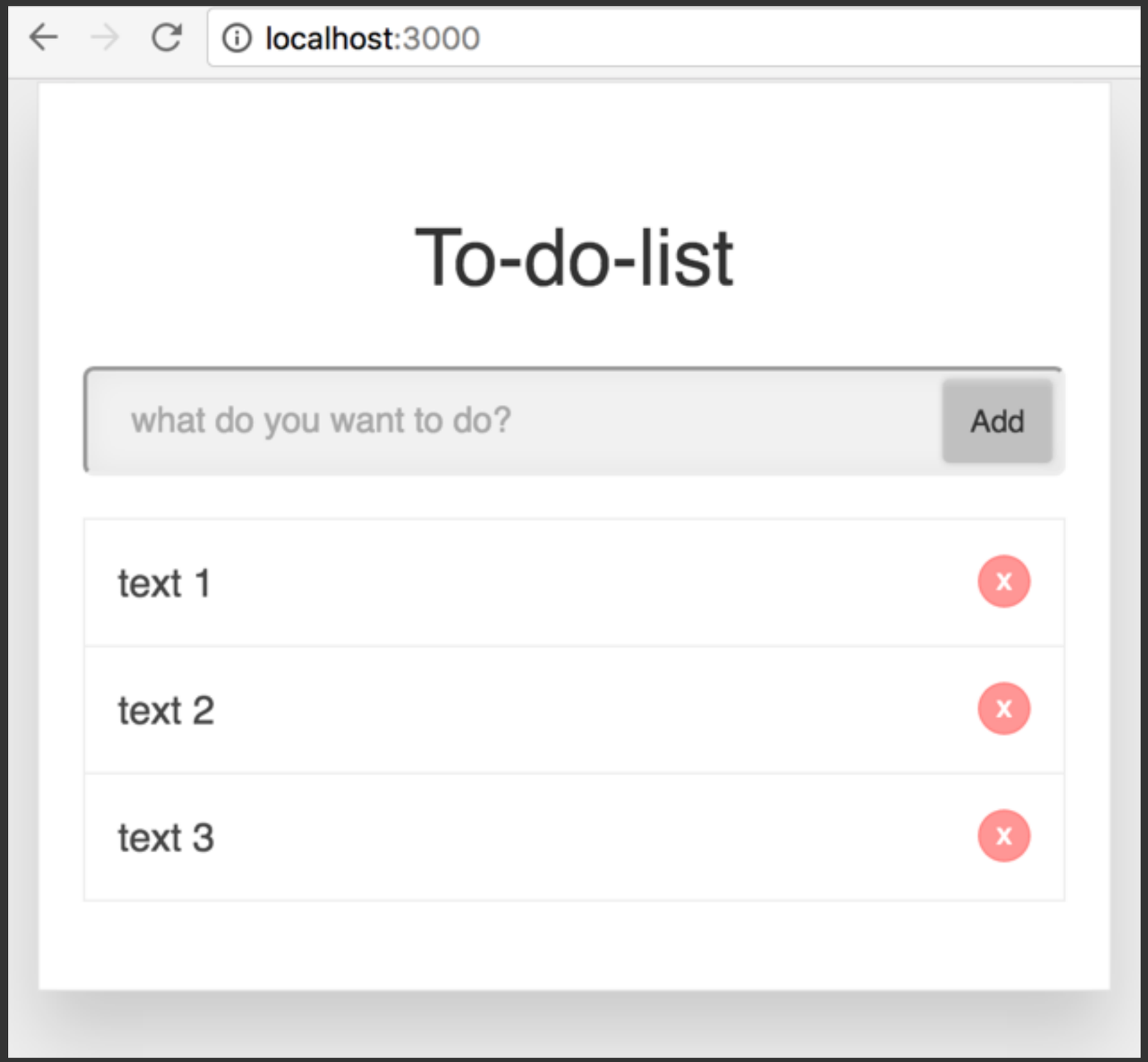

localhost:3000
To-do-list
what do you want to do?
Add
text 1
text 2
text 3

```
// Todo.js
...
    render() {
      return (
        <div className="card clearfix">
            <div className="to-do-box">
                <h1 className="title">To-do-list</h1>
                <div className="form-box">
                    <input className="input-todo"
                           type="text"
                           onChange={this.handleChangeText}
                           value={this.state.inputText}
                           placeholder="what do you want to do?"
                           onKeyPress={this.handleKeyPress}/>
                    <button className="bb-input button"
                           onClick={this.submitList}>Add</button>
                </div>
                {
                  this.state.listItem.map((value, index) => {
                    return (
                      <h3 key={index + value}>{value}</h3>
                    );
                  })
                }
            </div>
        </div>
    );
}
```

```
// Todo.js
...
    render() {
      return (
```

```
<div className="list-box">
    {this.state.listItem.map((value, index) => {
        return (
            <div key={index + value} className="list-item">
                <div className="text-list">{value}</div>
                <div className="bb-action">x</div>
            </div>
        );
    })}
</div>
```

```
            {
              this.state.listItem.map((value, index) => {
                return (
                  <h3 key={index + value}>{value}</h3>
                );
              })
            }
        </div>
    </div>
  );
}
```


localhost:3000
To-do-list
what do you want to do?
Add
text 1
text 2
text 3

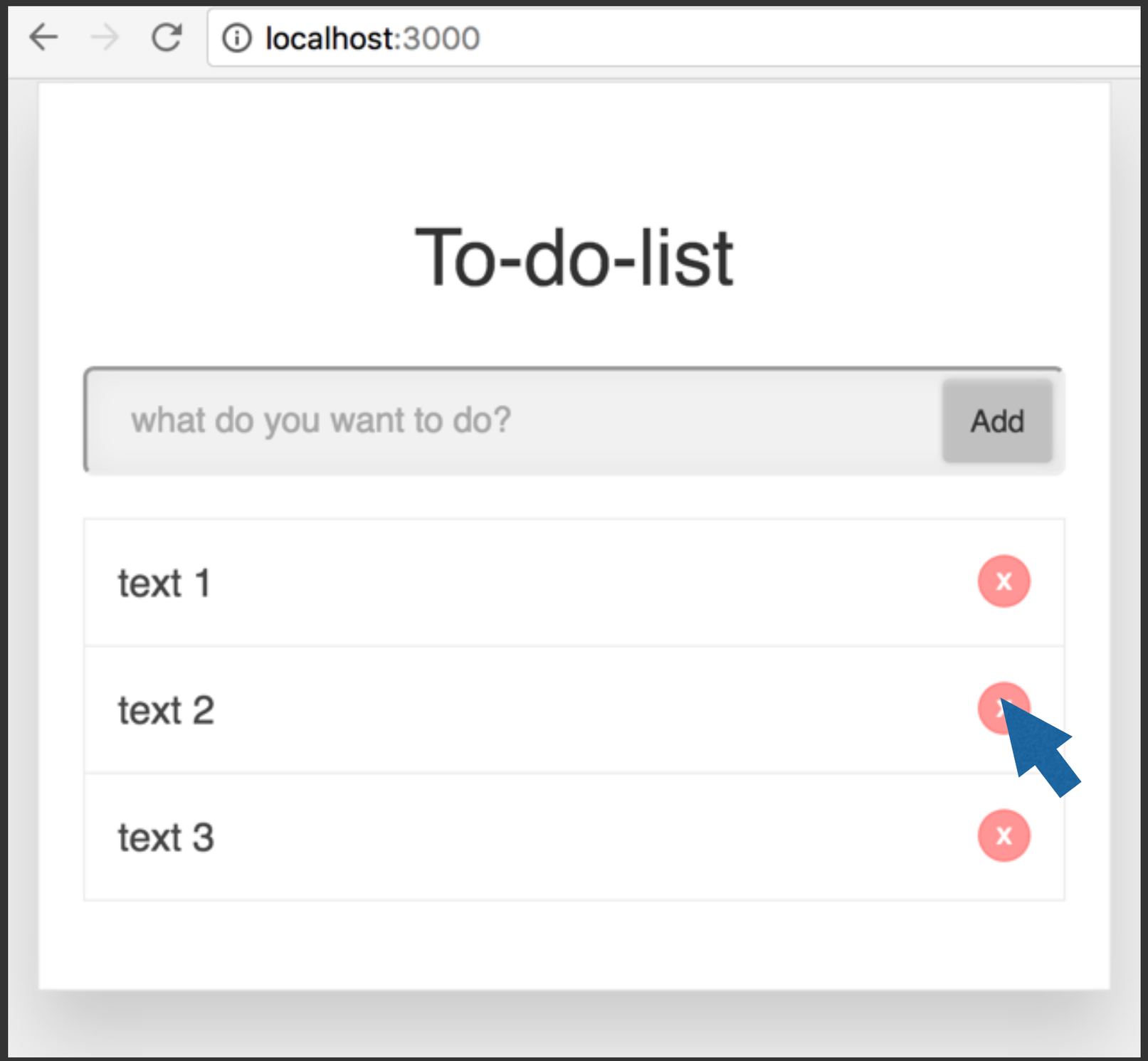
```
// Todo.js
...

  deleteListAtIndex = (index) => {
    this.state.listItem.splice(index, 1);
  }

...
```

```
// Todo.js
...

{this.state.listItem.map((value, index) => {
    return (
      <div key={index + value}
           className="list-item">
           <div className="text-list">{value}</div>
           <div className="bb-action"
                onClick={this.deleteListAtIndex(index)}>x</div>
           </div>
    );
})}
```

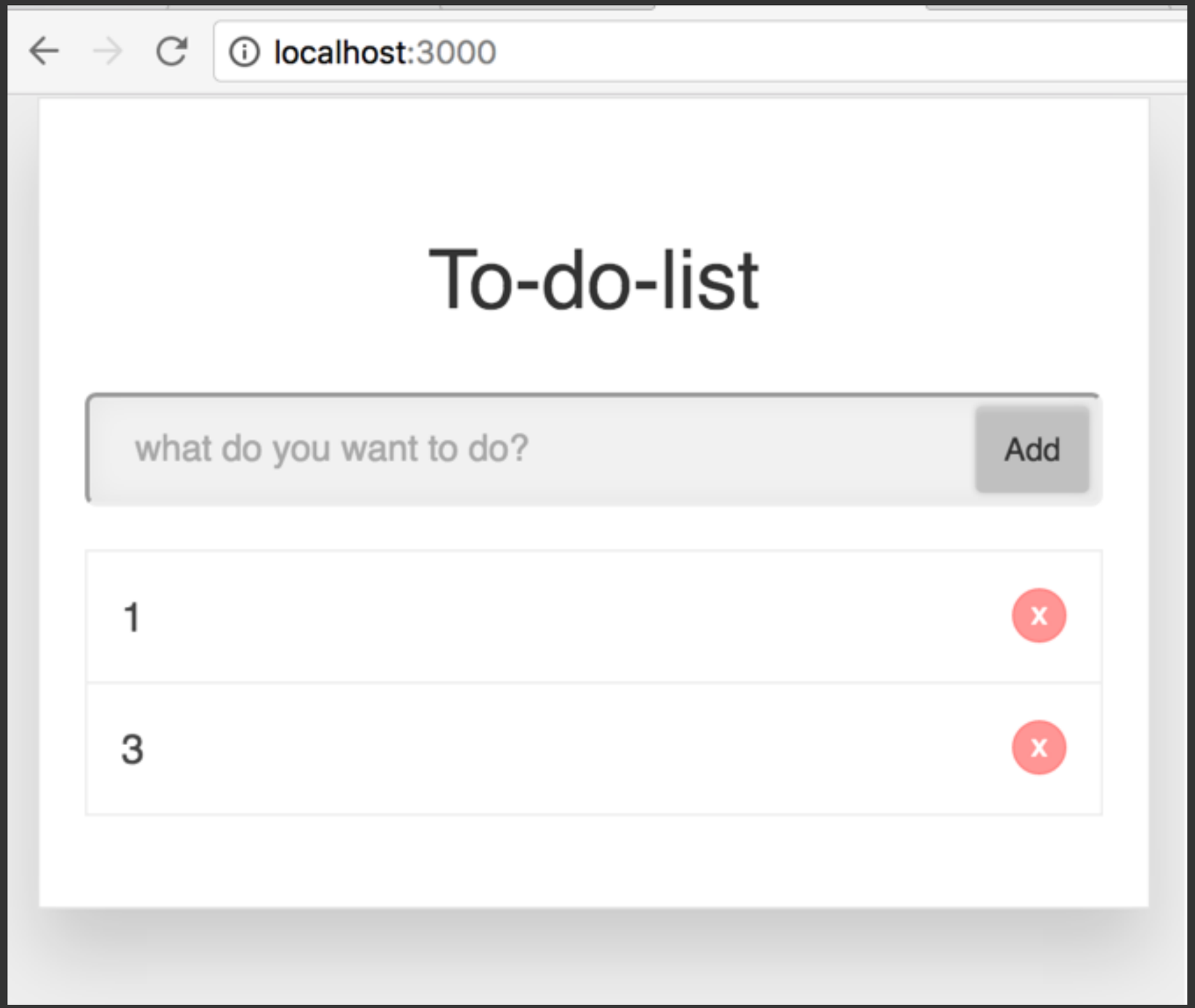
. . .

```
// Todo.js
...

{this.state.listItem.map((value, index) => {
    return (
      <div key={index + value}
           className="list-item">
           <div className="text-list">{value}</div>
           <div className="bb-action"
                onClick={this.deleteListAtIndex(index)}>x</div>
           </div>
    );
})}

...
```

```
// Todo.js
...

{this.state.listItem.map((value, index) => {
    return (
      <div key={index + value}
           className="list-item">
           <div className="text-list">{value}</div>
           <div className="bb-action"
                onClick={this.deleteListAtIndex.bind(this, index)}>x</div>
           </div>
    );
})}

...
```


localhost:3000
To-do-list
what do you want to do?
Add
text 1
text 2
text 3

```
// Todo.js
...

  deleteListAtIndex = (index) => {
    this.state.listItem.splice(index, 1);
    this.setState({});
  }

...
```

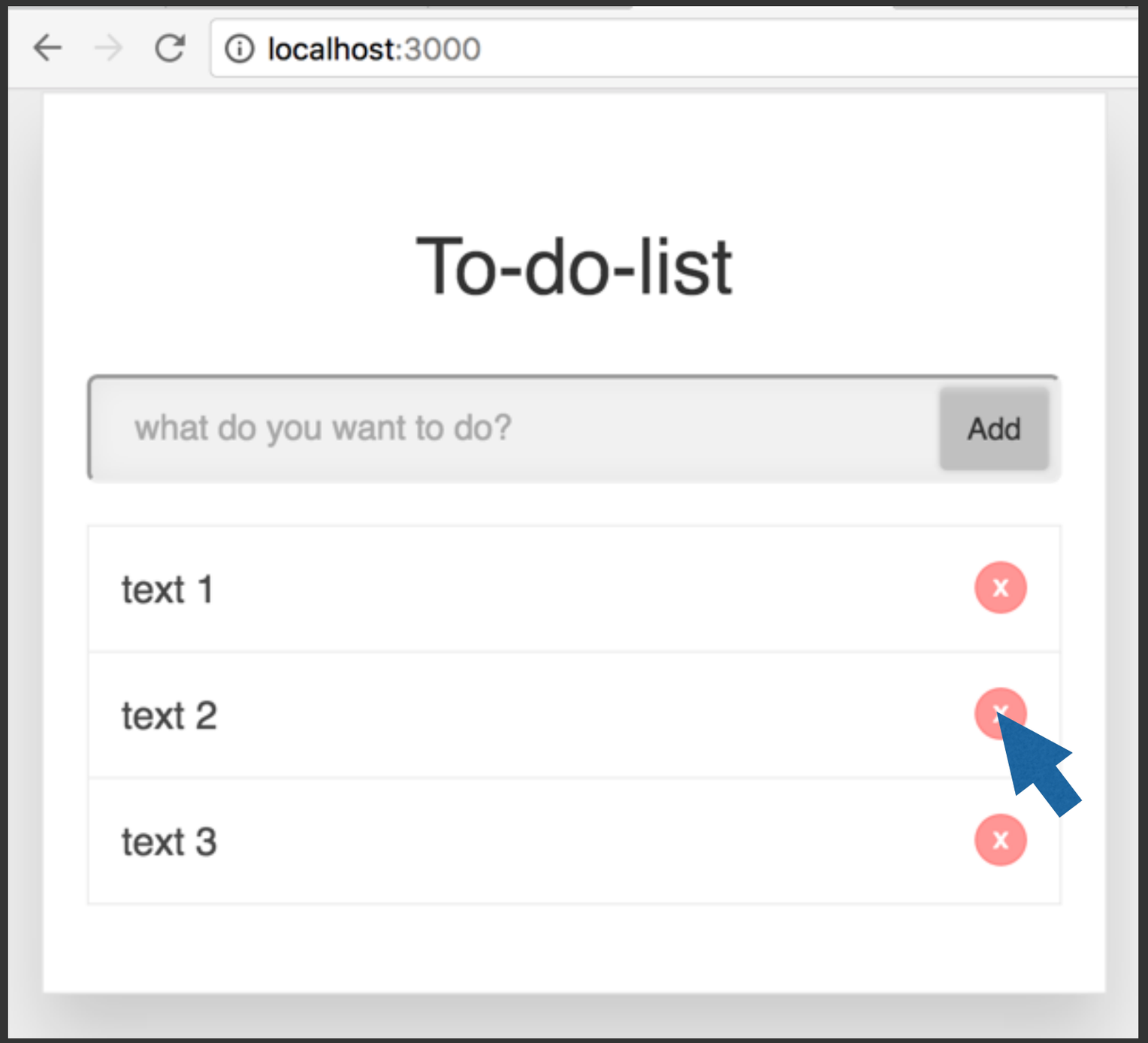

localhost:3000
To-do-list
what do you want to do?
Add
1
3

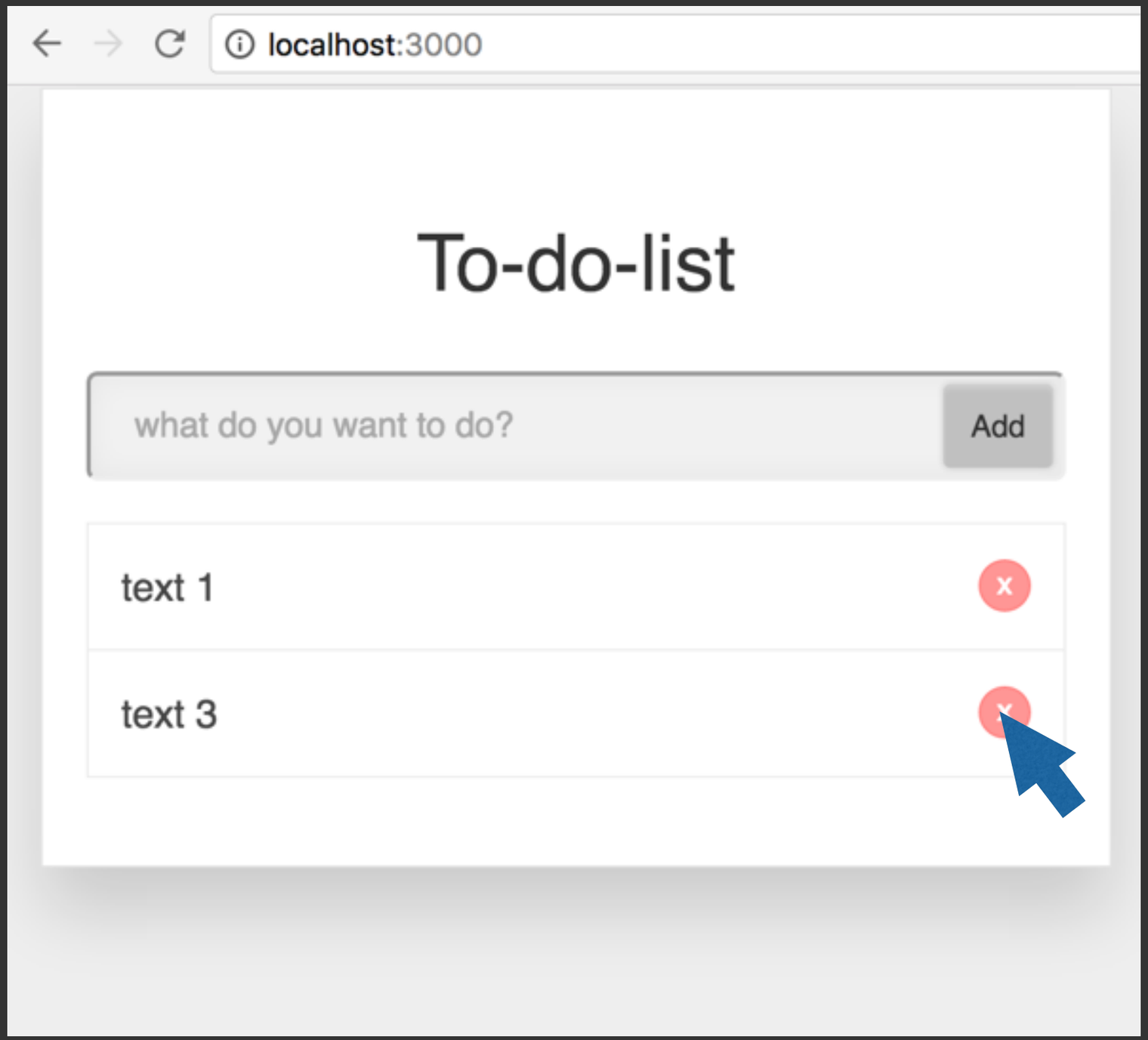
KRUNCHIE

```
// Todo.js
...

  deleteListAtIndex = (index) => {
    this.state.listItem.splice(index, 1);
    this.setState({});
  }

...
```

```
// Todo.js
...

  deleteListAtIndex = (index) => {
    const resule = this.state.listItem;
    resule.splice(index, 1);
    this.setState({
        listItem: resule
    });
  }
```

. . .

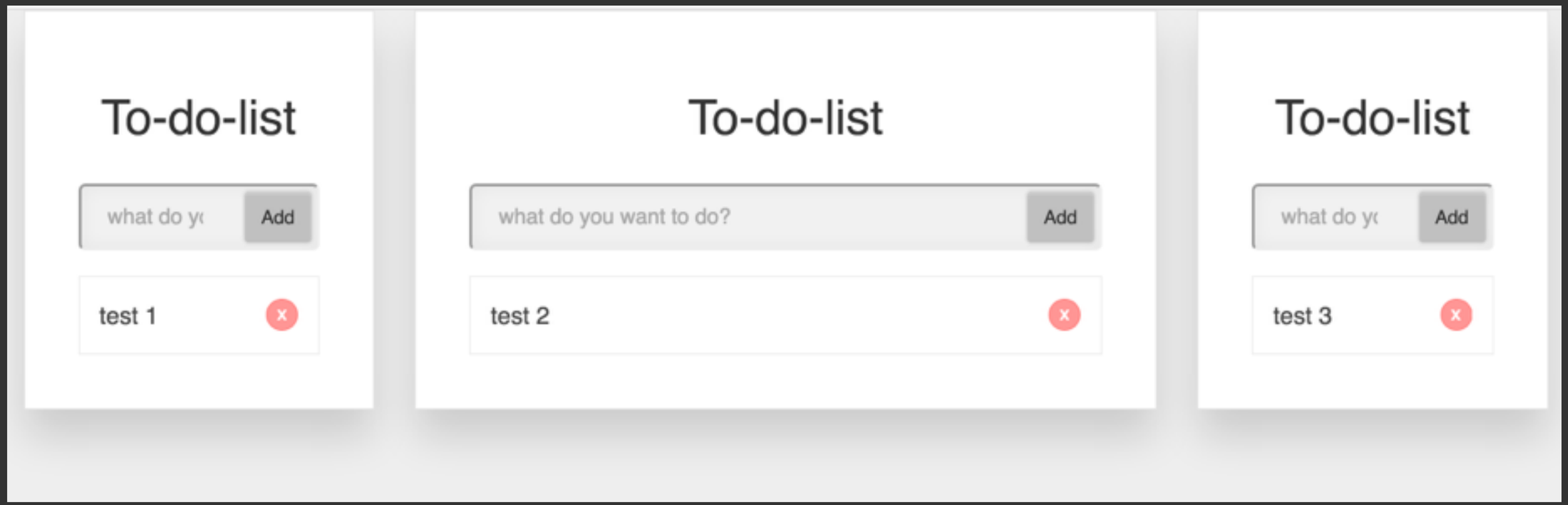

localhost:3000
To-do-list
what do you want to do?
Add
text 1
text 2
text 3


localhost:3000
To-do-list
what do you want to do?
Add
text 1
text 3

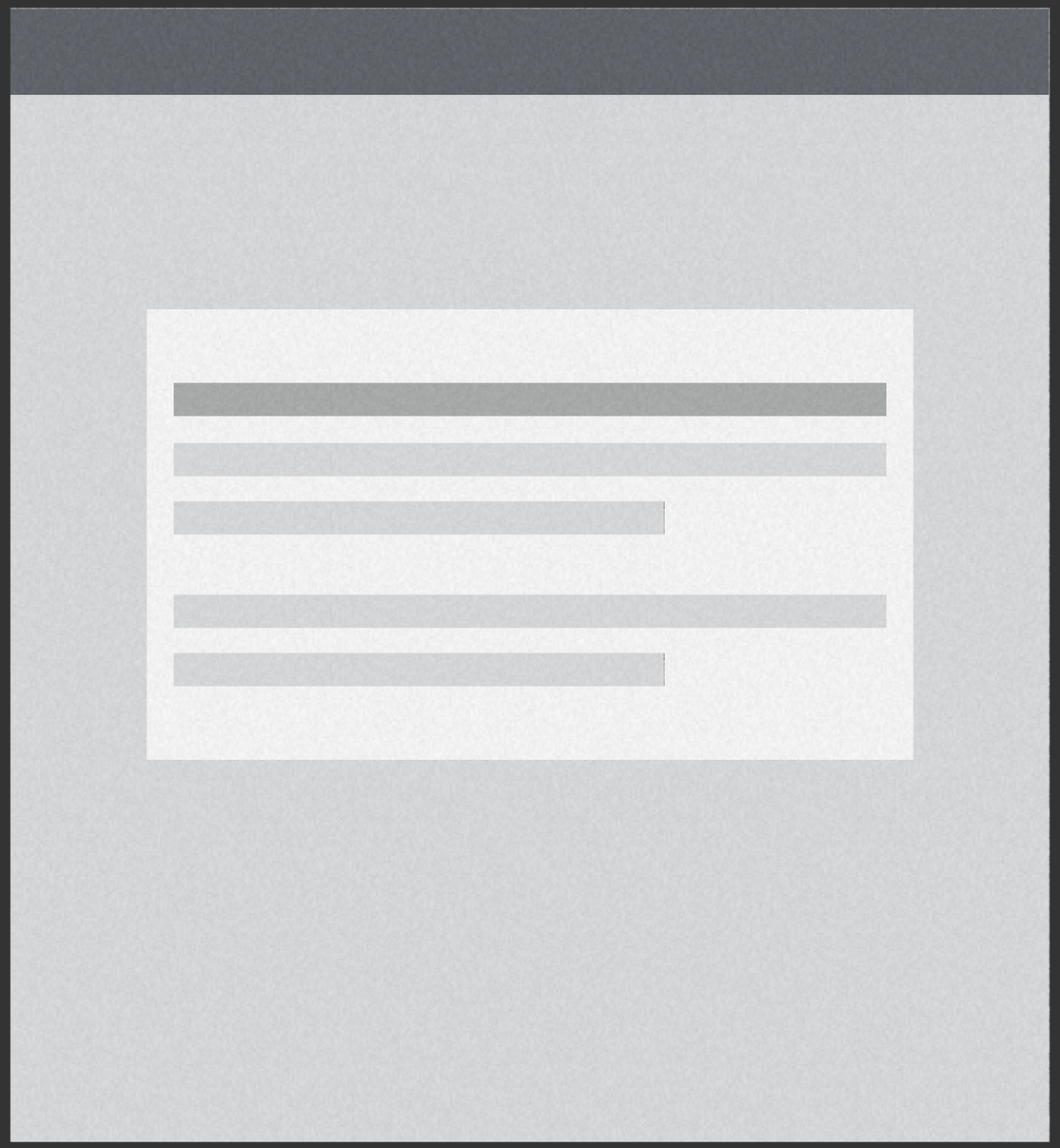
Ohhh yeah!

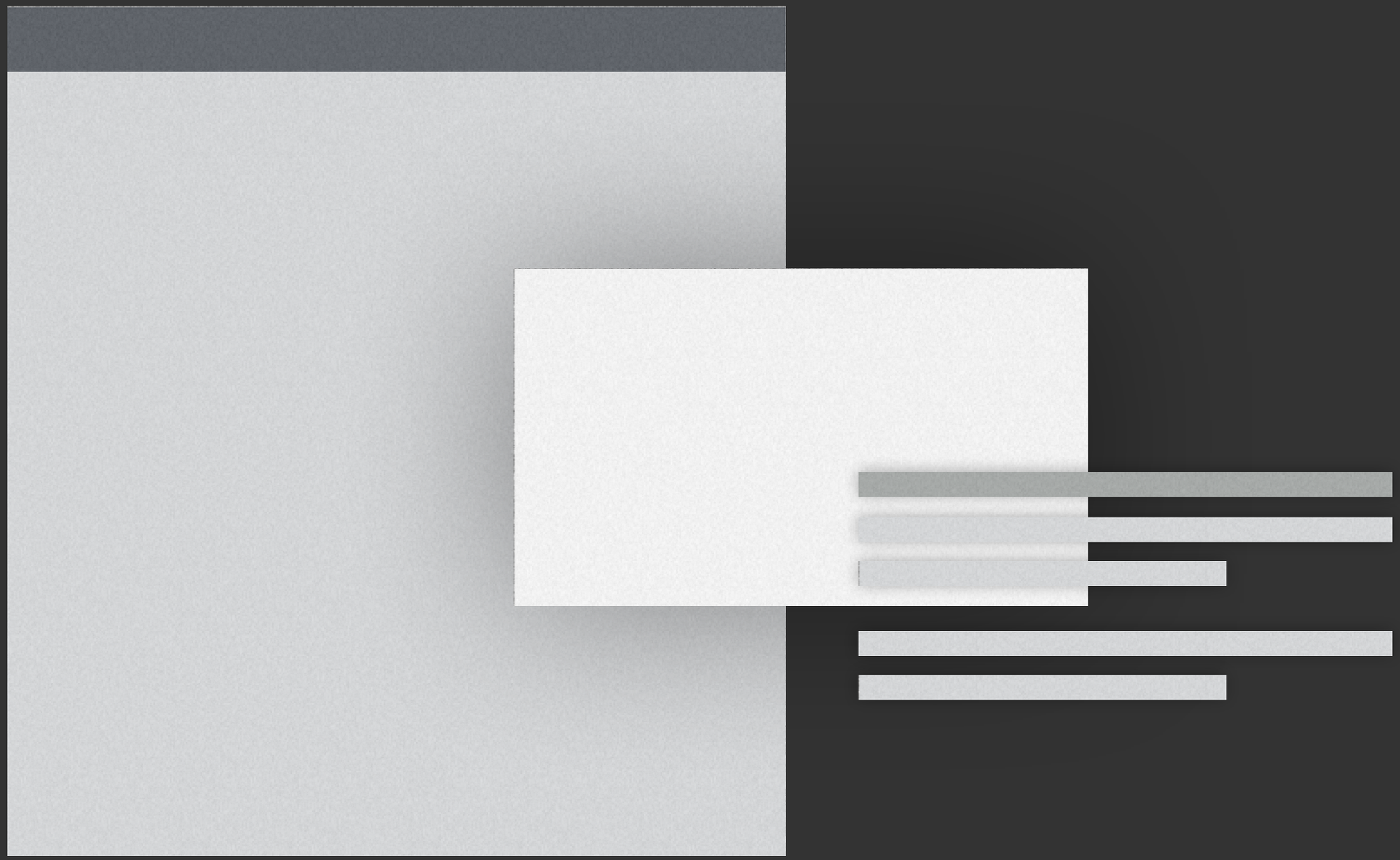
How to reuse component

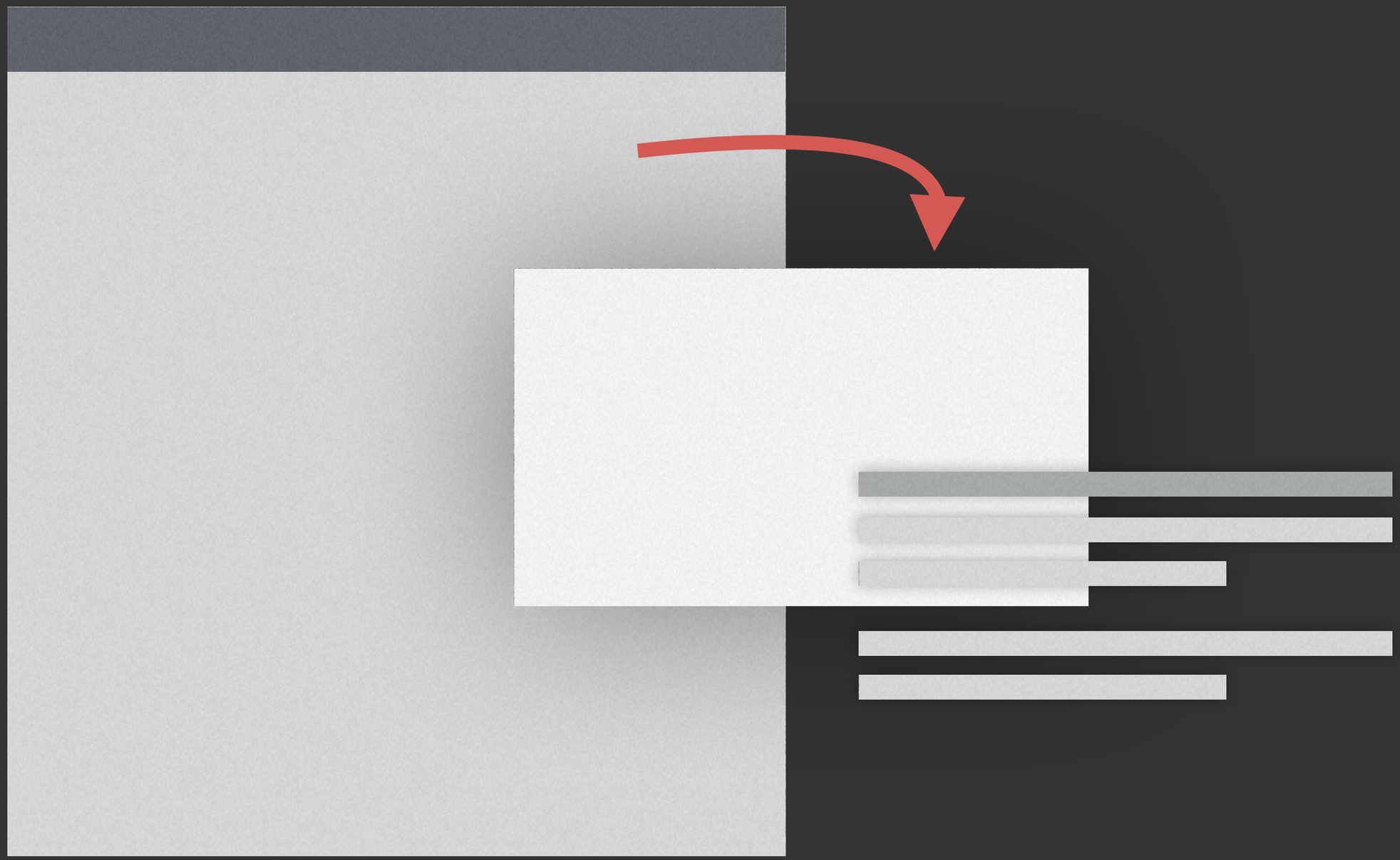
```
// App.js
...

  render() {
    return (
      <div className="App">
        <div className="container">
            <div className="row">
                <div className="col-md-3">
                  <Todo />
                </div>
                <div className="col-md-6">
                  <Todo />
                </div>
                <div className="col-md-3">
                  <Todo />
                </div>
            </div>
        </div>
      </div>
    );
  }
```

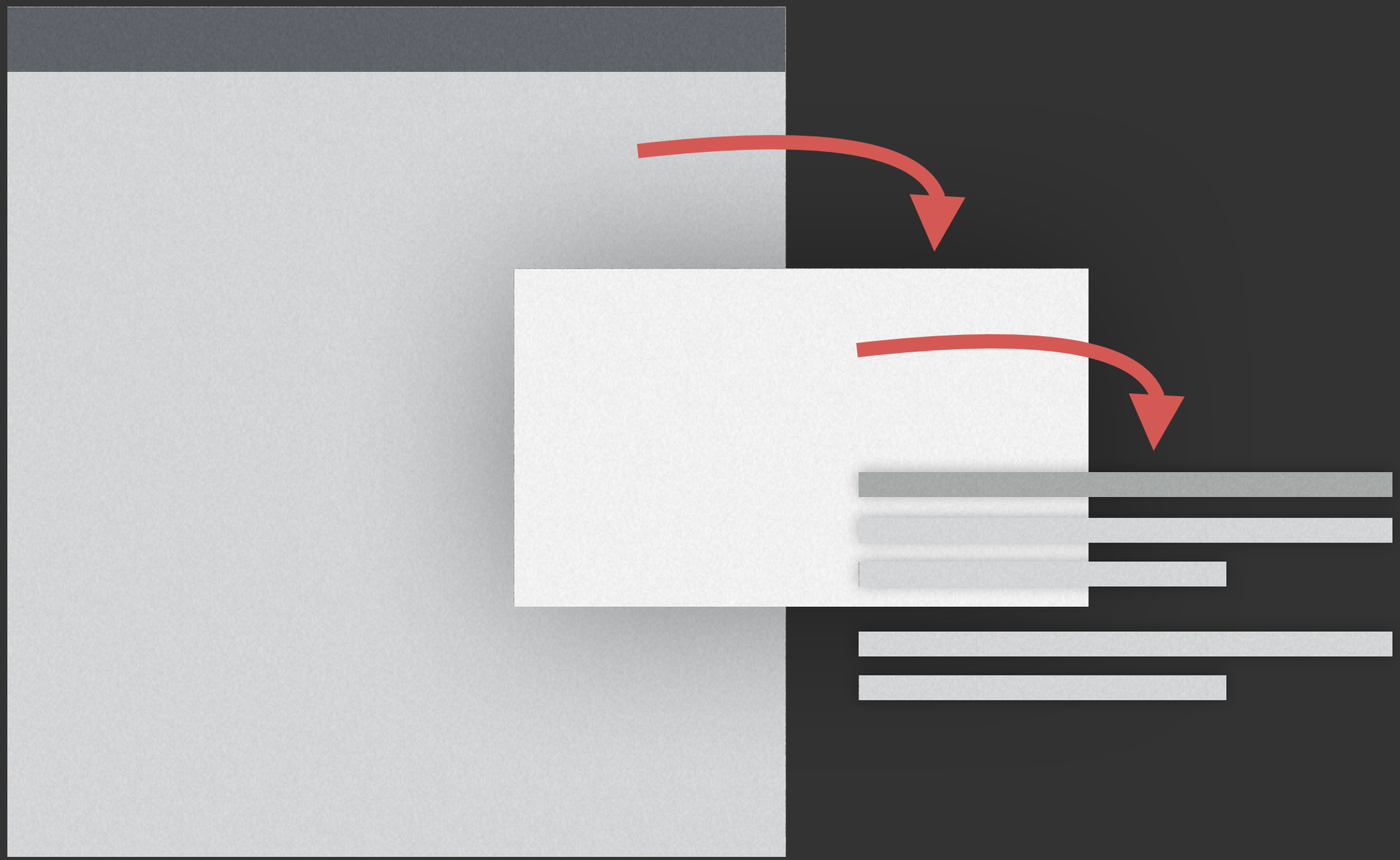

To-do-list
what do yc
Add
test 1
To-do-list
what do you want to do?
Add
test 2
To-do-list
what do yc
Add
test 3

Props???









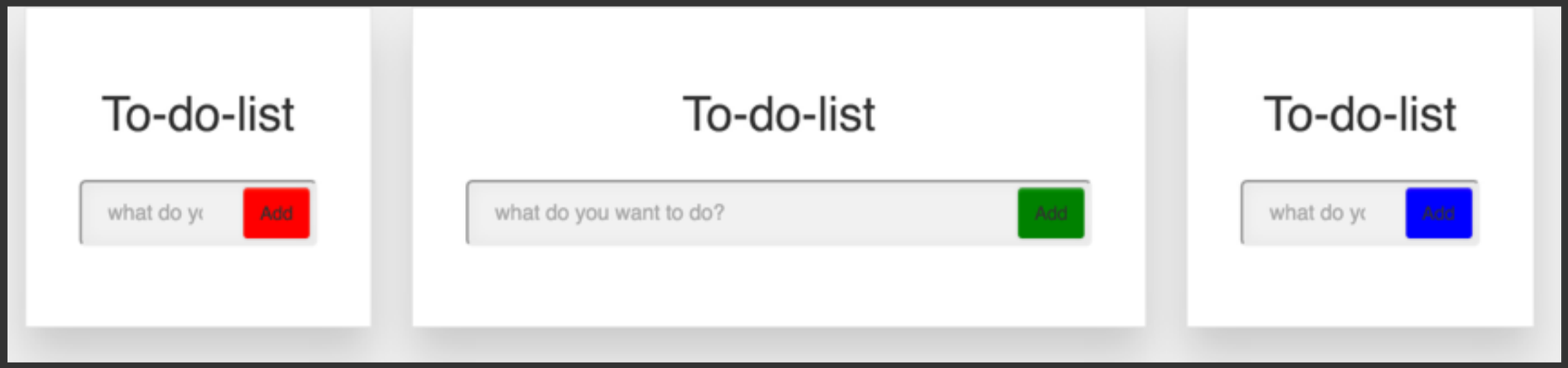
```
// App.js
...
        <div className="col-md-3">
          <Todo buttonColor="red"/>
        </div>
        <div className="col-md-6">
          <Todo buttonColor="green"/>
        </div>
        <div className="col-md-3">
          <Todo buttonColor="blue"/>
        </div>

...
```

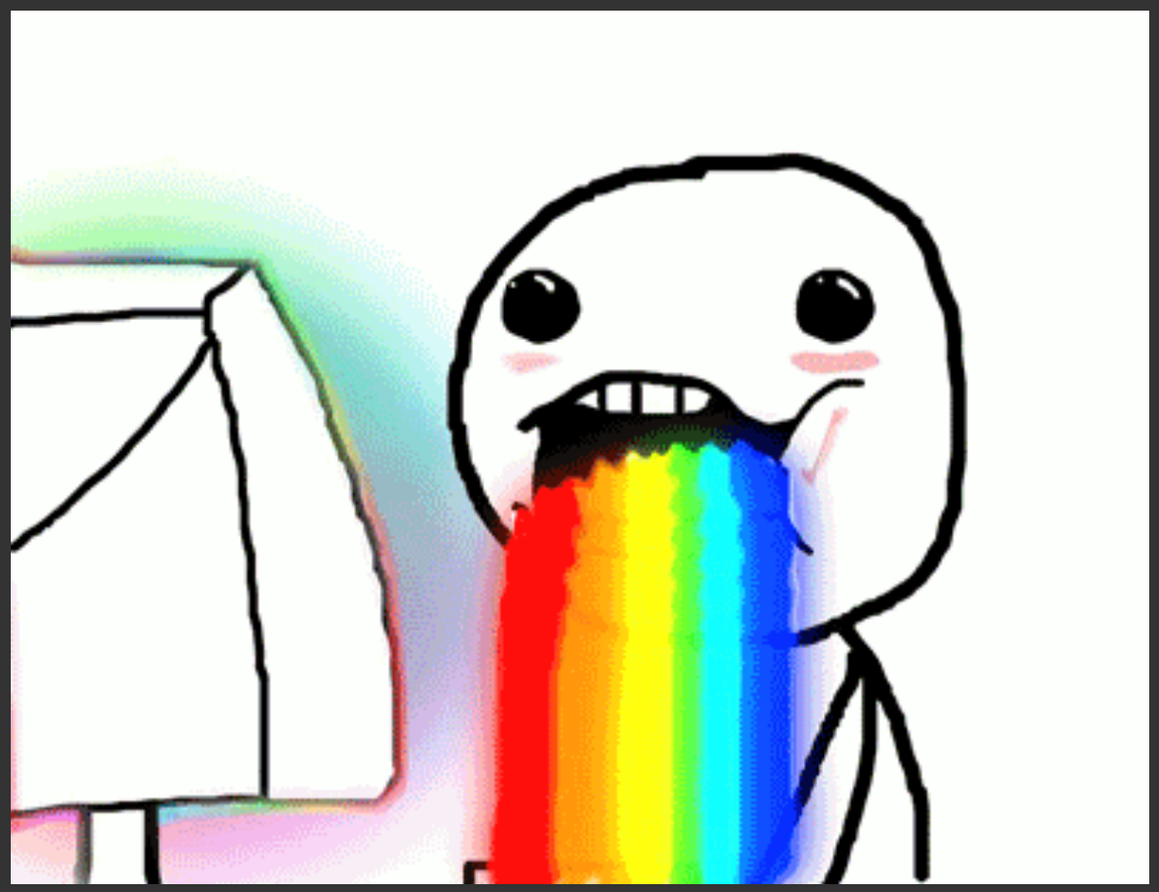
```
// App.js
...

        <div className="col-md-3">
          <Todo buttonColor="red"/>
        </div>
        <div className="col-md-6">
          <Todo buttonColor="green"/>
        </div>
        <div className="col-md-3">
          <Todo buttonColor="blue"/>
        </div>

...
```

```
// Todo.js
...

import React, { Component, PropTypes } from 'react';

export class Todo extends Component {

  static propTypes = {
    buttonColor: PropTypes.string.isRequired,
  }

  state = {

...
```

```
// Todo.js
...

import React, { Component, PropTypes } from 'react';

export class Todo extends Component {

  static propTypes = {
    buttonColor: PropTypes.string.isRequired,
  }

  state = {

...
```

```
// Todo.js
...

<div className="form-box">
     <input className="input-todo"
            type="text"
            onChange={this.handleChangeText}
            value={this.state.inputText}
            placeholder="what do you want to do?"
            onKeyPress={this.handleKeyPress}/>
     <button className="bb-input button"
             onClick={this.submitList}
             style={{background: this.props.buttonColor}}>Add
      </button>
</div>

...
```


To-do-list
what do yc
Add
To-do-list
what do you want to do?
Add
To-do-list
what do yc
Add



```
// index.js

import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';


ReactDOM.render(
  <App />,
  document.getElementById('root')
);
```

```
// index.js

import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';


ReactDOM.render(
  <App />,
  document.getElementById('root')
);
```

```
// index.html
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>React App</title>
  </head>
  <body>
    <div id="root"></div>
  </body>
</html>
```

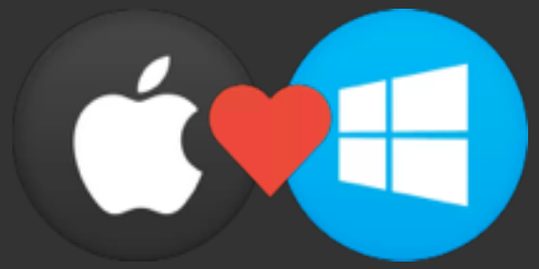
```
// index.js

import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';


ReactDOM.render(
  <App />,
  document.getElementById('root')
);
```

```
// index.html
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>React App</title>
  </head>
  <body>
    <div id="root"></div>
  </body>
</html>
```

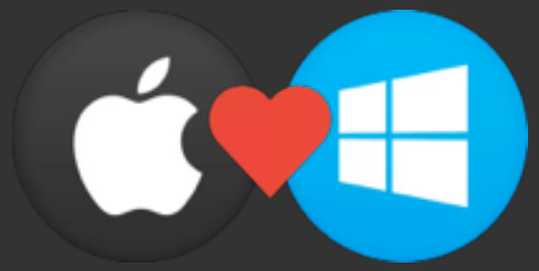
Building for Production

```
// Stop service

$ CMD + C
```

```
// Stop service

> CTR + C
```

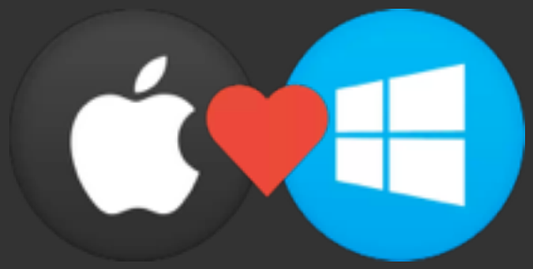


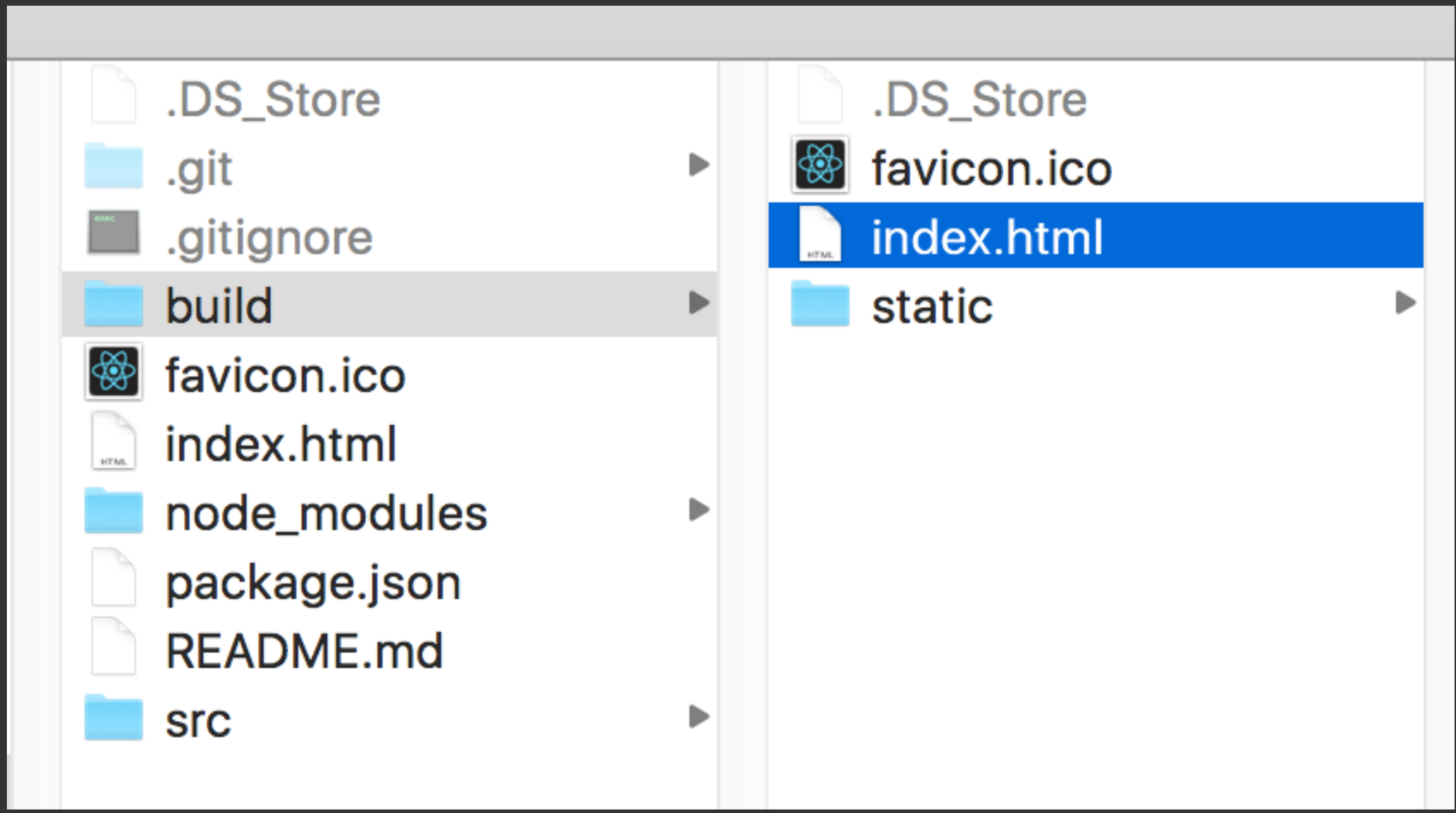
```
// Building for Production
$ npm run build
```



```
// Building for Production
$ npm run build
```

```
Creating an optimized production build...
Compiled successfully.

File sizes after gzip:

  47.55 KB  build/static/js/main.a636a154.js
  19.26 KB  build/static/css/main.b87aebdd.css
```




.DS_Store
.git
.gitignore
build
favicon.ico
index.html
node_modules
package.json
README.md
src
.DS_Store
favicon.ico
index.html
static

One more thing

REACT ROUTER

```
// React-router
https://github.com/reactjs/react-router
```

REACT ROUTER

```
// React-router
$ npm install react-router --save
```

REACT ROUTER

```
// index.js

...

ReactDOM.render(
  <App />,
  document.getElementById('root')
);

...
```

```
// index.js

...
import { Router, Route, browserHistory } from 'react-router'
import Page1 from './Page/Page1';
import Page2 from './Page/Page2';
import Page3 from './Page/Page3';

ReactDOM.render(
  <Router history={browserHistory}>
    <Route path="/" component={App}>
      <Route path="page1" component={Page1}/>
      <Route path="page2" component={Page2}/>
      <Route path="page3" component={Page3}/>
      <Route path="*" component={Page1}/>
    </Route>
  </Router>,
  document.getElementById('root')
);

...
```

```
// index.js

...
import { Router, Route, browserHistory } from 'react-router'
import Page1 from './Page/Page1';
import Page2 f
import Page3 f

ReactDOM.rende
  <Router hist
    <Route pat
      <Route p
      <Route p
      <Route p
      <Route p
    </Route>
  </Router>,
  document.get
);

...
```

```
// Page/Page1.js
export default class Page1 extends
Component {
  render() {
    return (
      <div>
        <h1>Page1</h1>
      </div>
    );
  }
}
```

```
// App.js
import { Link } from ‘react-router'

...
        ...
        <div className="card clearfix">
          <Link to="/page1">
            <div className="tab-page">Page 1</div>
          </Link>
          <Link to="/page2">
            <div className="second tab-page">Page 2</div>
          </Link>
          <Link to="/page3">
            <div className="tab-page">Page 3</div>
          </Link>
        </div>
        <Todo button=“green” />
        ...
...
```

```
// App.js
import { Link } from ‘react-router'

...
        ...
        <div className="card clearfix">
          <Link to="/page1">
            <div className="tab-page">Page 1</div>
          </Link>
          <Link to="/page2">
            <div className="second tab-page">Page 2</div>
          </Link>
          <Link to="/page3">
            <div className="tab-page">Page 3</div>
          </Link>
        </div>
        <Todo button=“green” />
        ...
...
```

```
// App.js
import { Link } from ‘react-router'

...
        ...
        <div className="card clearfix">
          <Route path="/" component={App}>
            <Route path="page1" component={Page1}/>
            <Route path="page2" component={Page2}/>
            <Route path="page3" component={Page3}/>
            <Route path="*" component={Page1}/>
          </Route>
          <Todo button=“green” />
        ...
...
```

Page 1 | Page 2 | Page 3

To-do-list

what do you want to do? Add

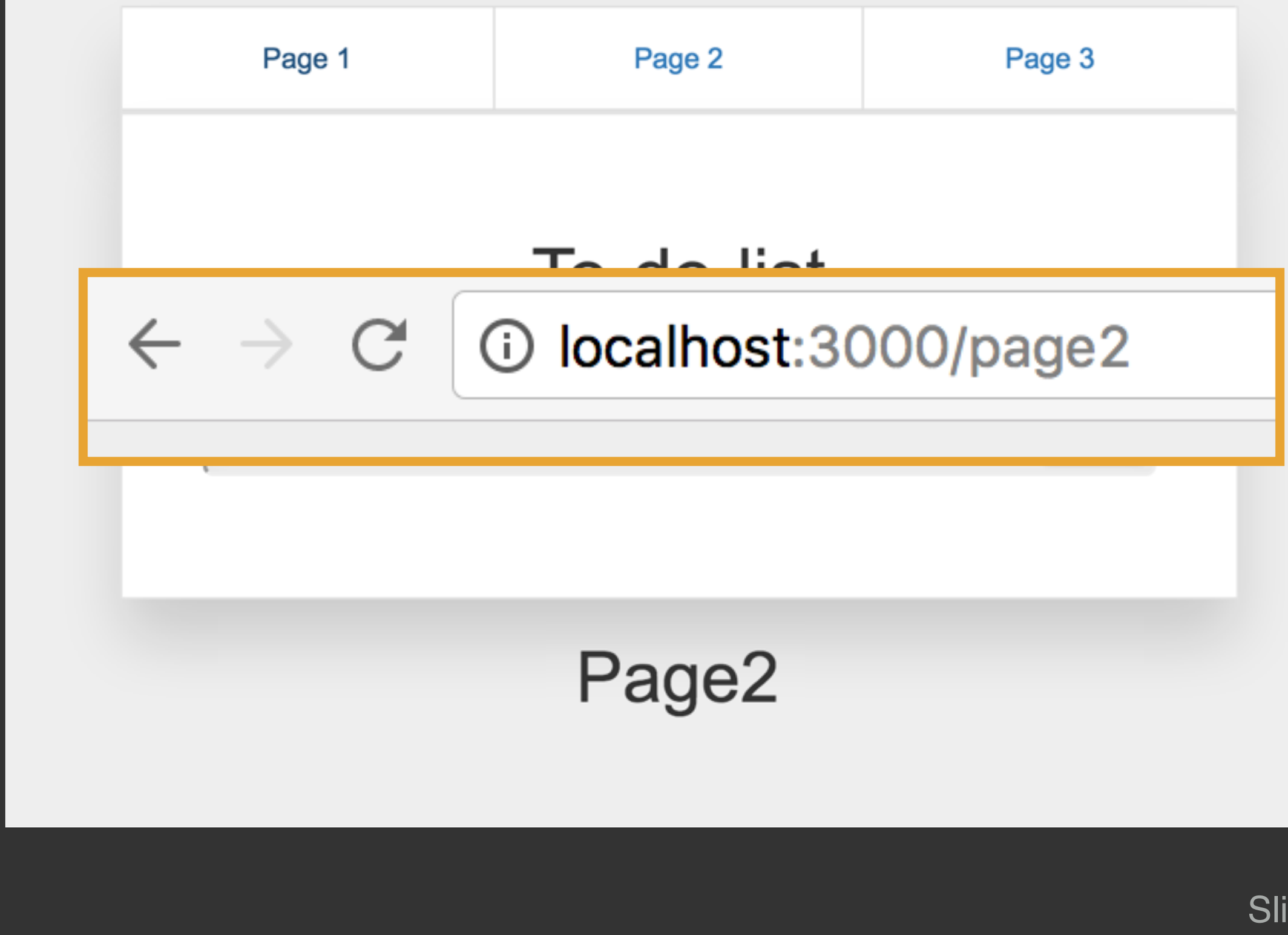
Page1

Page 1 | Page 2 | Page 3

To-do-list

what do you want to do? Add

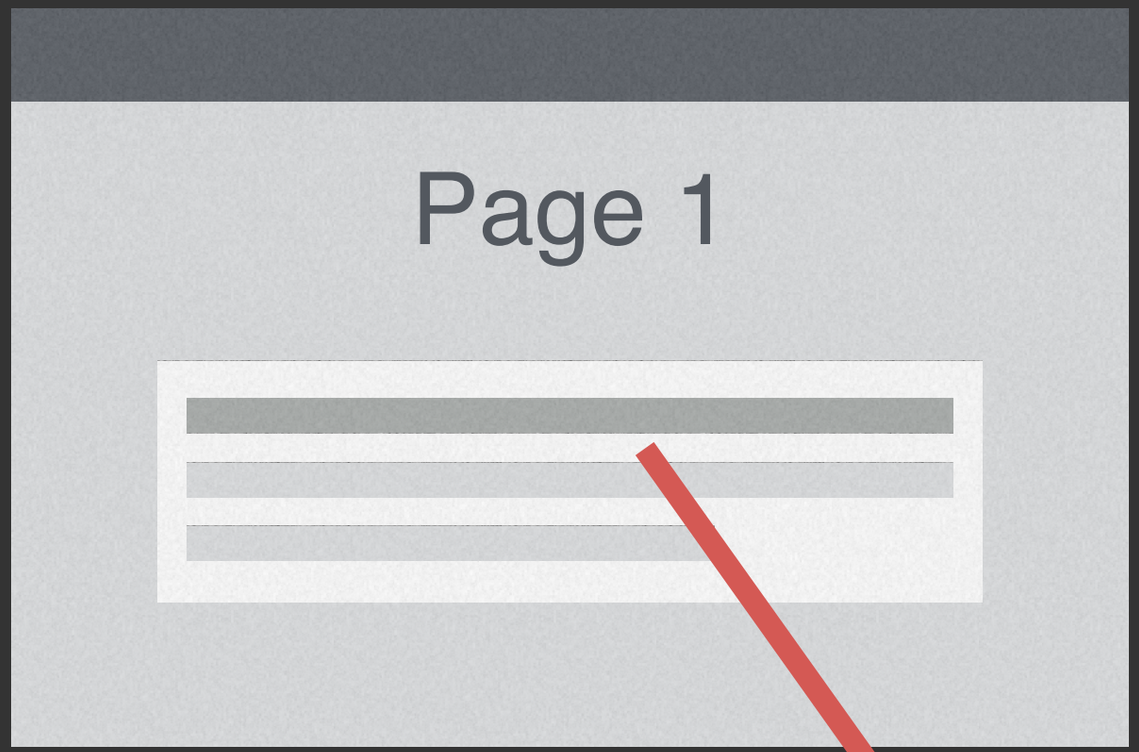
Page2

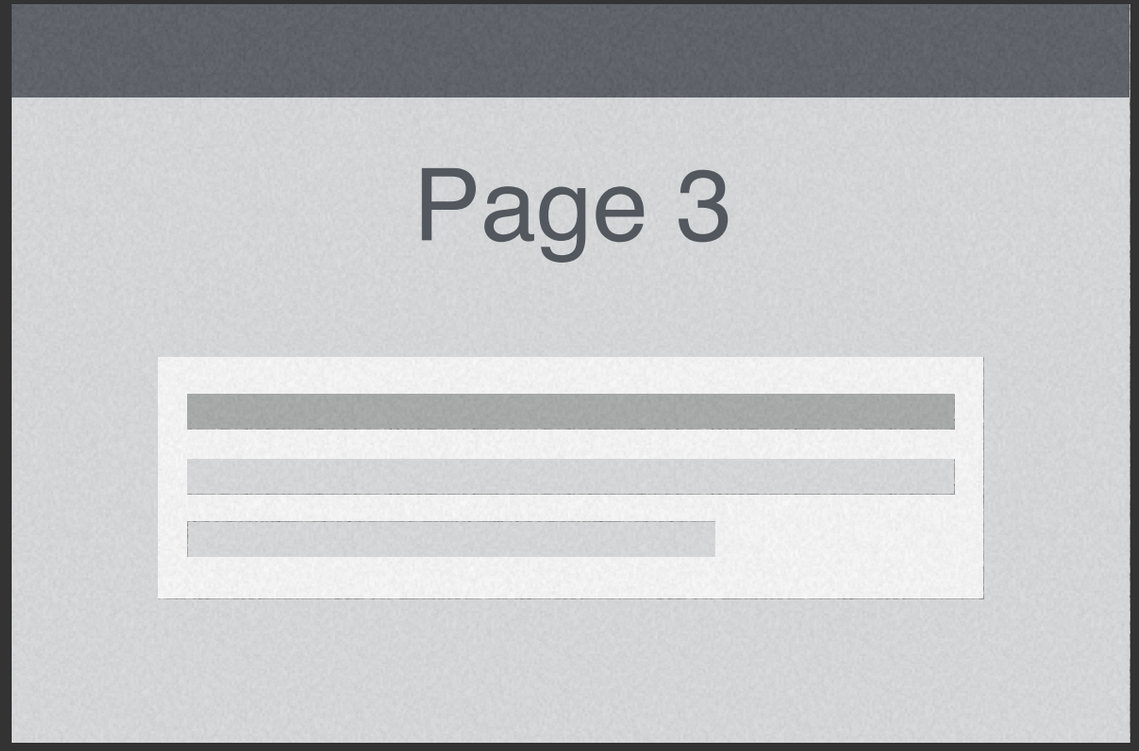

Page 1
Page 2
Page 3
localhost:3000/page2
Page2

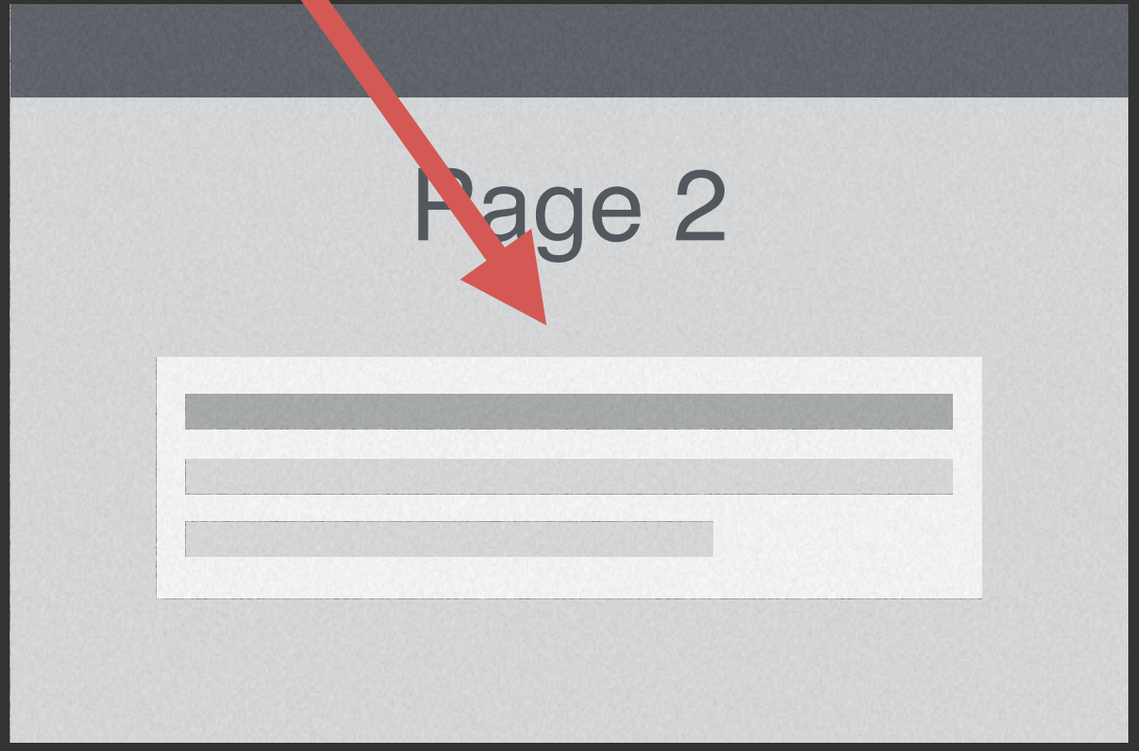
~~One more thing~~

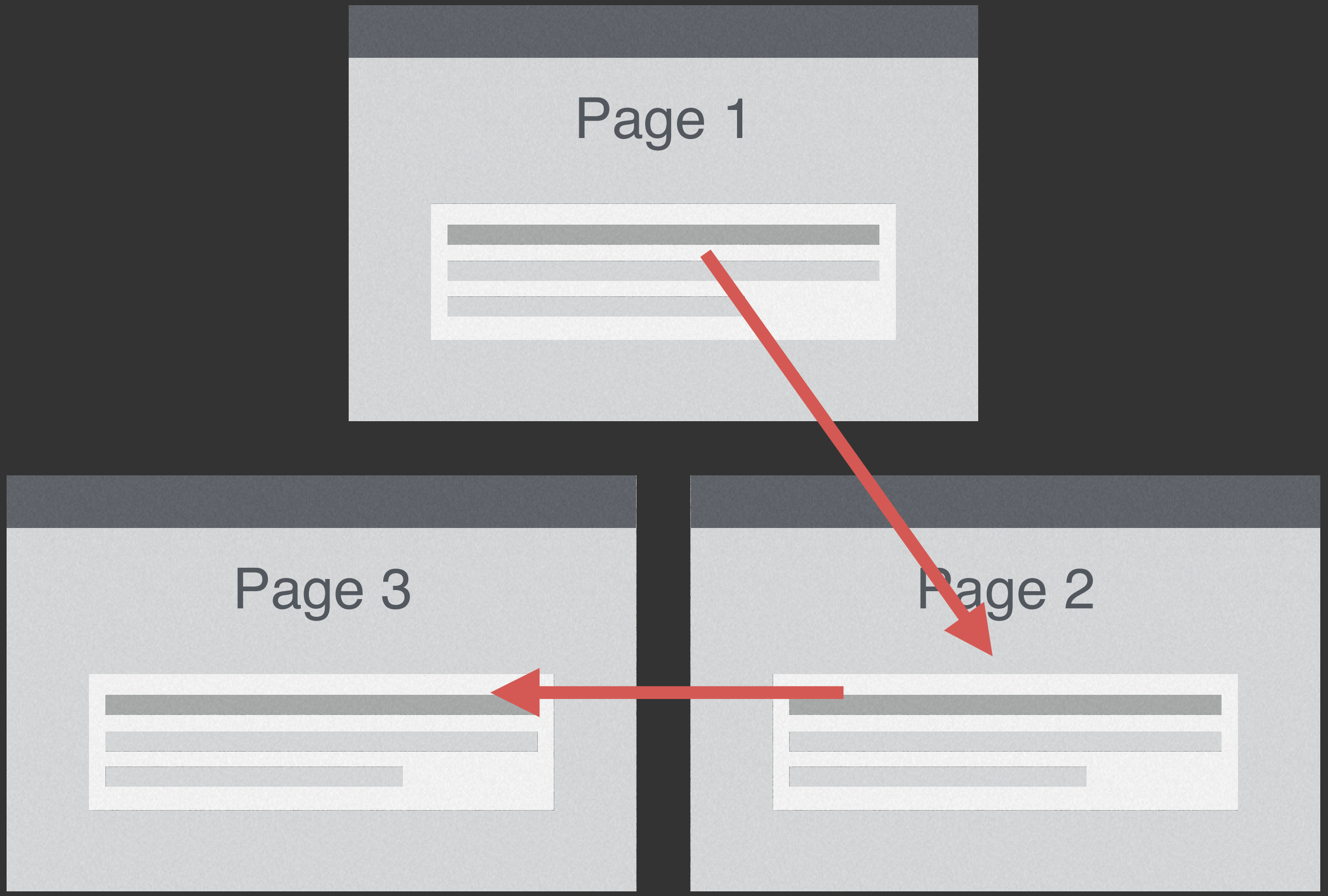
Two more thing

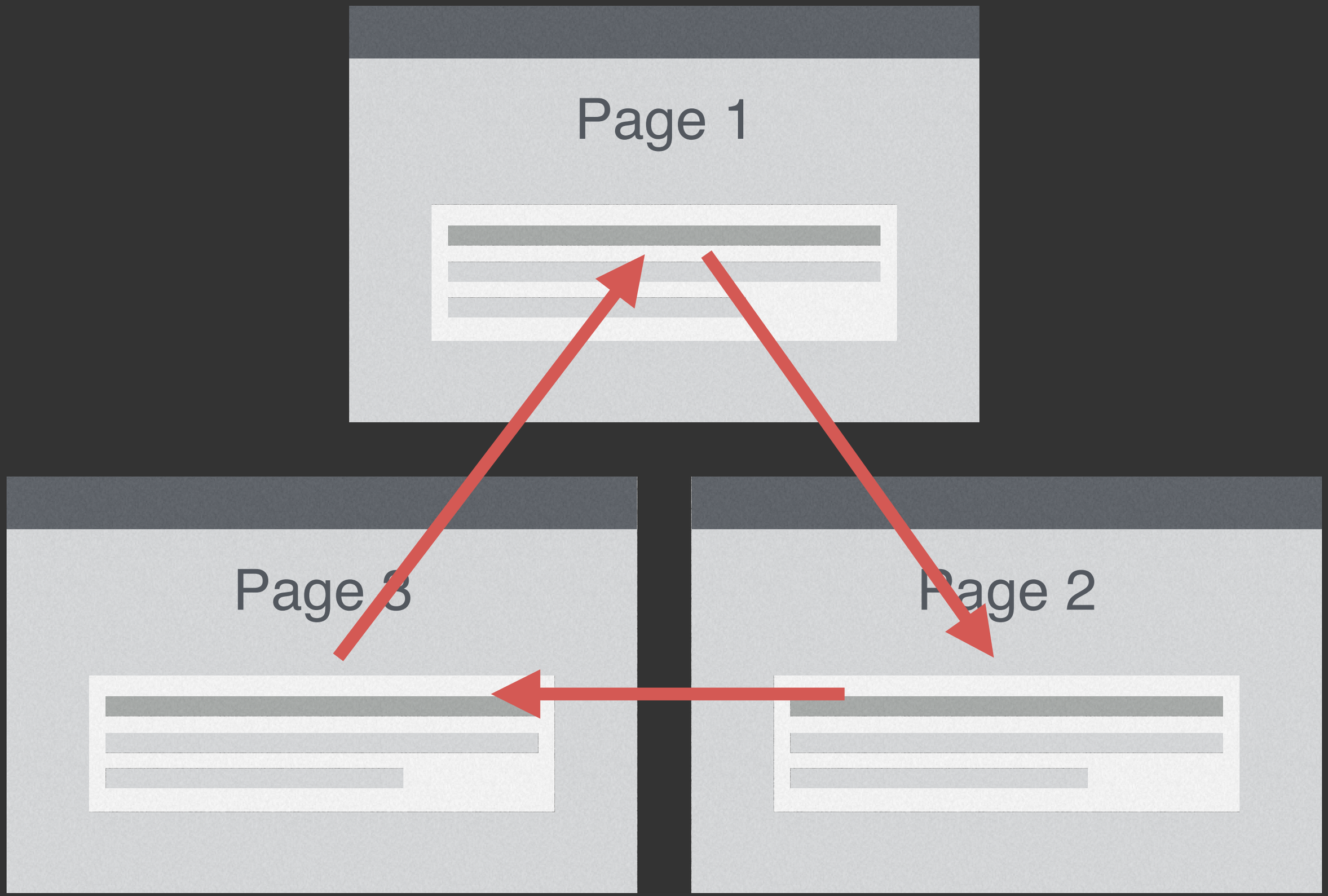
Redux

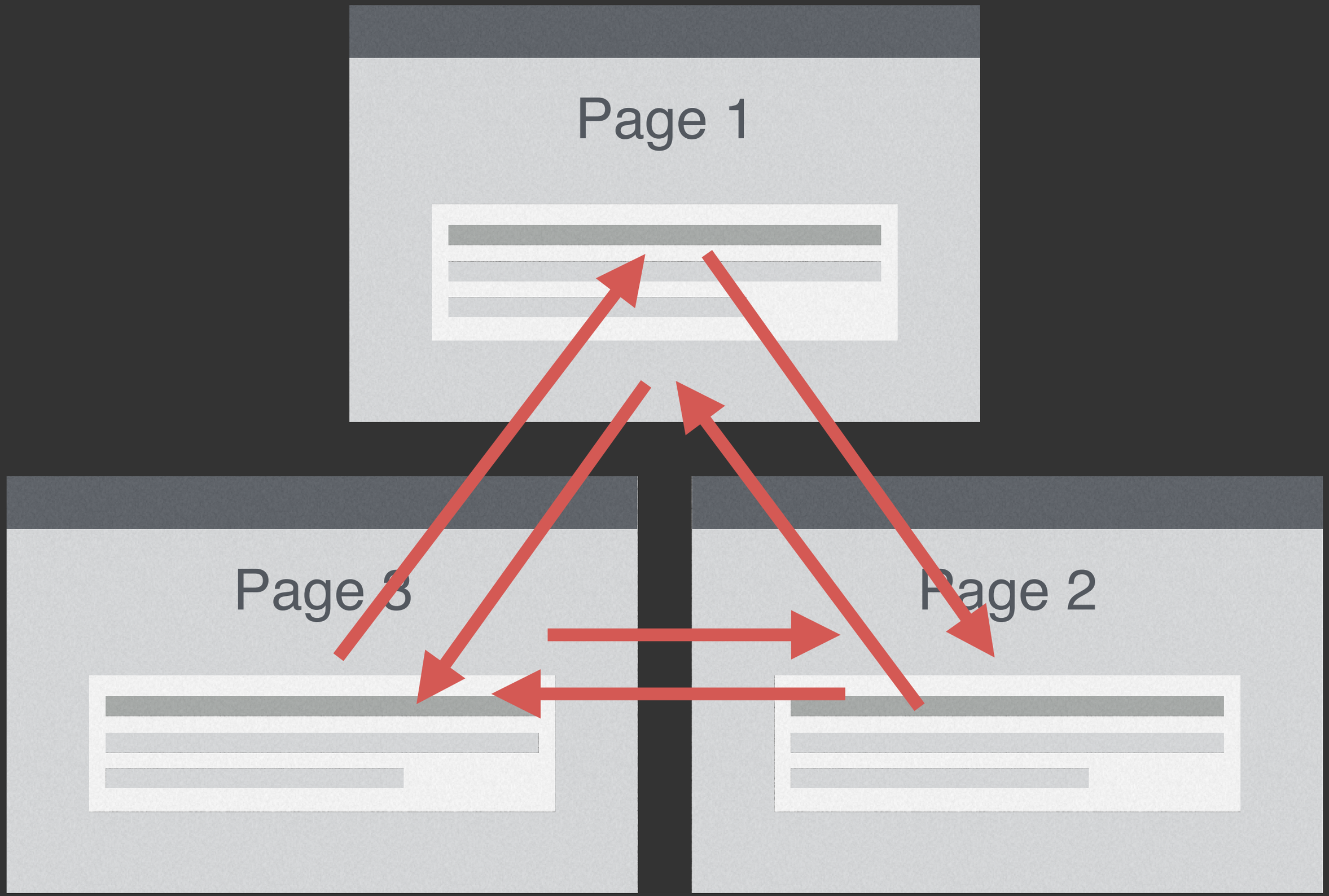

Page 1

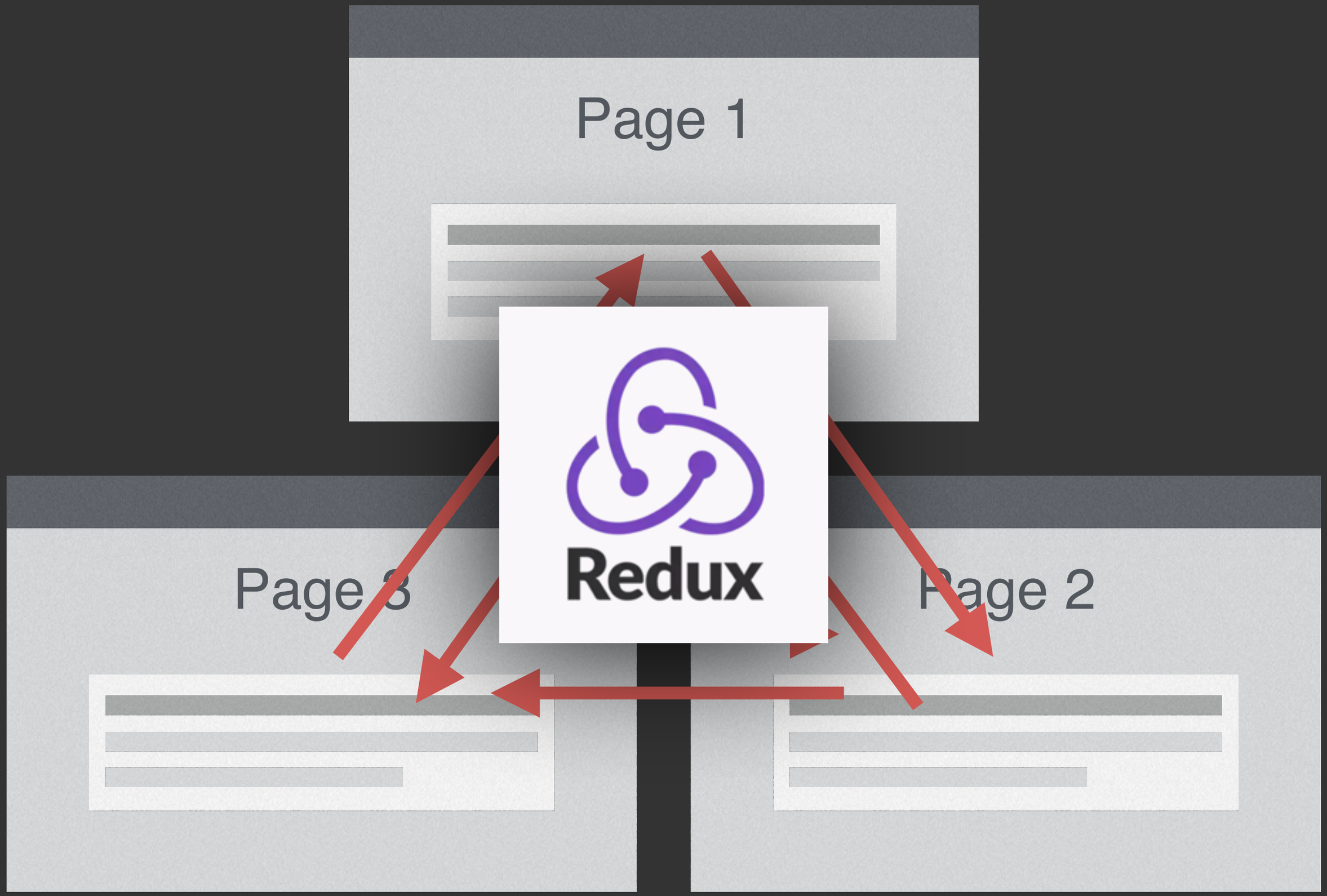

Page 3

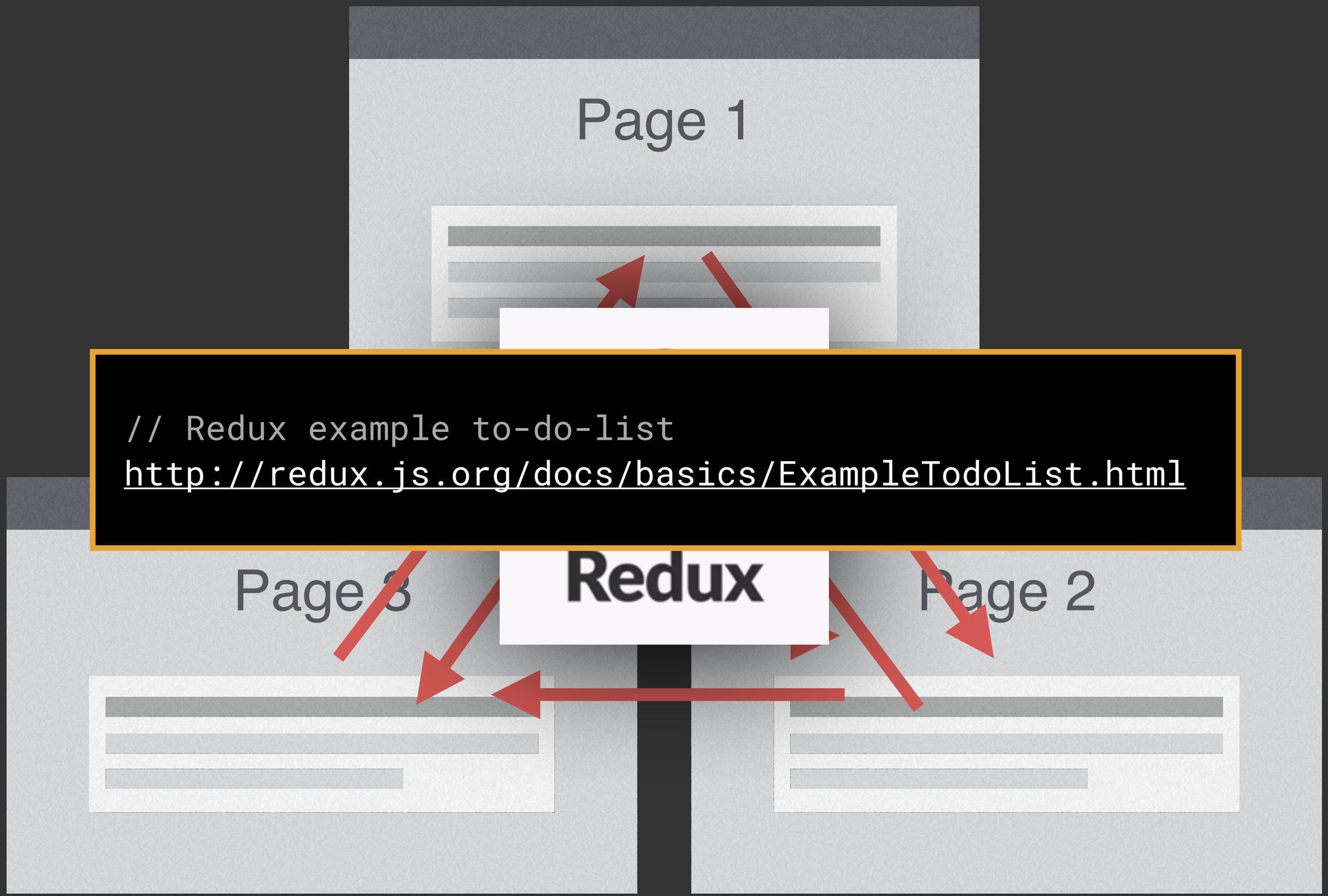

Page 2


Page 1
Page 3
Page 2


Page 1
Page 3
Page 2


Page 1
Page 3
Page 2


Page 1
Redux
Page 3
Page 2


Page 1
// Redux example to-do-list
http://redux.js.org/docs/basics/ExampleTodoList.html
Page 3
Redux
Page 2

Redux

...

Time Travel Through Predictable Application States

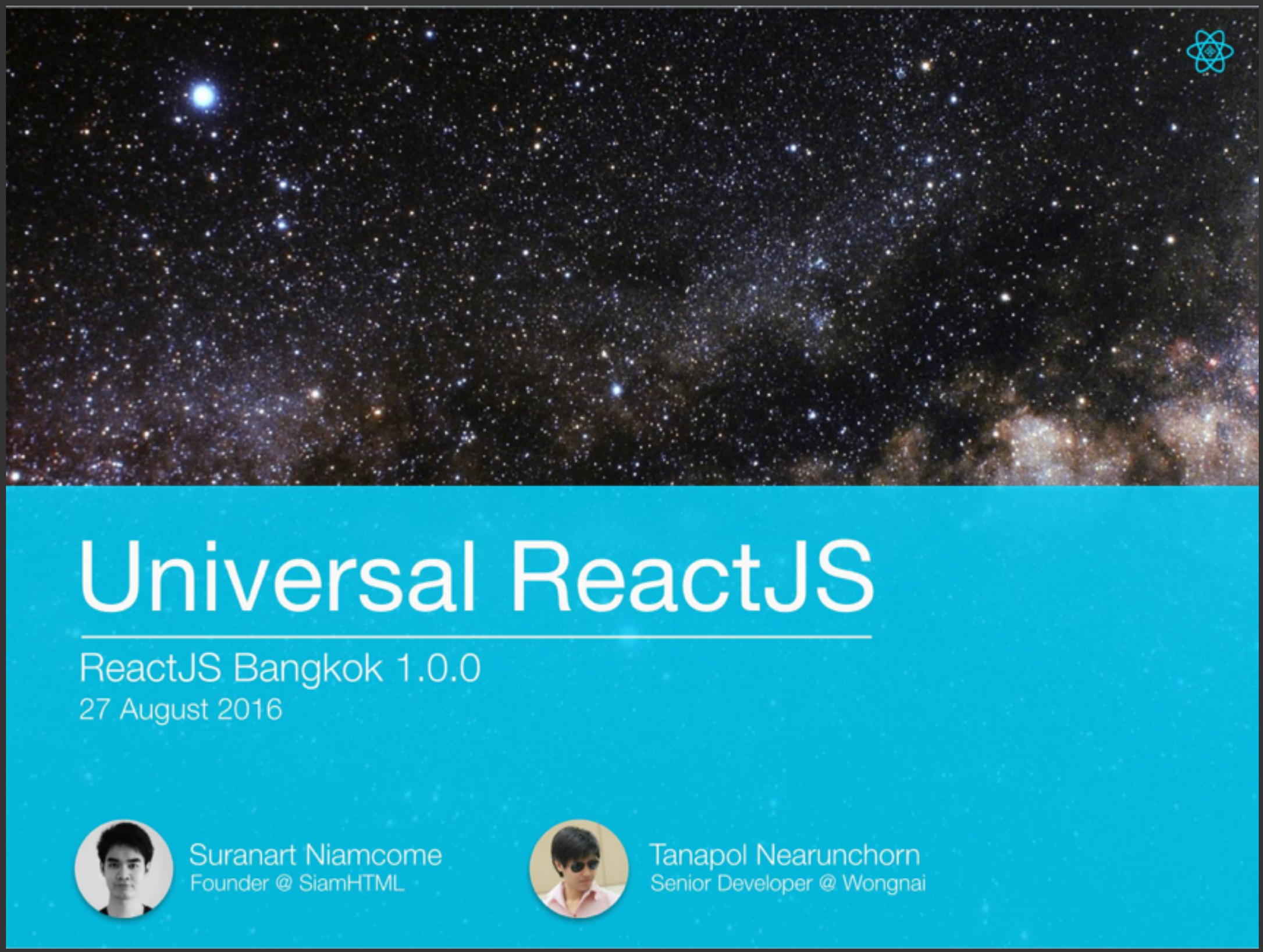
ReactJS Bangkok 1.0.0

Arnupharp Viratanapanu & Supasate Choochaisri

~~One more thing~~

~~Two more thing~~

Three more thing



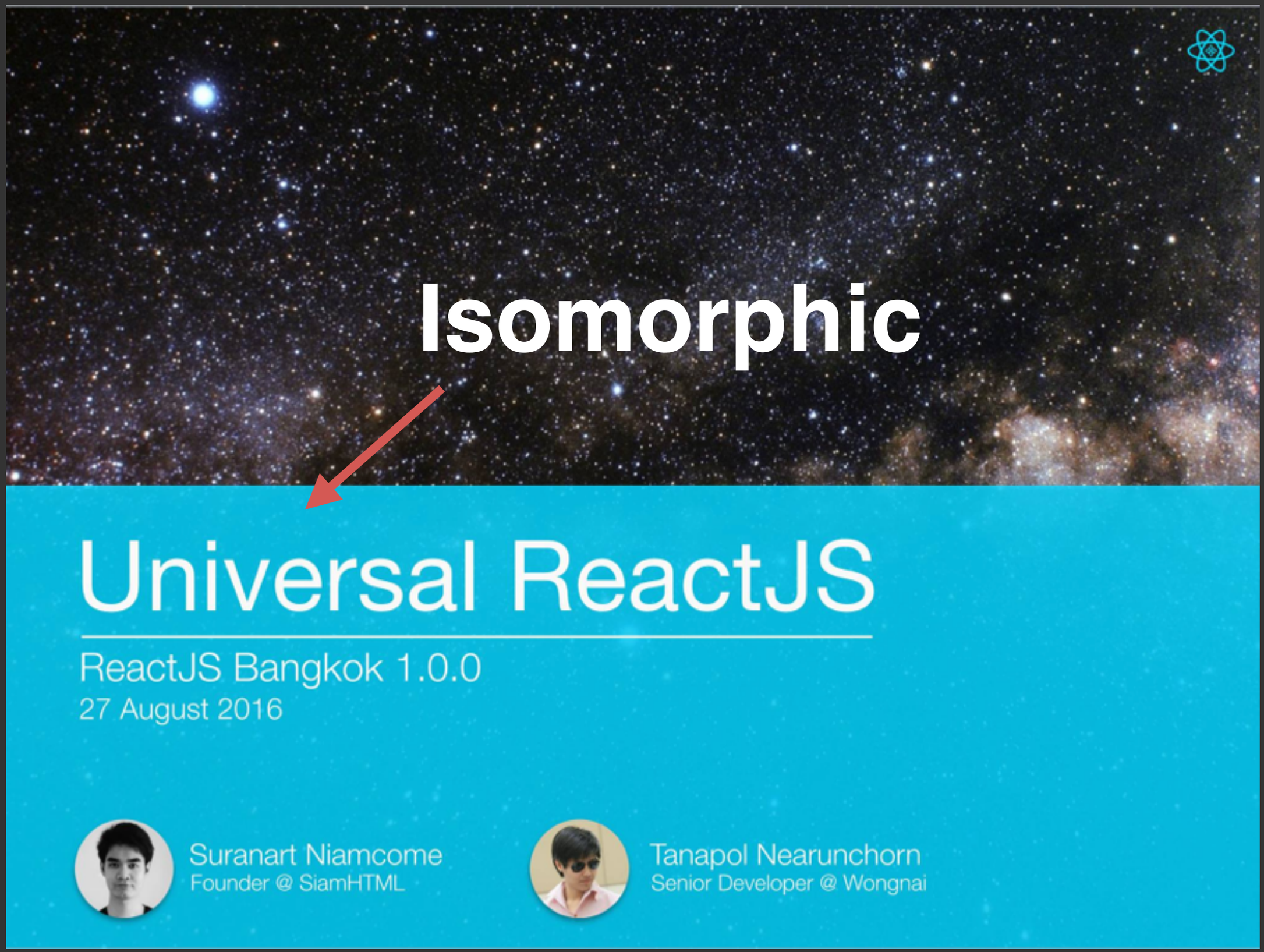
Universal ReactJS

ReactJS Bangkok 1.0.0

27 August 2016

Suranart Niamcome
Founder @ SiamHTML

Tanapol Nearunchorn
Senior Developer @ Wongnai


Isomorphic
Universal ReactJS
ReactJS Bangkok 1.0.0
27 August 2016
Suranart Niamcome
Founder @ SiamHTML
Tanapol Nearunchorn
Senior Developer @ Wongnai

Thank you