FORMS

Do what you gotta do

♦ FULLSTACK 1 REACT.JS INTRODUCTION

"I'm so happy I get to program form validation for our new product! This is going to be lots of fun!"

- NO DEVELOPER EVER

♦ FULLSTACK 2 REACT.JS INTRODUCTION

WEB 1.0 FORMS

♦ FULLSTACK 3 REACT.J



WEB 1.0 FORMS

- Submitting a form sends a GET or POST request to the server
- Default behavior is to refresh the page when we get the response

♦ FULLSTACK 5 REACT.JS INPUT

FORMS WITH AJAX

♦ FULLSTACK 6 REACT.JS II

AJAX FORMS

- Use JavaScript rather than the default HTML behavior
- Add event listener for the 'submit' event that fires when a form is submitted
- Must remember to prevent the default behavior!

♦ FULLSTACK 7 REACT.JS INPUT

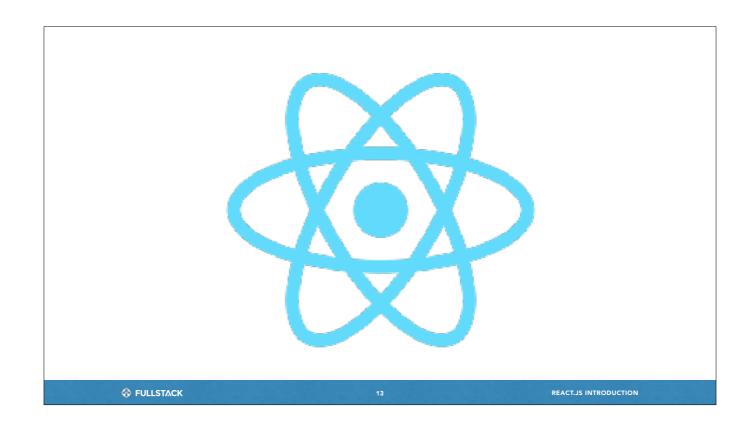
```
const form = document.getElementById('purchaseForm')
```

```
const form = document.getElementById('purchaseForm')
form.addEventListener('submit', (event) => {
})
```

```
const form = document.getElementById('purchaseForm')
form.addEventListener('submit', (event) => {
  event.preventDefault()
})
```

```
const form = document.getElementById('purchaseForm')
form.addEventListener('submit', (event) => {
    event.preventDefault()
    const firstName = event.target.username.value
    const lastName = event.target.lastName.value
    const address = event.target.address.value
})
```

```
const form = document.getElementById('purchaseForm')
form.addEventListener('submit', (event) => {
  event.preventDefault()
  const firstName = event.target.username.value
  const lastName = event.target.lastName.value
  const address = event.target.address.value
  axios.post('/api/purchase', {firstName, lastName,
address})
  // etc
})
     ♦ FULLSTACK
                                             REACT.JS INPUT
```



React can make things a little bit easier, because instead of having an imperative API like jQuery where we have to yank our data off the DOM like barbarians, we can just describe how the form looks and behaves as a function of the form's state.

```
class Form extends React.Component {
    constructor () {
        super()
        this.state = {
            username: ''
        }
    }

    handleChange = (evt) => {
        this.setState({
            username: evt.target.value
    })
}

render () {
    <form>
        <input type='text' name='username' onChange={this.handleChange} /-
        <button type='submit'>Submit</button>
    </form>
    }
}
```

```
class Form extends React.Component {
      constructor () {
        super()
        this state = {
          username: ''
      handleChange = (evt) => {
        this.setState({
          username: evt.target.value
        })
      handleSubmit = (evt) => {
        evt.preventDefault()
       console.log('Submitting: ', JSON.stringify(this.state))
       render () {
        <form onSubmit={this.handleSubmit}>
  <input type= text name= username onChange={this.handleChange} />
  <button type='submit'>Submit</button>
        </form>
   }
♦ FULLSTACK
                                                                                 REACT.JS INPUT
```

