FORMS

Do what you gotta do

"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

WEB 1.0 FORMS

POST /purchase HTTP /1.1

```html
<form method="post" action="/purchase">

    <!-- inputs go here -->

    <button type="submit">Submit</button>
</form>
```

PAGE REFRESH

CLICK

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**

FORMS WITH AJAX

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!**

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

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

form.addEventListener('submit', (event) => {

})
```

```javascript
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



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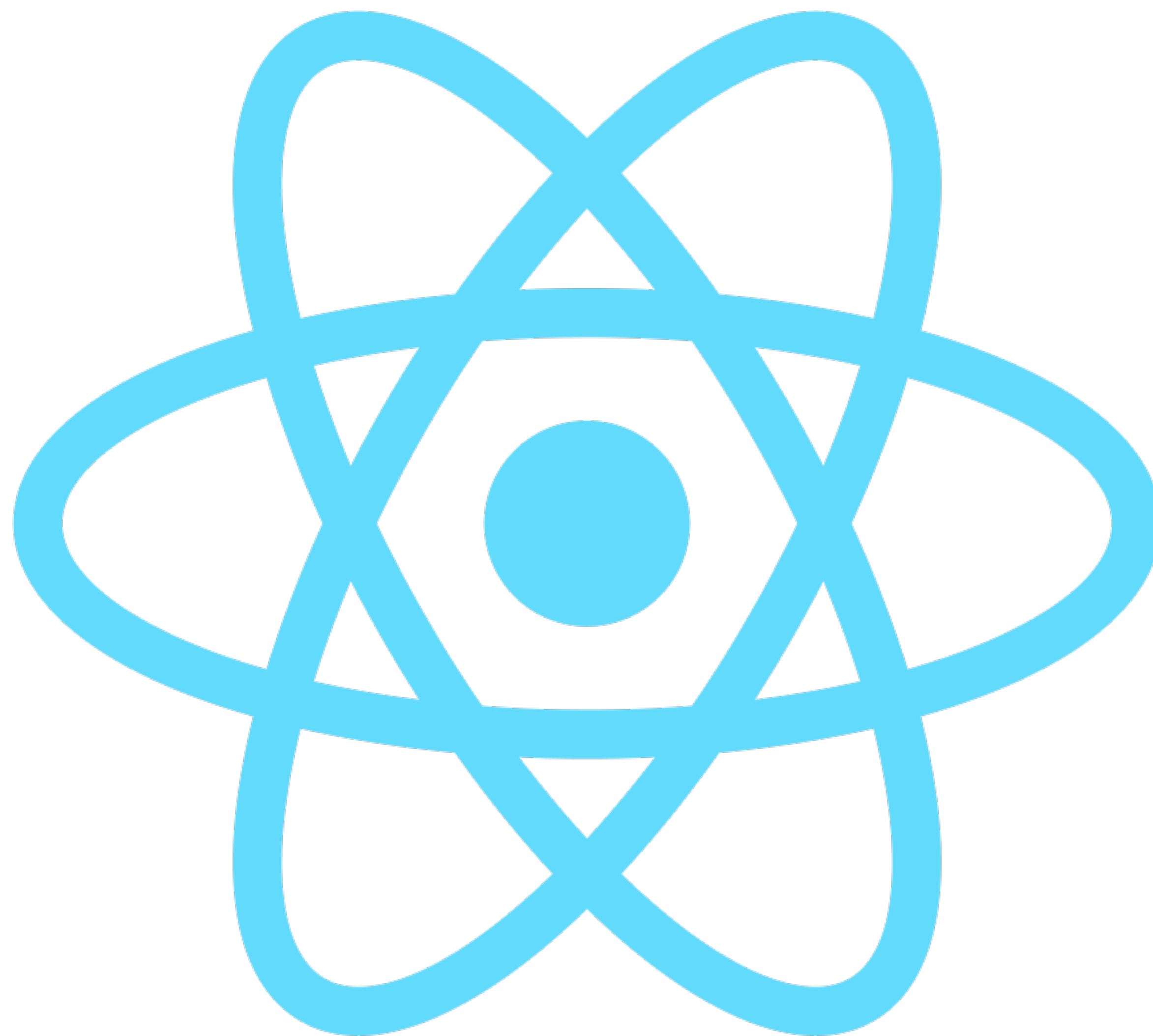
```
const form = document.getElementById('purchaseForm')

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
})
```

```jsx
class Form extends React.Component {



























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

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


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

```jsx
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>
  }
}
```

```jsx
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>
  }
}
```

LET'S WRITE A FORM