

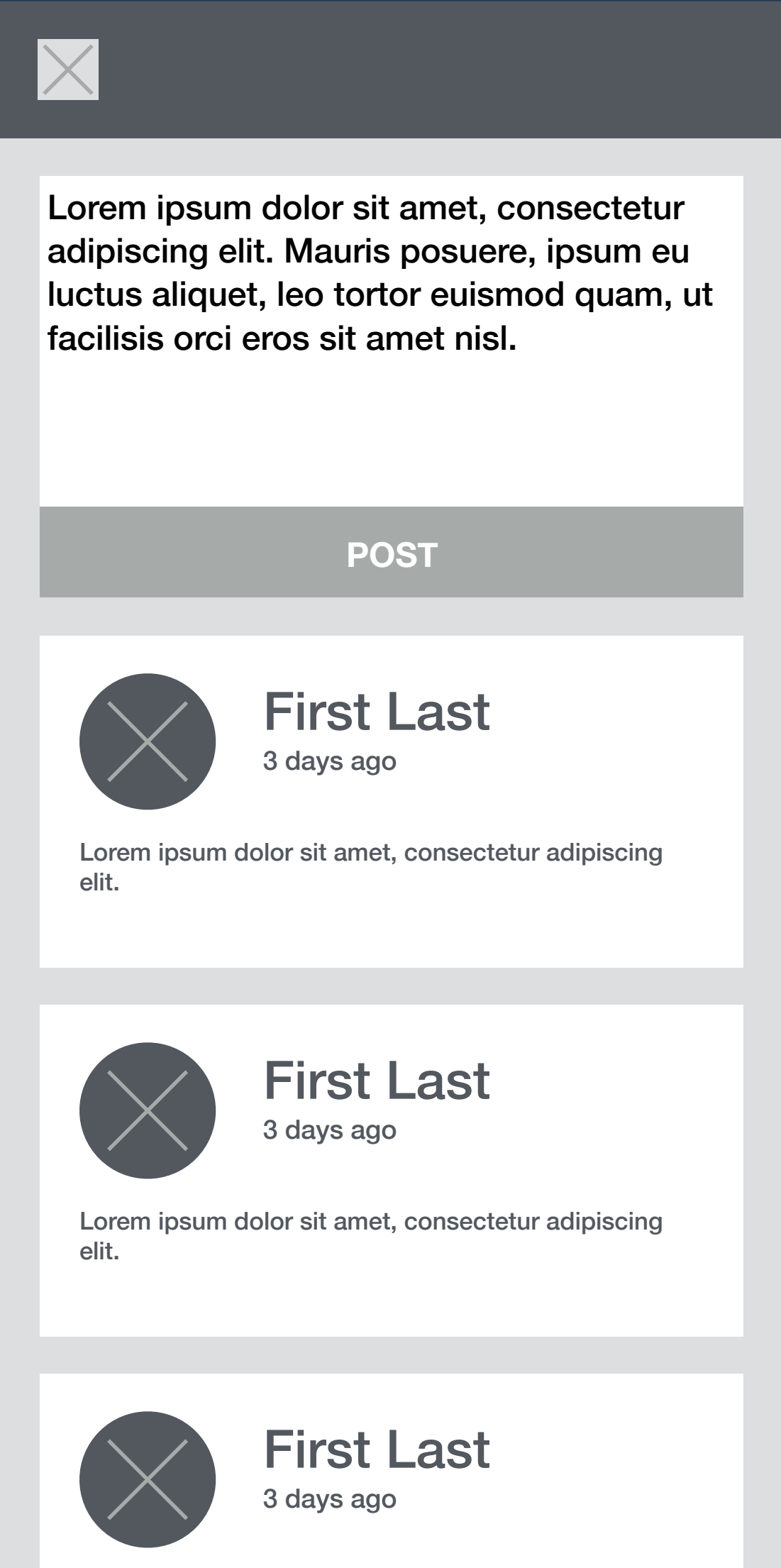
React

W5D2

Objectives

Components
Props & State
The Flow of Data
Events

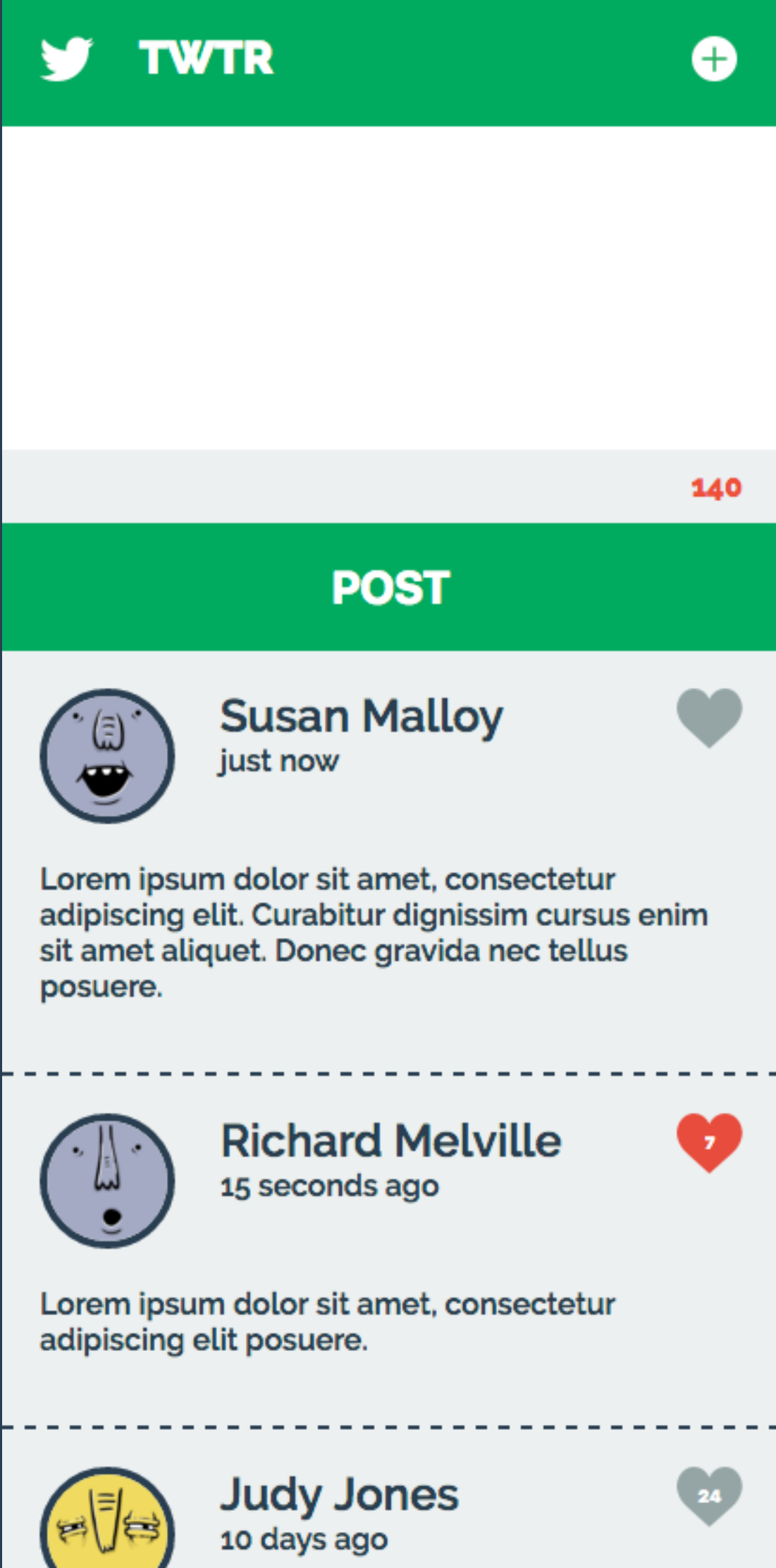
Wireframe



Sketch

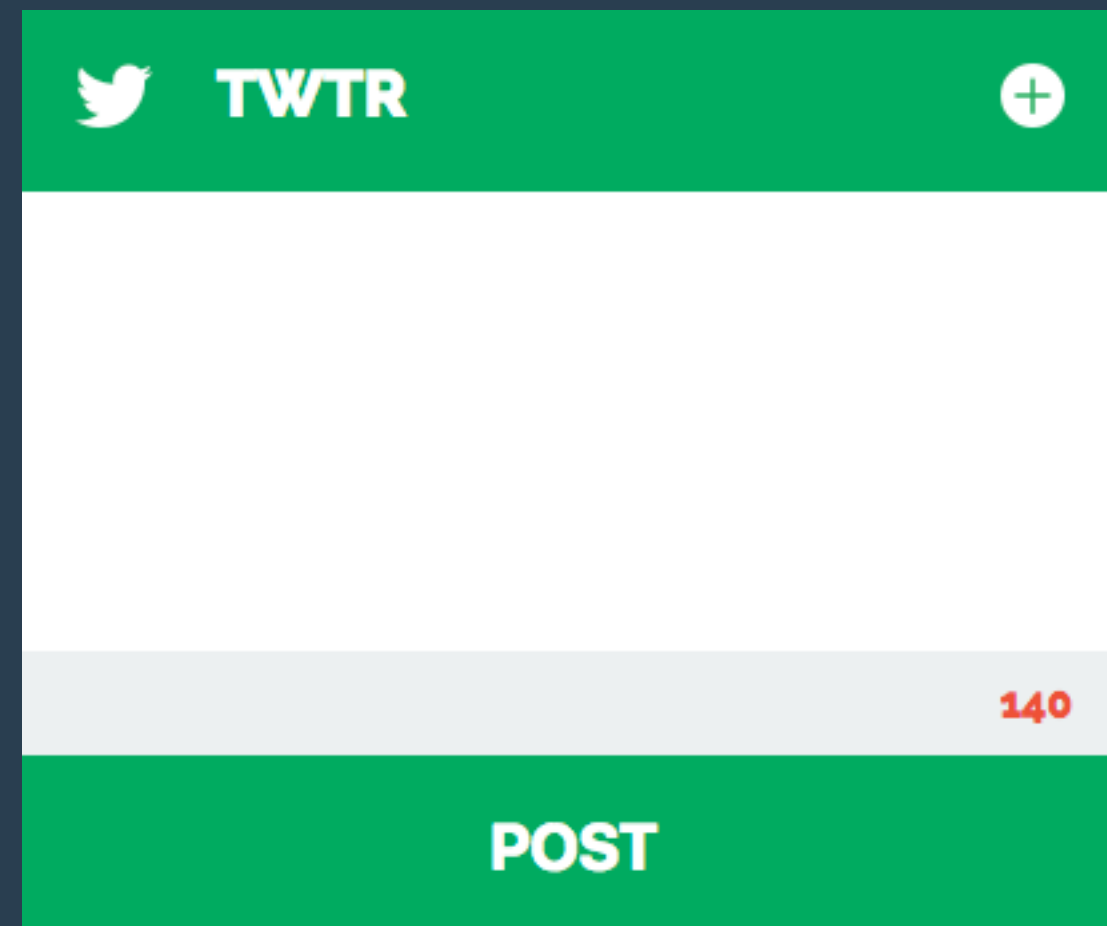


HTML

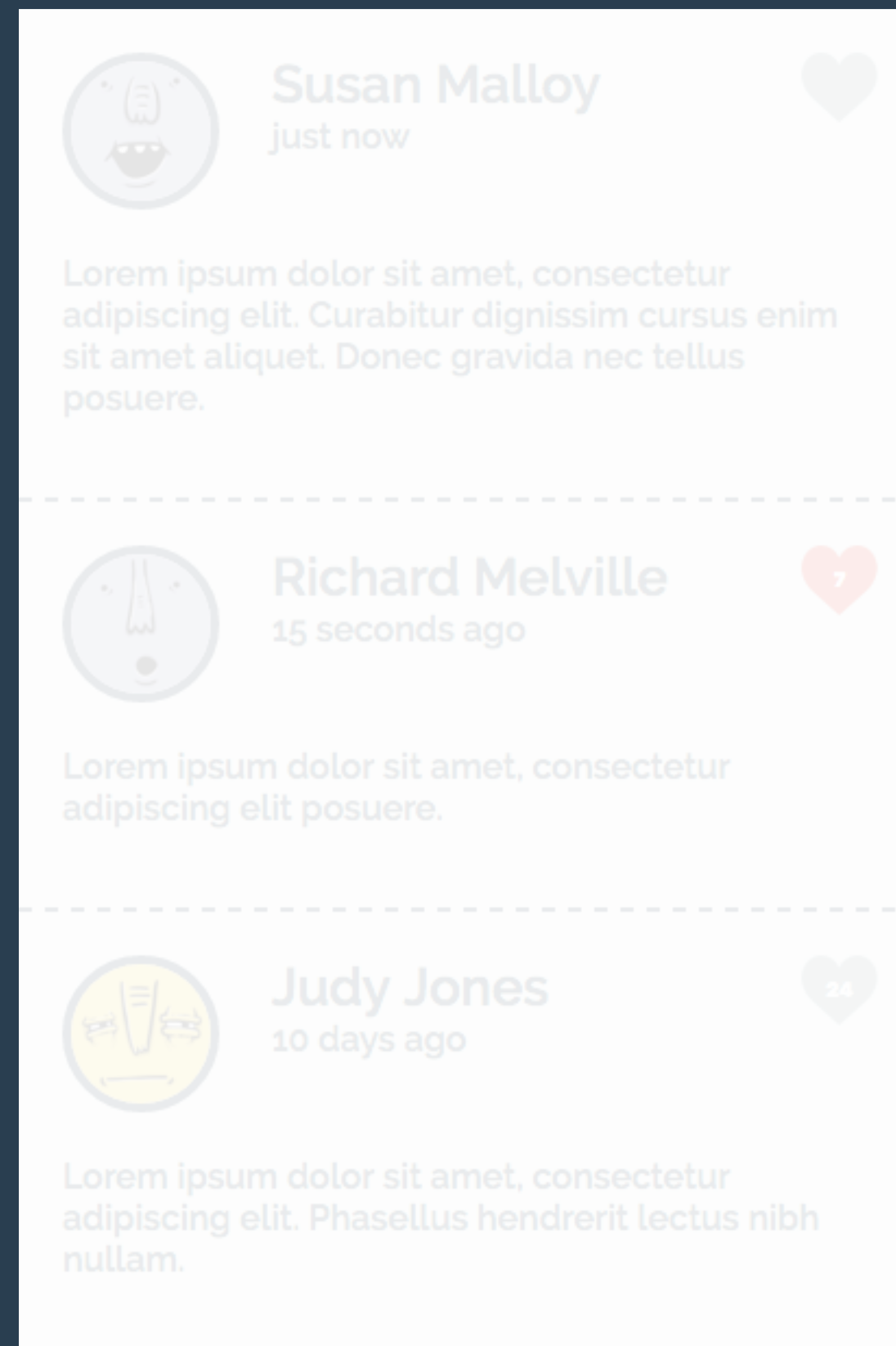


Components

Header

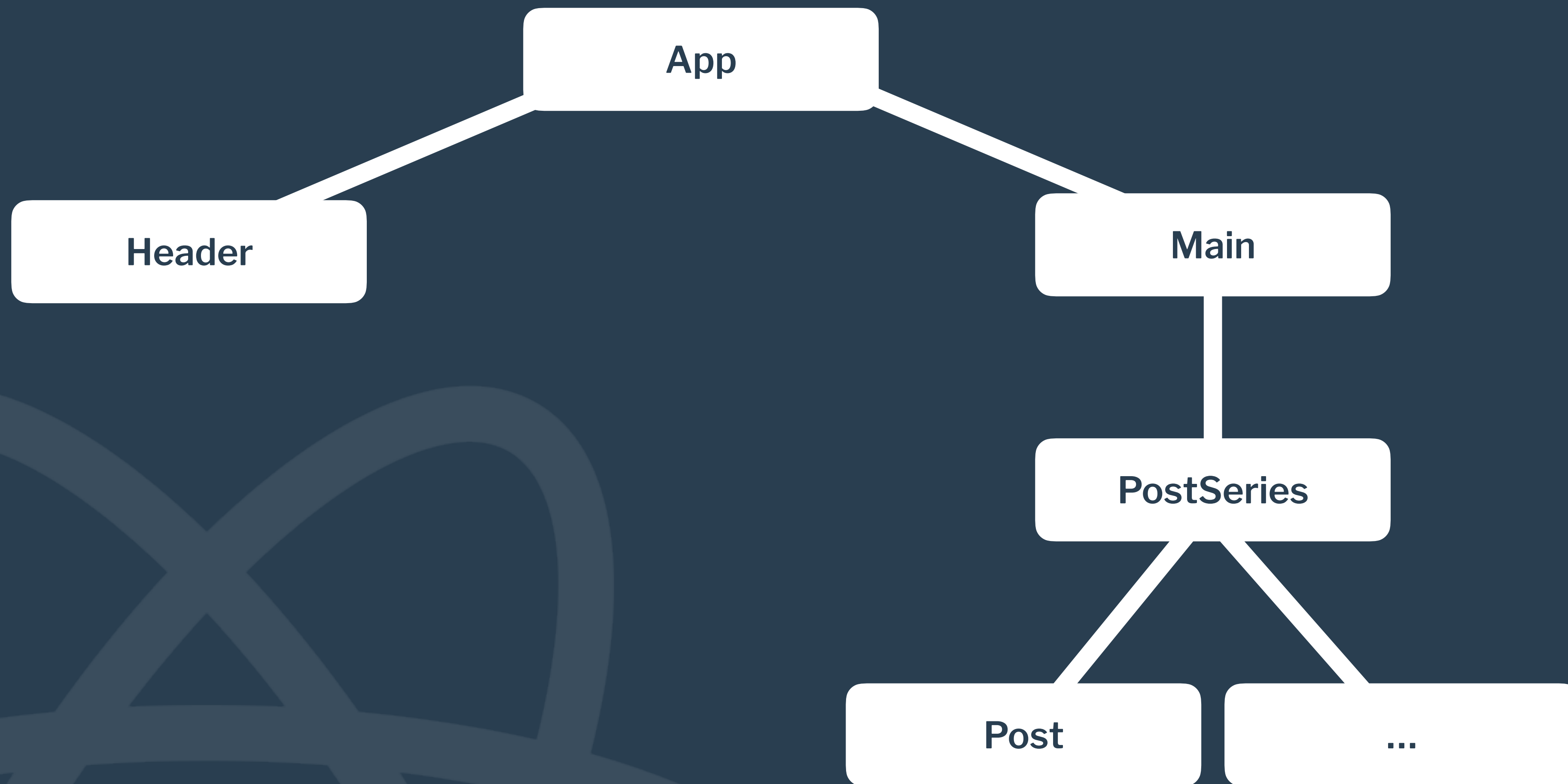


Series



Post



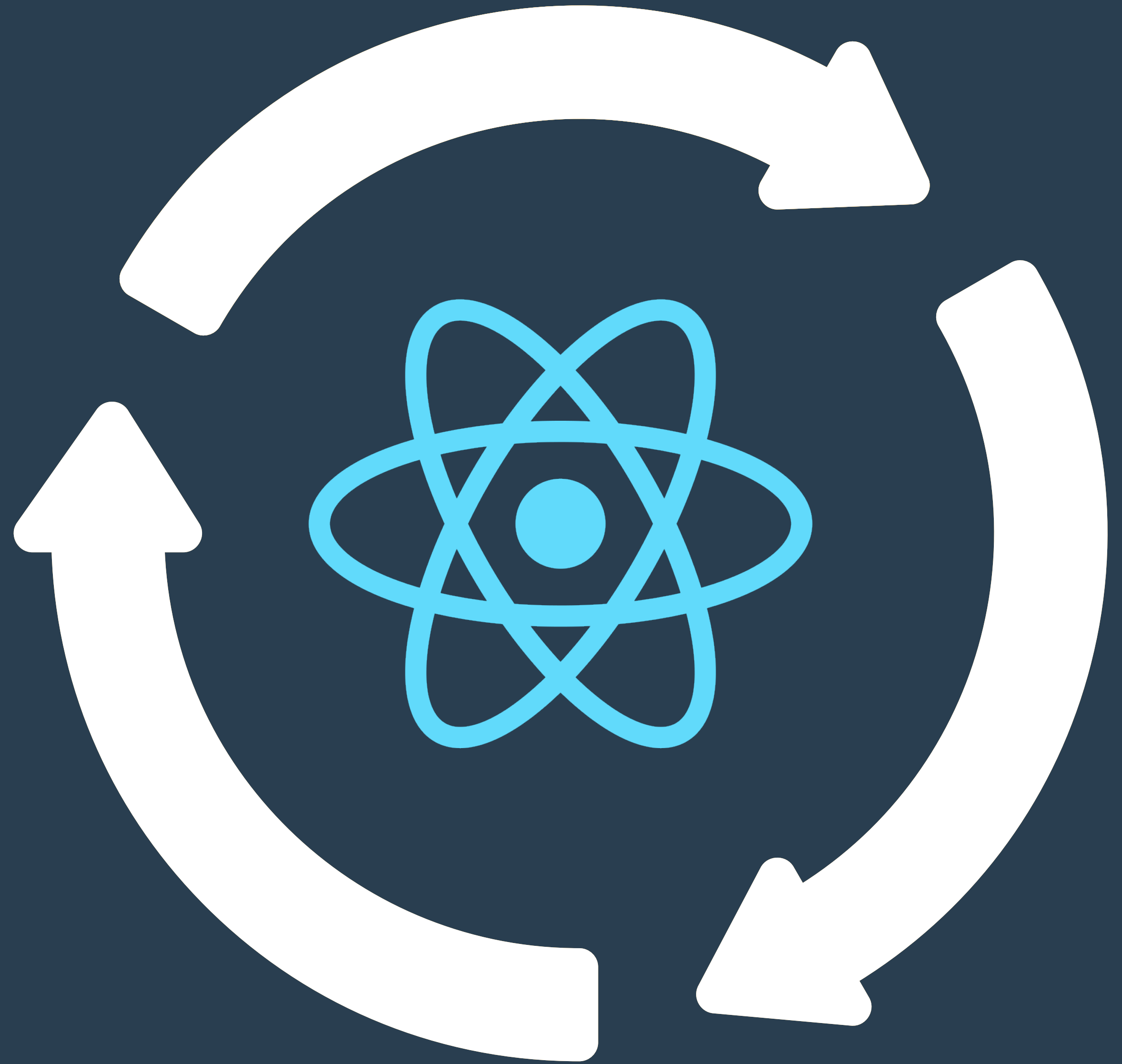


Props & State

A React component cannot change it's props.

A React component can change it's own state.

React
Component
Lifecycle



Create

constructor()
componentWillMount()
render()
componentDidMount()

Update

componentWillReceiveProps()
shouldComponentUpdate()
componentWillUpdate()
render()
componentDidUpdate()

Destroy

componentWillUnmount()

Mounting

constructor

componentWillMount

render

componentDidMount

Updating

componentWillReceiveProps

shouldComponentUpdate

componentWillUpdate

componentDidUpdate

Unmounting

componentWillUnmount

Mounting

- **initial state**
- **default props**

constructor



componentWillMount



render



componentDidMount

Updating

componentWillReceiveProps



shouldComponentUpdate



componentWillUpdate



componentDidUpdate

Unmounting

componentWillUnmount



setState



render

Do not modify state directly.



```
this.state.posts = [ ];
```



```
this.setState({ posts: [ ] });
```

State updates are merged.

```
constructor() {  
  super();  
  
  this.state = {  
    content: '',  
    error: ''  
  };  
}
```

```
onSetUserName() {  
  this.setState({  
    error: 'Failed.'  
  });  
}
```

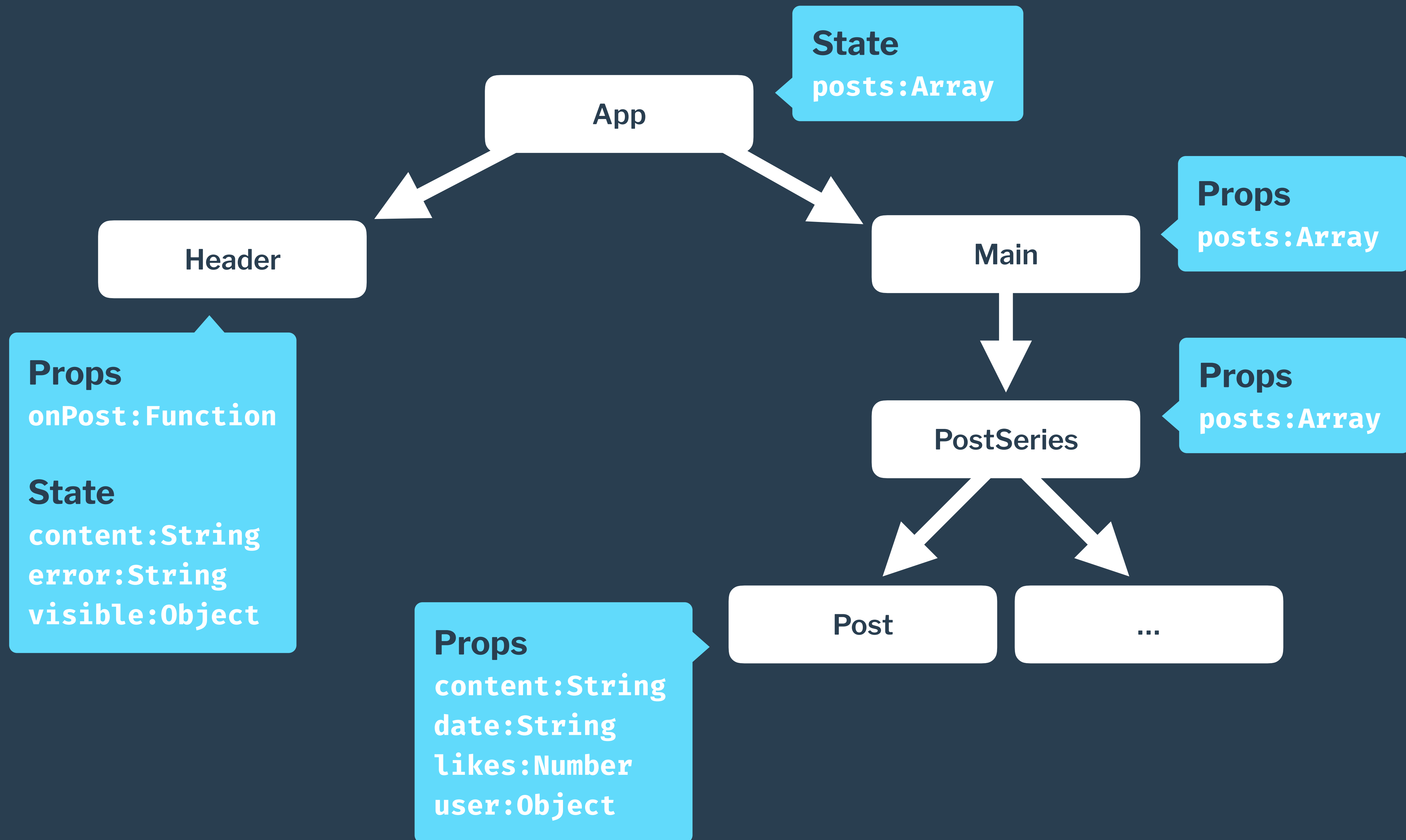
State updates may be asynchronous.



**React may batch multiple
setState() calls into a single
update for performance.**

The Flow of Data





onPost("Content");

App

props

Header

Props

onNewPost: Func

State

content:String

error:String

visible:Object

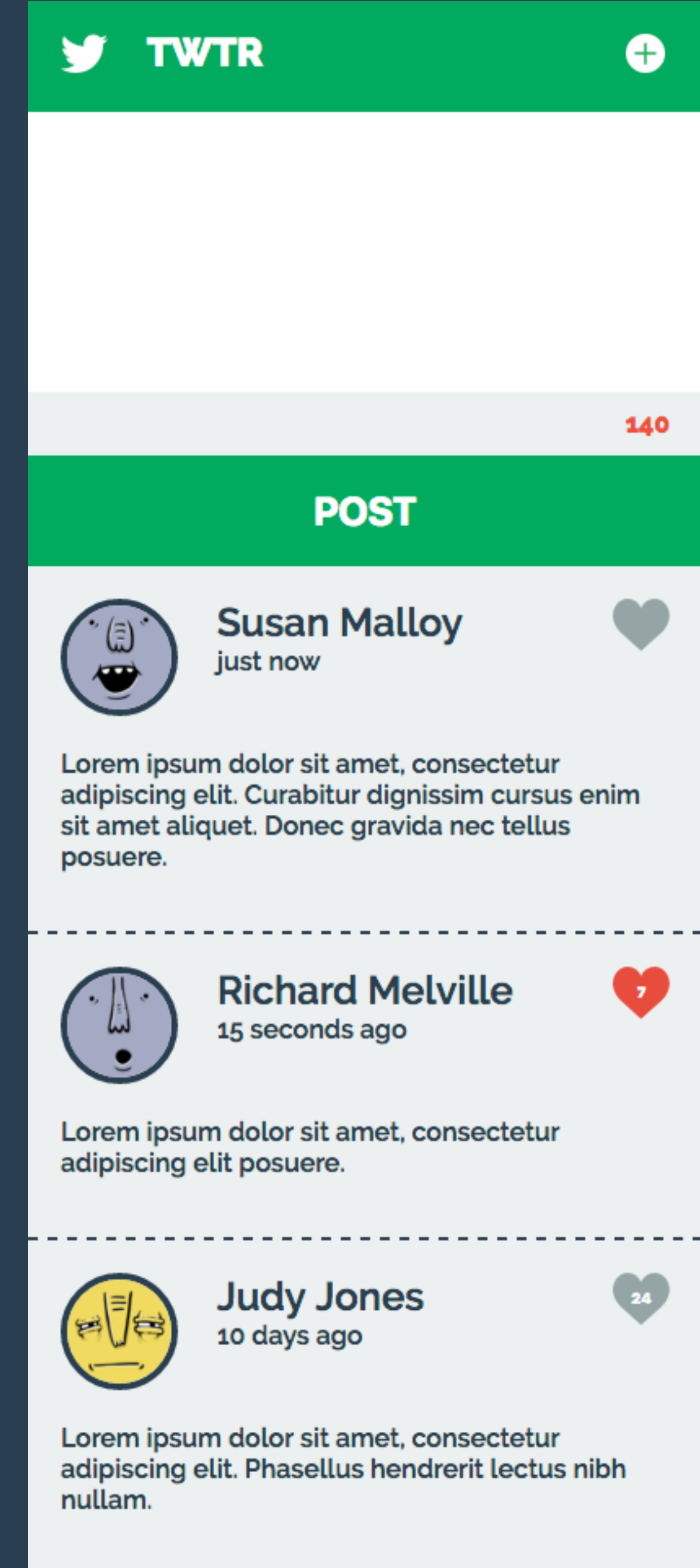


Handling Events

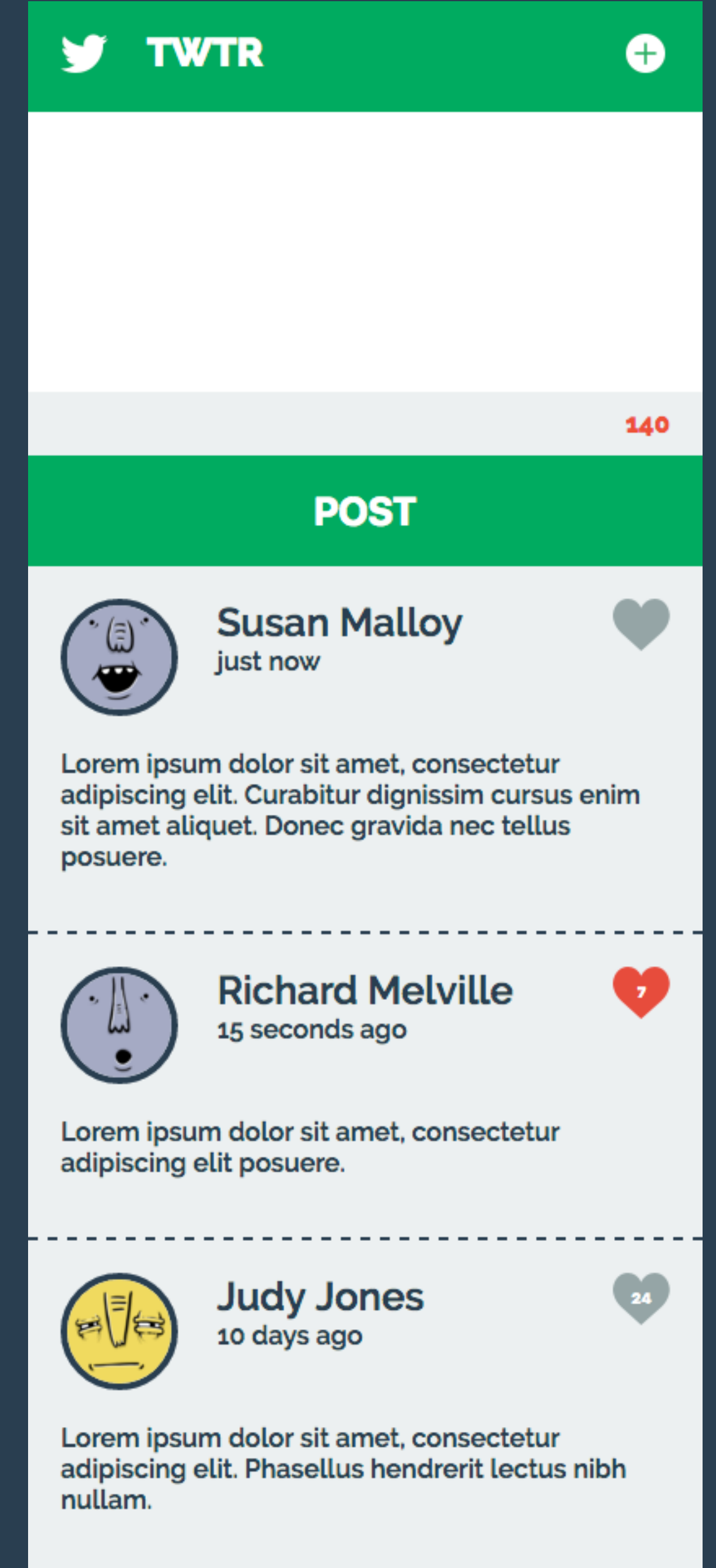
```
<button onClick={ this.onPost }>  
</button>
```



Questions?



Let's do this.



Let's do this?

