# Designing React Components

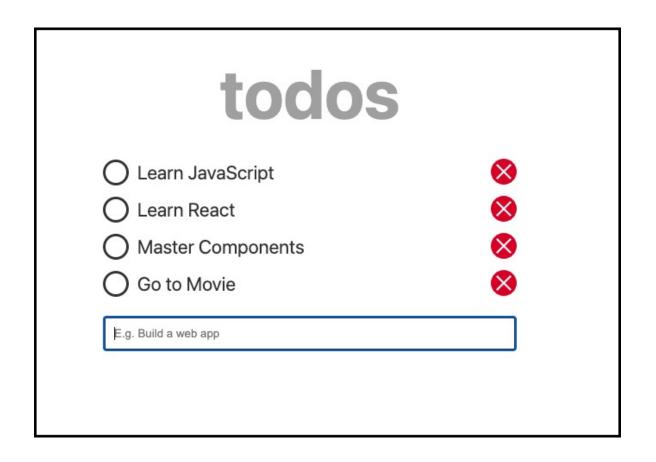
Designing Better Components with React

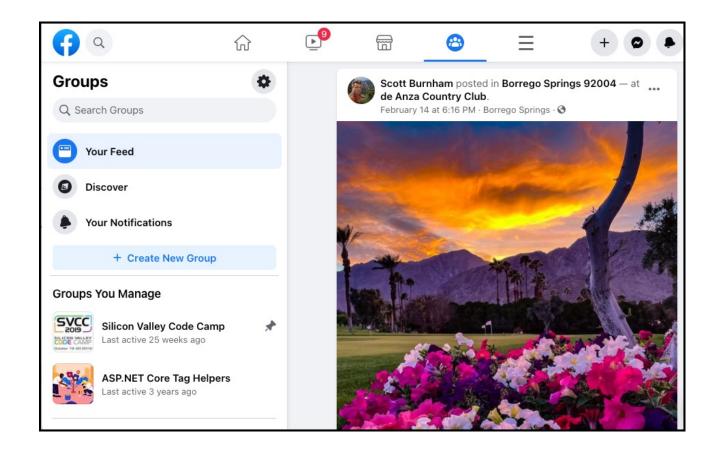


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# Good Component Design



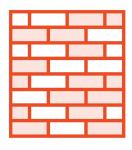


Basic "To Do" app

Full Facebook app



### What is a React Component?



Building blocks that when combined together create a Ul



Independent, reusable parts of an app



Allow for easy building combined with a great browser experience





```
class Welcome extends React.Component {
   render() {
     return (
        <h1>Hello, {this.props.name}
        </h1>
   );
  }
}
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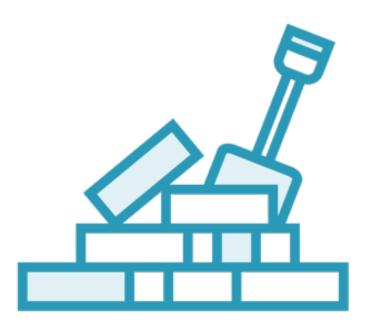
### Course Goals for Building React Apps



Ability to build apps more easily



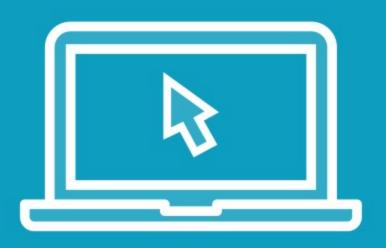
Build apps that are more scalable



Apps created are easier to maintain

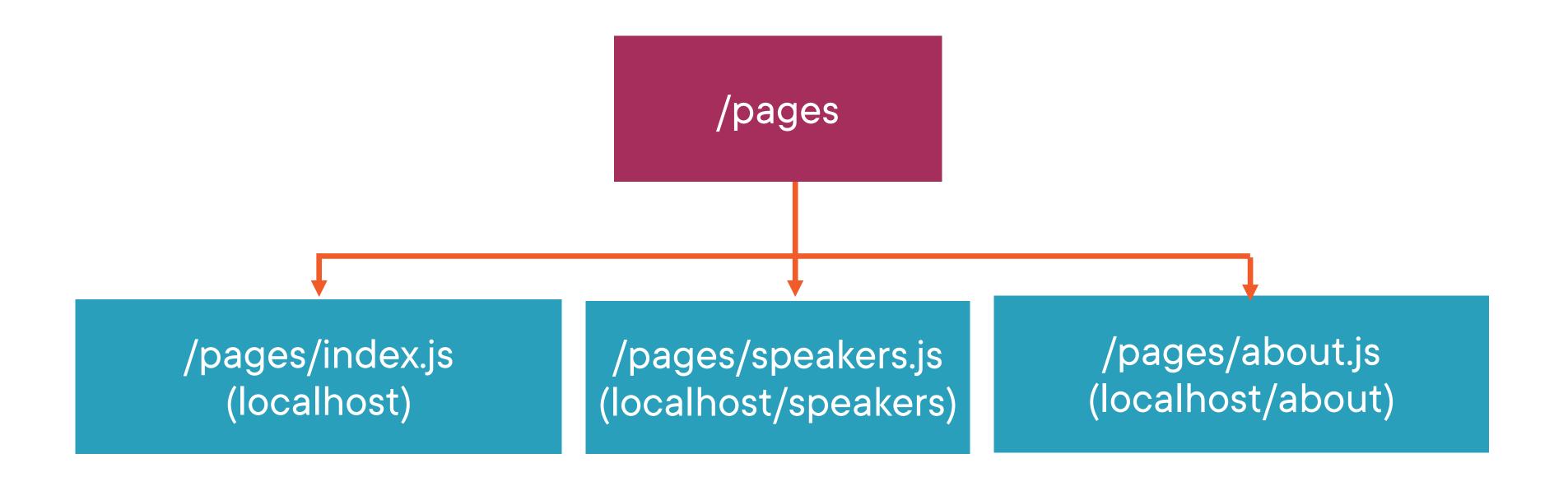


### Demo

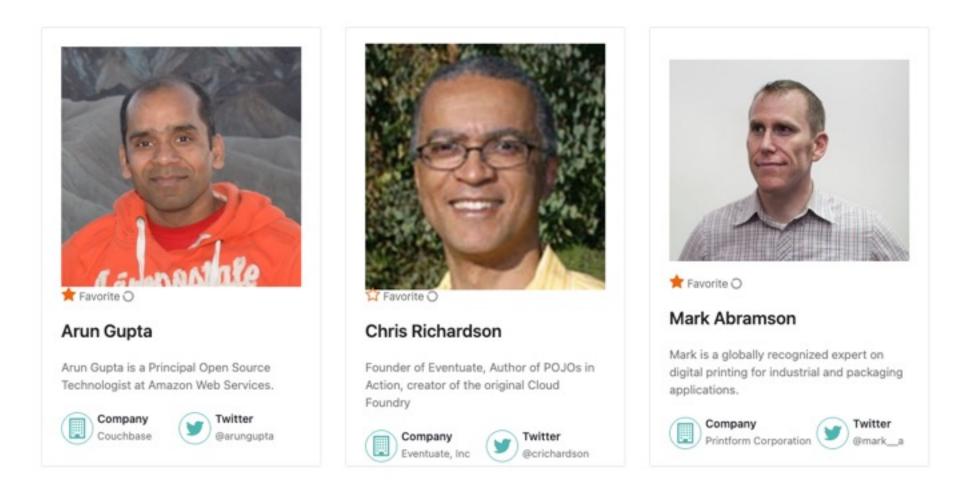


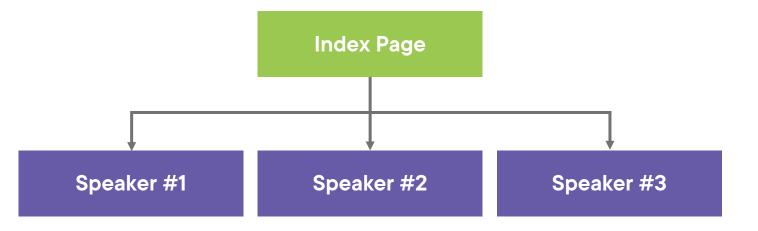
Build our conference speaker page with Visual Studio Code and Nextjs

# Nextjs File Based Routing

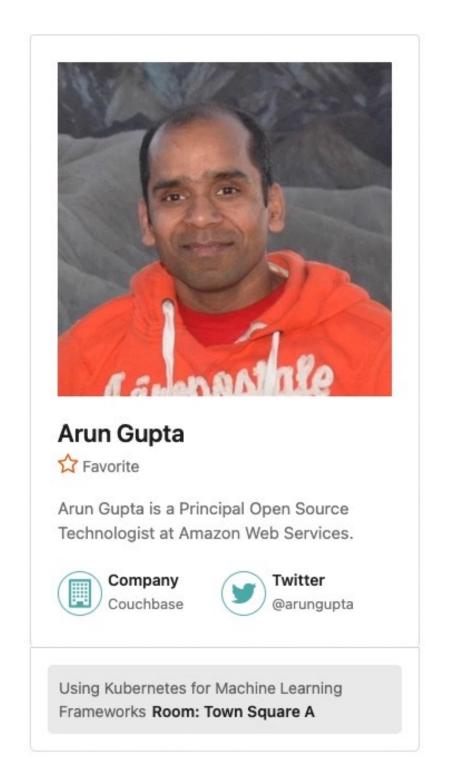


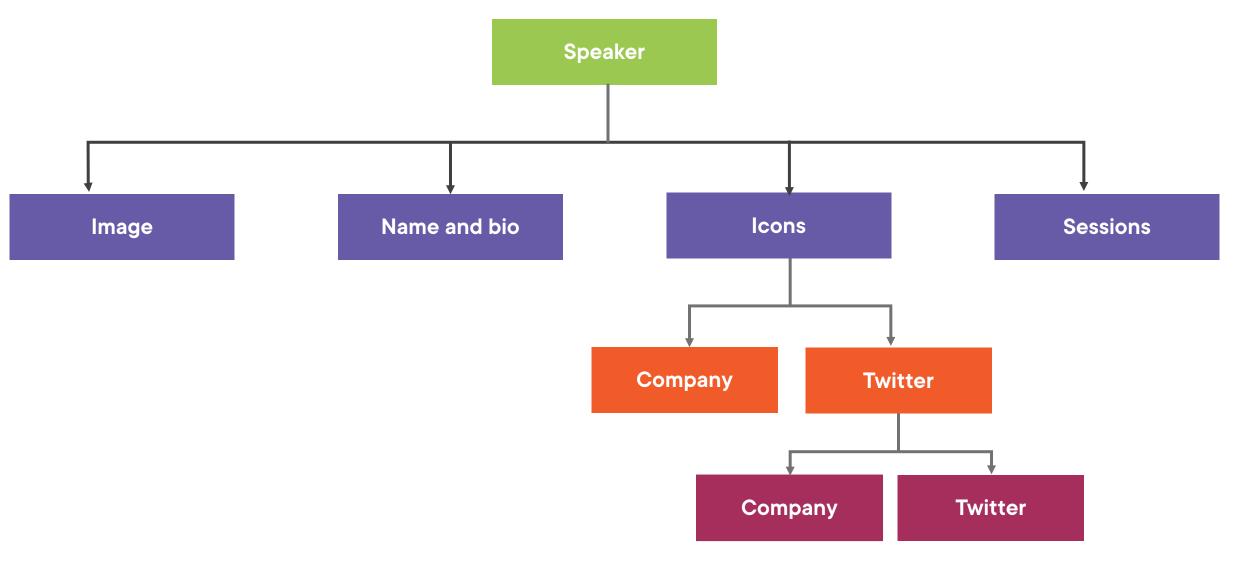
# Component Dive into the Speaker Component





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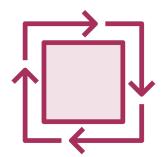


# Design Principles for Designing Components





Be concise and keep each bullet to 2 lines or fewer



Add relevant icons on the left for each text item on the right



An alternative to bullets



### Refactor to Multiple Components

#### Single component

#### Multiple components

```
function IndexPage() {
  return (function SpeakersList() {})}

function SpeakersList() {
  return (function Speaker() { })}

function Speaker() {
  return (function Sessions() { })}

function Sessions() {
  return (function Session() { })}
```

### Module Takeaways



- React Functional Components are just JavaScript functions
- Building React Components are just best practices JavaScript coding
- Coming up ... state and bringing our React app to life

