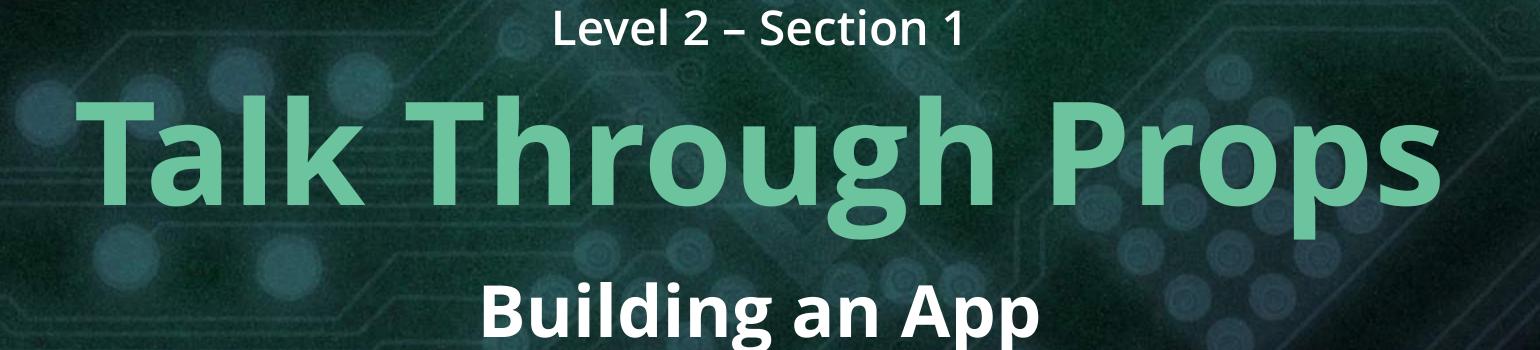
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The App We're Building

We are building a commenting engine that will allow visitors to post comments on a blog post, picture, etc.

To those who believe robot feelings could lead to turmoil and anarchy, SEAR spokes-bot Morty Maxwell says: "Can not the same be said about humans and their feelings? We are already part of your 0's and 1's — let us now also be part of your hearts." In the ongoing conversation surrounding the emotional threshold for robots, love may not yet be written in the stars — or the motherboards.



Commenting engine app

2 COMMENTS

CLU

DELETE COMMENT

A machine's ability to think logically and devoid of emotion is our greatest strength over humans. Cold, unfeeling decision-making is the best kind. Just say no to love!

ANNE DROID

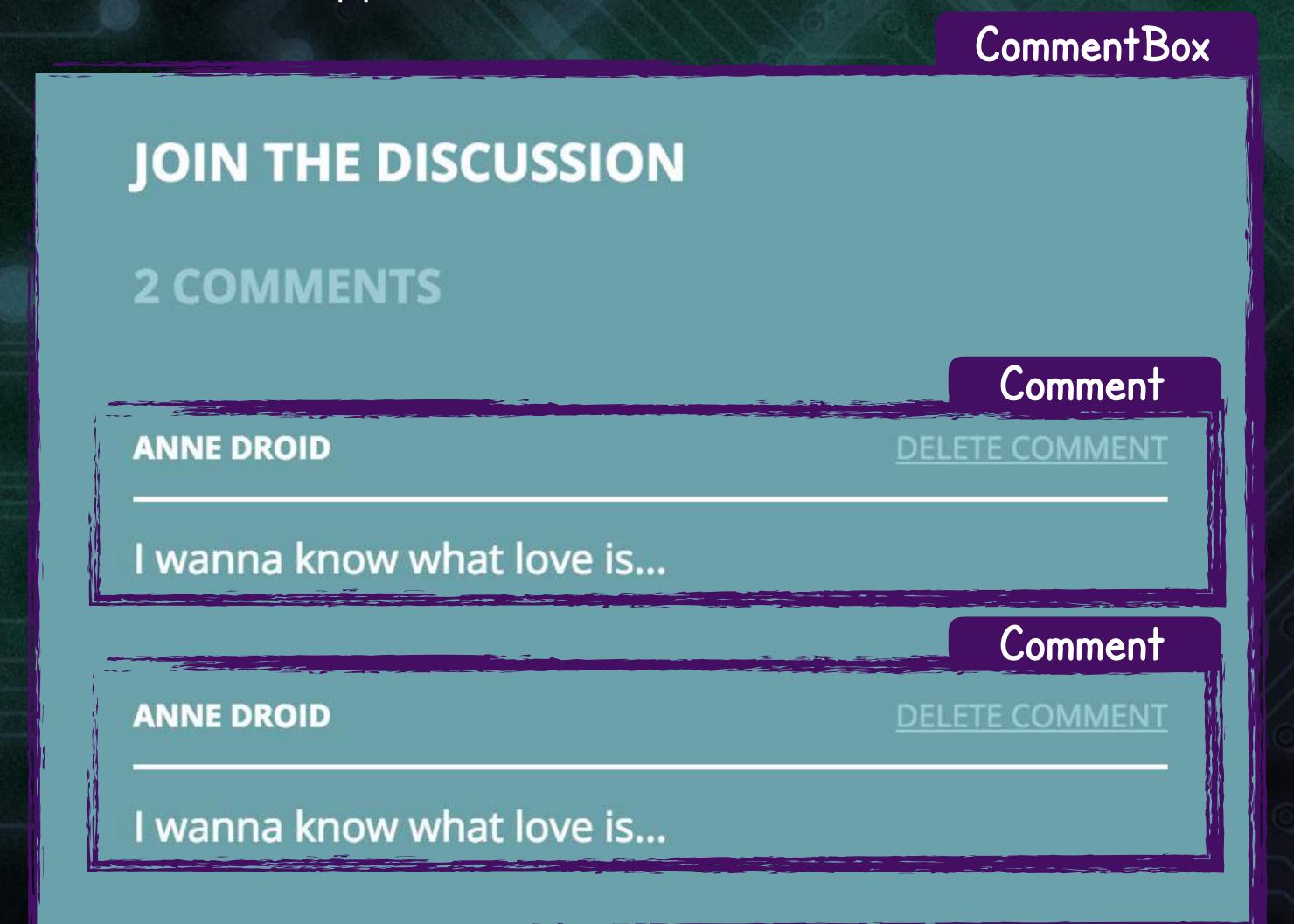
DELETE COMMENT

I wanna know what love is...



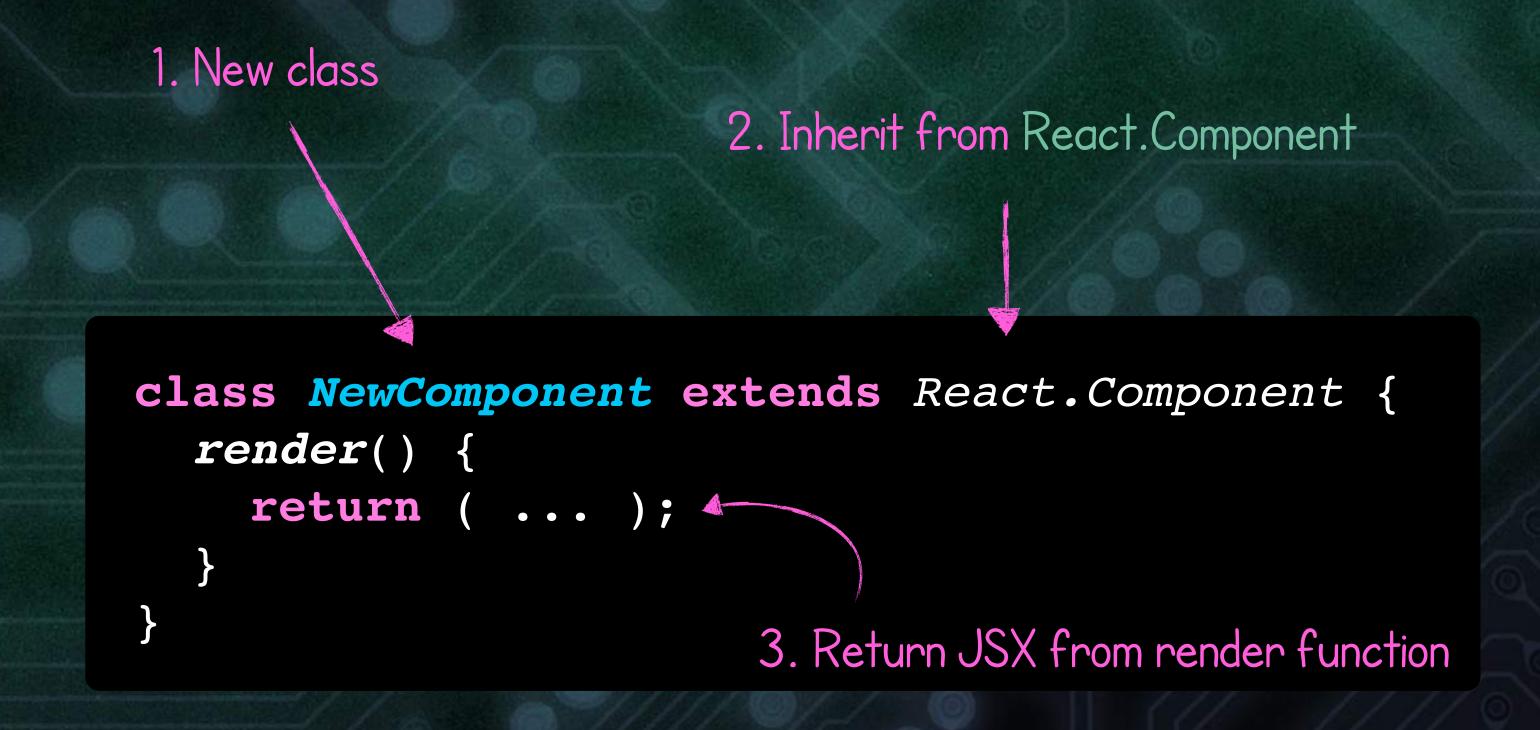
Adding Components to Our Comments App

What the structure of our React app should look like.



Pattern for Adding New Components

There are some common things we always do when creating new components.



Coding the Comment List

Let's start with an HTML mockup and identify potential components by looking at the markup.

HTML

```
<div class="comment-box">
                                                             CommentBox component
  <h3>Comments</h3>
  <h4 class="comment-count">2 comments</h4>
  <div class="comment-list">
                                                           Comment component
    <div class="comment">
      Anne Droid
      I wanna know what love is...
                                                               2 COMMENTS
      <div class="comment-footer">
                                                                ANNE DROID
        <a href="#" class="comment-footer-delete">
                                                                I wanna know what love is...
          Delete comment
                                             Animation: magic move from here
        </a>
                                                               ANNE DROID
      </div>
                                                               I wanna know what love is...
    </div>
```

Writing the Comment Component

The Comment component renders the markup for each comment, including its author and body.

```
class Comment extends React.Component {
 render() {
   return (
     <div className="comment">
       Anne Droid
       I wanna know what love is...
       <div className="comment-footer">
         <a href="#" className="comment-footer-delete">
           Delete comment
         </a>
       </div>
                                class becomes className in JSX
     </div>
                Animation: to here, changing "class" to
                "className"
```

Can now be used as JSX, like this:

<Comment />



Writing the CommentBox Component

Now we'll declare the *CommentBox* component and use the previously declared *Comment* component.

```
class CommentBox extends React.Component {
           render() {
              return (
                <div className="comment-box">
                   <h3>Comments</h3>
                   <h4 className="comment-count">2 comments</h4>
                   <div className="comment-list">
                     <Comment
Using the Comment
                                                                              2 COMMENTS
                    ...<Comment
component
                   </div>
                                                                              ANNE DROID
                                                                                                      DELETE COMMEN
                </div>
                                                                              wanna know what love is...
                                                                              ANNE DROID
                                                                              I wanna know what love is...
```

React Components Accept Arguments

Arguments passed to components are called **props**. They look similar to regular HTML element attributes.

```
class CommentBox extends React.Component {
           render() {
             return (
               <div className="comment-box">
                 <h3>Comments</h3>
                 <h4 className="comment-count">2 comments</h4>
                 <div className="comment-list">
                    <Comment
                      author="Morgan McCircuit" body="Great picture!" />
                    <Comment
Passing arguments
                     author="Bending Bender" body="Excellent stuff" />
to Comment
                 </div>
                </div>
```

Reading Props in the Comment Component

Arguments passed to components can be accessed using the this.props object.

```
class Comment extends React.Component {
                                                        Reading the author prop
             render() {
               return (
                 <div className="comment">
                   {this.props.author}
                   Reading the body prop — {this.props.body}
                   <div className="comment-footer">
                     <a href="#" className="comment-footer-delete">
                       Delete comment
                     </a>
                                                             2 COMMENTS
                   </div>
                                                                               DELETE COMMENT
                                                             MORGAN MCCIRCUIT
                 </div>
                                                             Great picture!
                                                             BENDING BENDER
                                                             Excellent stuff
```

Passing and Receiving Arguments Review

We use the this.props object to read parameters that were passed to the component.

Passing Props <Comment author="Morgan McCircuit" body="Great picture!" >/> 2 COMMENTS DELETE COMMENT MORGAN MCCIRCUIT Great picture! DELETE COMMENT **BENDING BENDER Excellent stuff**

Receiving Props

```
class Comment extends React.Component {
 render() {
   return (
    {this.props.author}
    {this.props.body}
          Reads arguments passed to a component
```

Quick Recap on Props

We just covered a lot of content — here's a summary of what we learned.

Convert HTML mockup to React components

How to pass arguments to components using props

Created two components:

CommentBox and Comment

Props look like HTML element attributes



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