# POWERING UP with Carlot of the Carlot of the



## Talking to Remote Servers

Adding and Deleting Comments on the Server Side



## Deleting Comments

Our comments have a Delete Comment button now, but no delete actions are associated to it.

#### 2 COMMENTS

**HIDE 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...

Delete buttons do not work yet.



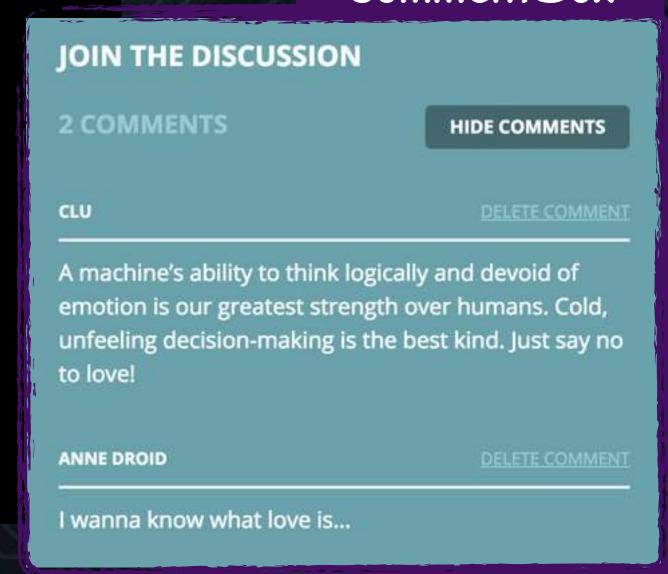
## Deleting From the API

The CommentBox component needs a new method to delete individual comments.

```
class CommentBox extends React.Component {
deleteComment(comment) {
  jQuery.ajax({
    method: 'DELETE',
    url: \(\tagi/\text{comments/\${comment.id}}\)
  } );
               Using ES2015 string template syntax
```

Makes call to API to delete comment

#### CommentBox



#### Updating the Comment List

We will not wait for the API request to be finished before updating the component's state. We will give our user immediate visual feedback, which is known as an optimistic update.

```
class CommentBox extends React.Component { ...
deleteComment(comment) {
                                 use spread operator to
  jQuery.ajax({
                                 clone existing array
    method: 'DELETE',
    url: `/api/comments/${comment.id}`
                                                 removes comment
  });
                                                 from array
  const comments = [...this.state.comments];
  const commentIndex = comments.indexOf(comment);/
  comments.splice(commentIndex, 1);
  this.setState({ comments });
                                                                 to love
         Updates state with modified comments array
```

#### CommentBox

#### JOIN THE DISCUSSION

2 COMMENTS

HIDE COMMENTS

CLU

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ANNE DROID

I wanna know what love is...

### Passing a Callback Prop to Comment

Events are **fired** from the *Comment* component. Since the event handler is **defined** on the parent component *CommentBox*, we'll pass it as a prop named *onDelete*.

```
class CommentBox extends React.Component {
getComments() {
 return this.state.comments.map(comment => {
    return
      <Comment
         key={comment.id}
         comment={comment}
        onDelete={this. deleteComment.bind(this)}
                    Will later be called in the context
                    of the CommentBox component
```

Sends this.\_deleteComment as argument to child component



#### Adding an Event Listener to the Delete Button

Let's add an event listener to the Delete Comment button and call the onDelete callback prop.

```
class Comment extends React.Component {
render() {
  return (
    <a href="#" onClick={this. handleDelete.bind(this)}>
      Delete comment
    </a>
                        same function
 handleDelete(event) {
  event.preventDefault();
  this.props.onDelete(this.props.comment);
```

Call the onDelete prop when button is clicked

When a user clicks on the link, the onClick event is emitted...



...which invokes the \_handleDelete() function.

#### Adding a Confirmation to the Delete Button

Let's add an if statement and only call the onDelete callback prop if confirm was true.

```
class Comment extends React.Component {
 render() {
    return(
        <a href="#" onClick={this. handleDelete.bind(this)}>Delete comment</a>
                                                                     Shown after button click
  handleDelete(e) {
                                                                                          C javascript-roadtrip.codeschool.com
    e.preventDefault();
                                                                                                3 COMMENTS
                                                                                                                          HIDE COMMENTS
     if (confirm('Are you sure?')) {
        this.props.onDelete(this.props.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
                                                                                                wanna know what love is...
    Show confirmation box before deleting
                                                                                                MORGAN MCCIRCUIT
                                                                                               Great picture!
```

#### Comments Aren't Added to a Remote Server

We would like to post new comments to a remote server so they can persist across sessions.

```
class CommentBox extends React.Component {
                                                                    ID should be generated
 addComment(author, body) {
                                                                    on the server side
   const comment = { id: this.state.comments.length + 1, author, body };
   this.setState({ comments: this.state.comments.concat([comment]) });
           Should make the server-side request before
                                                                                                  CommentBox
           updating the state
                                                                                   JOIN THE DISCUSSION
                                                                                   2 COMMENTS
                                                                                                       HIDE COMMENTS
                                                                                   CLU
                                                                                   A machine's ability to think logically and devoid of
                                                                                   emotion is our greatest strength over humans. Cold,
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```

to love!

#### Posting Comments to a Remote Server

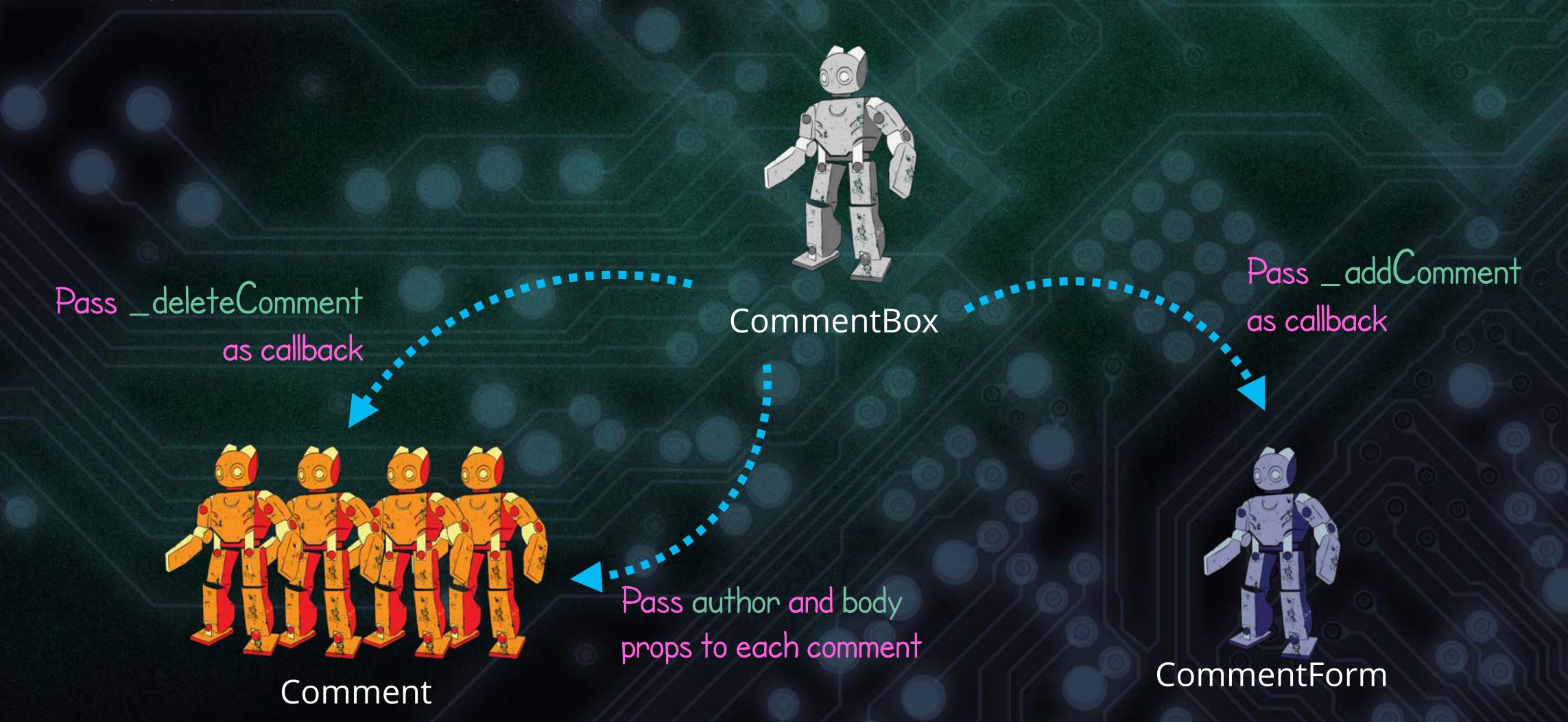
We learned how to add new comments using a form. Now let's make sure the new comments are sent to a remote server so they can be persisted.

```
class CommentBox extends React.Component {
  addComment(author, body) {
   const comment = { author, body };
   jQuery.post('/api/comments', { comment })
      .success(newComment => {
         this.setState({ comments: this.state.comments.concat([newComment]) });
      });
                                                                                                   CommentBox
                                                                                     JOIN THE DISCUSSION
           State is only updated when we get the
                                                                                     2 COMMENTS
                                                                                                        HIDE COMMENTS
           new comment from the API request
                                                                                     CLU
                                                                                     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!

#### One-way Control Flow

Control flows from **higher level components** down to child components, forcing changes to happen *reactively*. This keeps apps **modular and fast**.



## Quick Recap

Here's a review of the two most important things we learned in this section.

Parent components can send data to child components using props.

Child components can accept callback functions as props to communicate back with parent components.



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