## Identifying Props being Drilled

In this lesson, we will identify and understand the props drilling in our Mini-Bank Application.

## WE'LL COVER THE FOLLOWING ^ Root Component Login Component

## **Root Component** #

The root component of the application is called **Root** and has the implementation below:

## Login Component #

If the user is logged in, the main component App is rendered. If not, we show the Login component.

Upon a successful login (which doesn't require any particular username and password combinations), the <a href="state">state</a> of the <a href="Root">Root</a> application is updated with a <a href="loggedInUser">loggedInUser</a>.

```
...
handleLogin = evt => {
    ...
    this.setState({
       loggedInUser: USER
    })
}
...
```

In the real world, this could come from an api call.

For this application, I've created a fake user in the api directory that exports the following user object.

```
export const USER = {
  name: 'June',
  totalAmount: 2500701
}
```

Basically, the name and totalAmount of the user's bank account are retrieved and set to state when you log in.

How's the user object used in the application?

Well, consider the main component, App. This is the component responsible for rendering everything in the app other than the Login screen.

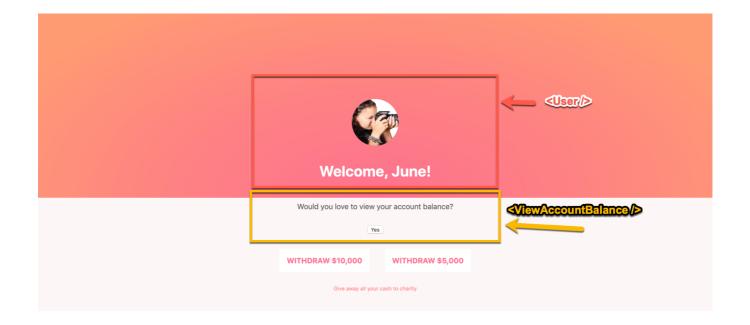
Here's the implementation:

```
class App extends Component {
   state = {
```

```
showBalance: talse
displayBalance = () => {
  this.setState({ showBalance: true })
render () {
  const { loggedInUser } = this.props
  const { showBalance } = this.state
  return (
    <div className='App'>
              <User loggedInUser={loggedInUser} profilePic={photographer} />
              <ViewAccountBalance
        showBalance={showBalance}
        loggedInUser={loggedInUser}
        displayBalance={this.displayBalance}
      />
      <section>
        <WithdrawButton amount={10000} />
        <WithdrawButton amount={5000} />
      </section>
      <Charity />
    </div>
}
```

It's a lot simpler than it seems. Have a second look!

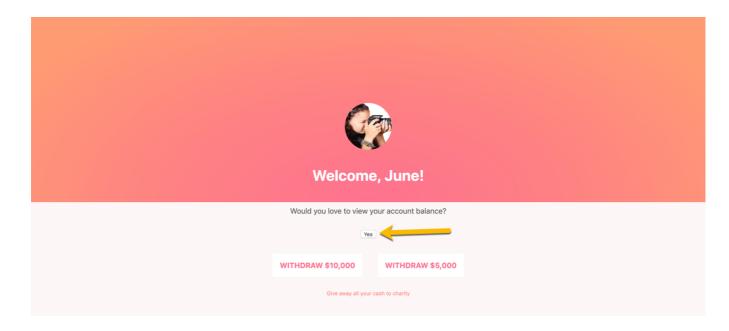
The loggedInUser is passed as a prop from Root to App, and is also passed down to both User and ViewAccountBalance components.



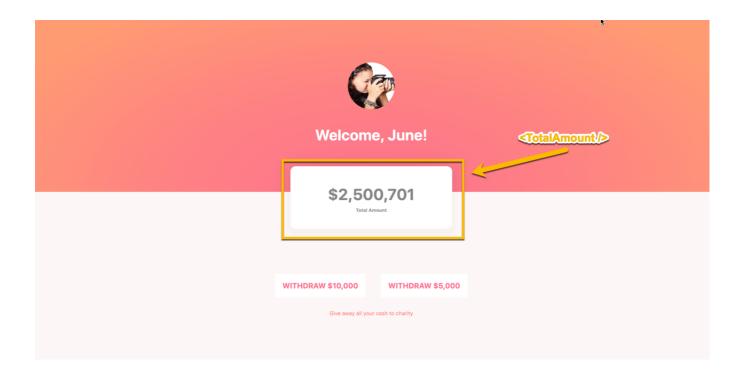
The User component receives the loggedInUser prop and passes it down to

another child component, Greeting which renders the text, "Welcome, June".

Also, ViewAccountBalance takes in a boolean prop, showBalance, which decides whether to show the account balance or not. This is toggled to true when you click the **yes** button.



From the code block above, do you see that ViewAccountBalance receives the loggedInUser prop only to pass it to TotalAmount?



TotalAmount receives this prop, retrieves the totalAmount from the user object and renders it.

I'm pretty sure you can figure out whatever else is going on in the code snippets above.

Having explained the code so far, do you see the obvious prop drilling here?

loggedInUser is passed down way too many times to components that don't even need to know about it.

Let's fix that with the **Context** API in the next lesson.