

# 128-Testing Login [video](#)

- go to Login.js and setup the imports

```
import React from 'react';

import { Link } from 'react-router';

import { Meteor } from 'meteor/meteor';

import { createContainer } from 'meteor/react-meteor-data';

export default class Login extends React.Component{

  constructor(props){

    super(props);

    this.state = {

      error: ' '

    };

  }

}
```

- next thing we need to do is restructure the exports Login, so our Login is going to be changed and named export instead of default

```
import React from 'react';

import { Link } from 'react-router';

import { Meteor } from 'meteor/meteor';

import { createContainer } from 'meteor/react-meteor-data';

export class Login extends React.Component{

  constructor(props){

    super(props);

    this.state = {

      error: ' '

    };

  }

}
```

- and down below we are going to setup that default
- and we want to export the createContainer(), we know that it takes two arguments, the first which is a function, and the second is the component you want to show on the screen, which in our case is Login

```
import React from 'react';

import { Link } from 'react-router';

import { Meteor } from 'meteor/meteor';

import { createContainer } from 'meteor/react-meteor-data';

export class Login extends React.Component{

  constructor(props){

    super(props);

    this.state = {

      error: ' '

    };

  }

  onSubmit(e){

    e.preventDefault();

    let email = this.refs.email.value.trim();

    let password = this.refs.password.value.trim();

    Meteor.loginWithPassword({email}, password, (err)=>{

      if(err){

        this.setState({error: 'Unable to login. Check email and password'});

      }else{

        this.setState({error: ''});

      }

    })

  }

  render(){

    return (
```

```

    <div className = "boxed-view">

      <div className = "boxed-view__box">

        <h1>Login</h1>

        {this.state.error ? <p>{this.state.error}</p>: undefined}

        <form onSubmit={this.onSubmit.bind(this)} noValidate className="boxed-view__
form">

          <input type="email" ref="email" name="email" placeholder="Email"/>

          <input type="password" ref="password" name="password"
placeholder="Password"/>

          <button className="button">Login</button>

        </form>

        <Link to="/signup">Need an account?</Link>

      </div>

    </div>

  );
}
}

export default createContainer(()=>{

},Login);

```

- inside of our function we are going to return an object

```

export default createContainer(()=>{

  return {

  }

}, Login);

```

- lets create a property loginWithPassword:

```
export default createContainer(()=>{
  return {
    loginWithPassword : Meteor.loginWithPassword
  }
}, Login);
```

- and now we can change the line up above to

```
import React from 'react';
import { Link } from 'react-router';
import { Meteor } from 'meteor/meteor';
import { createContainer } from 'meteor/react-meteor-data';

export class Login extends React.Component{
  constructor(props){
    super(props);
    this.state = {
      error: ' '
    };
  }

  onSubmit(e){
    e.preventDefault();

    let email = this.refs.email.value.trim();
    let password = this.refs.password.value.trim();

    this.props.loginWithPassword({email}, password, (err)=>{
      if(err){
        this.setState({error: 'Unable to login. Check email and password'});
      }else{
        this.setState({error: ''});
      }
    })
  }
}
```

```

    })
  }
  render(){
    return (
      <div className = "boxed-view">
        <div className = "boxed-view__box">
          <h1>Login</h1>

          {this.state.error ? <p>{this.state.error}</p>: undefined}

          <form onSubmit={this.onSubmit.bind(this)} noValidate className="boxed-view__
form">
            <input type="email" ref="email" name="email" placeholder="Email"/>
            <input type="password" ref="password" name="password"
placeholder="Password"/>
            <button className="button">Login</button>
          </form>

          <Link to="/signup">Need an account?</Link>
        </div>
      </div>
    );
  }
}
export default createContainer(()=>{
  return {
    loginWithPassword : Meteor.loginWithPassword
  }
}, Login);

```

- now lets setup the propTypes

```

Login.propTypes = {

```

```

    loginWithPassword: React.PropTypes.func.isRequired
  }

export default createContainer(()=>{
  return {
    loginWithPassword : Meteor.loginWithPassword

  }
}, Login);

```

- now check the browser to see if its' working-login and logout
- now lets setup the test cases for Login
- over in the terminal lets quit, and start our test

```
joses-MacBook-Pro:notes mendoza$ npm test
```

- **over in imports/ui create a new file called Login.test.js**
- **copy and paste the same import from PrivateHeader.test.js**

```

import { Meteor } from 'meteor/meteor';
import React from 'react';
import expect from 'expect';
import { mount } from 'enzyme';

```

- now over in Login.test.js lets do you an if statement to chekc if we are in the client side

```

import { Meteor } from 'meteor/meteor';
import React from 'react';
import expect from 'expect';
import { mount } from 'enzyme';

if(Meteor.isClient){

}

```

- **and in that block we are going to have a describe block**

```
if(Meteor.isClient){
```

```
describe('Login', function(){

  });

}
```

- the first test case we are going to write is one that makes sure that setting the error state on the Login component actually works correctly

```
if(Meteor.isClient){

  describe('Login', function(){

    it('should show error messages', function(){

      });

    });

  });

}
```

- the first thing we need to do is to define an error message that we going to use through out our test case

```
if(Meteor.isClient){

  describe('Login', function(){

    it('should show error messages', function(){

      const error = 'this is not working';

    });

  });

}
```

- next is render Login, we gotta make sure it sets it state and make sure its working, so we need an instance of the Login component

```
if(Meteor.isClient){

  describe('Login', function(){

    it('should show error messages', function(){

      const error = 'this is not working';

      const wrapper = mount();

    });

  });

}
```

```
});  
  
}
```

- lets now import the Login component above

```
import { Meteor } from 'meteor/meteor';  
import React from 'react';  
import expect from 'expect';  
import { mount } from 'enzyme';  
  
import { Login } from './Login'  
  
if(Meteor.isClient){  
  describe('Login', function(){  
    it('should show error messages', function(){  
      const error = 'this is not working';  
      const wrapper = mount();  
    });  
  });  
}
```

- inside of mount we can make an instance of Login component, Login takes a prop, which is loginWithPassword and we are going to set that to an empty function

```
if(Meteor.isClient){  
  describe('Login', function(){  
    it('should show error messages', function(){  
      const error = 'this is not working';  
      const wrapper = mount(<Login loginWithPassword={()=>{}}/>);  
    });  
  });  
}
```

- now we need to set a state to that component. setState take one argument, an object



```

if(Meteor.isClient){
  describe('Login', function(){
    it('should show error messages', function(){
      const error = 'this is not working';

      const wrapper = mount(<Login loginWithPassword={()=>{}}/>);

      wrapper.setState({});

    });
  });
}

```

- and we want to set the error state so its going to be error: error, because we are setting it it the const error up above, but we are going to use es6 shorthand for this one

```

if(Meteor.isClient){
  describe('Login', function(){
    it('should show error messages', function(){
      const error = 'this is not working';

      const wrapper = mount(<Login loginWithPassword={()=>{}}/>);

      wrapper.setState({ error });

    });
  });
}

```

- now we are going to write our assertion
- first we are going to select wrapper p tags, then get the text value
- then expect() to be equal to error, the variable above

```

import { Meteor } from 'meteor/meteor';
import React from 'react';
import expect from 'expect';
import { mount } from 'enzyme';

```

```

import { Login } from './Login'

if(Meteor.isClient){
  describe('Login', function(){
    it('should show error messages', function(){
      const error = 'this is not working';
      const wrapper = mount(<Login loginWithPassword={()=>{}}/>);

      wrapper.setState({ error });

      const p = wrapper.find('p').text();
      expect(p).toBe(error);
    });
  });
}

```

- next is clear this state, and make sure there is no paragraph tag, we are going to setState one more time

```

if(Meteor.isClient){
  describe('Login', function(){
    it('should show error messages', function(){
      const error = 'this is not working';
      const wrapper = mount(<Login loginWithPassword={()=>{}}/>);

      wrapper.setState({ error });

      const p = wrapper.find('p').text();
      expect(p).toBe(error);

      wrapper.setState({ error: ''});
    });
  });
}

```

- now we are going to assert, and we want to check there are no p tags

```

import { Meteor } from 'meteor/meteor';

import React from 'react';

import expect from 'expect';

import { mount } from 'enzyme';

import { Login } from './Login'

if(Meteor.isClient){
  describe('Login', function(){
    it('should show error messages', function(){
      const error = 'this is not working';

      const wrapper = mount(<Login loginWithPassword={()=>{}}/>);

      wrapper.setState({ error });

      const p = wrapper.find('p').text();

      expect(p).toBe(error);

      wrapper.setState({ error: ''});

      expect( wrapper.find('p').length).toBe(0);
    });
  });
}

```

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