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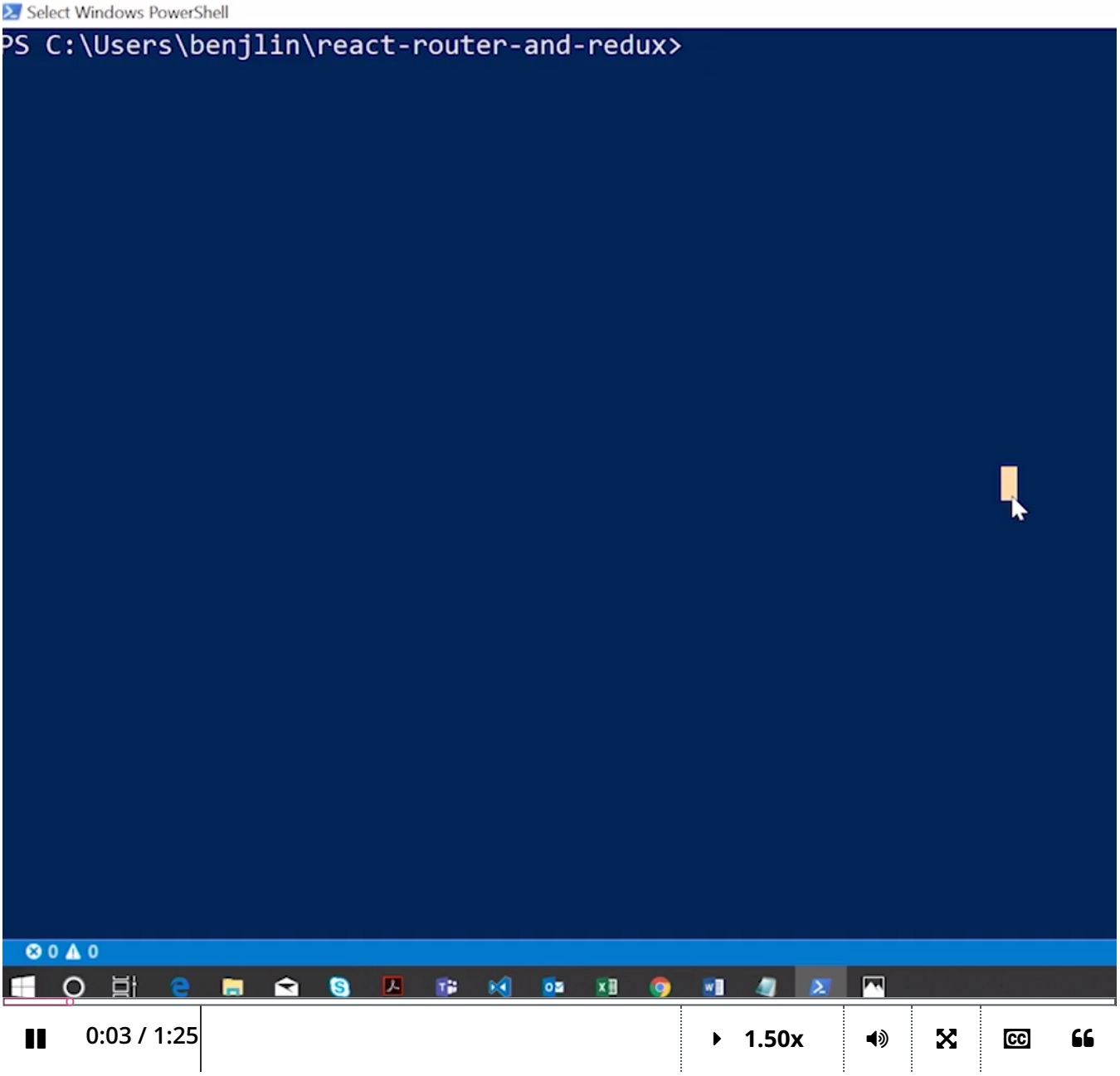
Setting up React Redux locally



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If you haven't already done so, install `create-react-app` and then create a new React project:

```
npm install -g create-react-app
create-react-app project-name
cd project-name
```

React Redux does not come installed with React, so we must install the `react-redux` library along with the core `redux` library with the following command:

```
npm install 'redux' 'react-redux'
```

After that, you can import the React Redux methods into your `app.js` file:

```
import React from 'react'
import { render } from 'react-dom'
import { createStore } from 'redux'
import { Provider, connect } from 'react-redux'
//...
```

Try copying and pasting this basic example into `app.js` to get started:

```
import React from "react";
import ReactDOM from "react-dom";
import { createStore, combineReducers } from "redux";
import { Provider, connect } from "react-redux";

//action creator
const addItem = (name, price) => {
  return {
    type: "ADD_ITEM",
    item: {
      name: name,
      price: price
    }
  };
};

const deleteItem = index => {
  return {
    type: "DELETE_ITEM",
    index: index
  };
};

//reducer
const reducer = (state = [], action) => {

  switch (action.type) {
   case "ADD_ITEM":
      return [...state, action.item];
    case "DELETE_ITEM":
      return [
        ...state.slice(0, action.index),
        ...state.slice(action.index + 1)
      ];
    default:
      return state;
  }
};

//store
var store = createStore(reducer);
```

```
//presentational components
const Item = props => {
  return (
    <div>
      <div>
        Item : {props.name} | Price: {props.price}
      </div>
      <button onClick={() => props.onDelete(props.index)}>Delete</bu
    </div>
  );
};

class Input extends React.Component {
  constructor(props) {
    super(props);
    this.state = { name: "", price: "" };
  }
  handleChangeName(event) {
    this.setState({ name: event.target.value });
  }
  handleChangePrice(event) {
    this.setState({ price: event.target.value });
  }
  addItem(){
    this.props.onAdd(this.state.name, this.state.price)
    this.setState({ name: "", price: "" })
  }
  render() {
    return (
      <div>
        <input
          onChange={this.handleChangeName.bind(this)}
          value={this.state.name}
        />
        <input
          onChange={this.handleChangePrice.bind(this)}
          value={this.state.price}
        />
        <button
          onClick={() => this.addItem()}>
```

```
          Add
        </button>
      </div>
    );
  }
}

const ItemsList = props => {
  return (
    <div>
      <Input onAdd={props.onAdd} />
      {props.items.map((item, index) => {
        return (
          <Item
            onDelete={props.onDelete}
            index={index}
            name={item.name}
            price={item.price}
          />
        );
      })}
    </div>
  );
};

const mapStateToProps = state => {
  return {
    items: state
  };
};

const mapDispatchToProps = dispatch => {
  return {
    onAdd: (name, price) => {
      console.log(dispatch(addItem(name, price)));
      console.log(store.getState());
    },
    onDelete: id => {
      console.log(dispatch(deleteItem(id)));
    }
  };
};
```

```
//container components
const ItemsListContainer = connect(mapStateToProps, mapDispatchToPro
  ItemsList
);

const App = () => {
  return (
    <Provider store = {store}>
      <div>
        <ItemsListContainer />
      </div>
    </Provider>
  );
}



export default App;
```