

Week 16: Research

2. Choose 3 React Bootstrap components and describe how they are used. You can use code examples.

1.

```
function FunctionalComponent() {
  return (
    // this component is returning 2 instances of 'class Person' within a 'div' section
    of HTML
    <div className="App">
      <Person name='Tom' age='32' />
      <Person name='Sally' age='34' />
    </div>
  );
}

// defining a variable to take in 'props' as the parameter/argument
const Person = (props) => {
  // destructing 'props' to accept 2 params (name + age)
  const {name, age} = props;
  return (
    // then return 2 headings - first with the 'name' + second with person's age
    <div>
      <h1>{name}</h1>
      <h2>Person Age: {age}</h2>
    </div>
  );
};
```

2.

```
// the 'RefactorApp' component is rendering the 'HousesList'
class RefactorApp extends Component {
  render() {
    return (
      <div>
        <HousesList />
      </div>
    )
  }
}

export default RefactorApp;
```

3.

```
export default class House extends React.Component {
  render() {
    // to create rooms - mapping through each rooms along with indexes
    const rooms = this.props.data.rooms
    ? this.props.data.rooms.map((room, index) =>
      // creating a list element + assigning 'key' to equal 'indexes'
      <li key={index}>
```

```

        {room.name} Area: {room.area}
        { /* button to delete upon user clicking */ }
        <button onClick={e =>
            this.props.deleteRoom(e, this.props.data, room)
        }>Delete</button>
    </li>)
    : null;
    return (
        <div>
            { /* to show the name ('data' is the house) */ }
            <h1>{this.props.data.name}</h1>
            <ul>
                {rooms}
            </ul>
            { /* child component with props */ }
            <NewRoomForm
                addNewRoom={this.props.addNewRoom} data={this.props.data} />
        </div>
    );
}
}

```

3. What is your favorite thing you learned this week?

- I would say using the Router to be able to create a 'SPA' (single page application). I understand the benefits of compartmentalizing (i.e. components) for better organization and issue tracking (just like it is recommended to not use 'inline' codes often / too much), however, the fact that there is an option to be able to create an application within a single page, is neat and awesome. If it is organized and error free, the idea that a single page of code can create a whole application is really cool in my opinion.