Springboard Springboard

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Solution

**Recommended Structure** 

Download dog pictures

when you're at that route.

The routes should look like this:

**React Router Patterns** 

Part 1: React Router Dog Finder

• /dogs is the homepage and shows all three dogs

You can preload the <App/> component with the following defaultProps for convenience:

Build an app that routes to different dogs and displays information on that dog

• Clicking on a dog from the homepage takes you to that dog's route. For

example, clicking on Whiskey will take you to /dogs/whiskey.

• every other endpoint not listed should redirect you to /dogs.

```
App.defaultProps = {
dogs: [
    name: "Whiskey",
    src: whiskey,
      "Whiskey loves eating popcorn.",
      "Whiskey is a terrible guard dog.",
      "Whiskey wants to cuddle with you!"
    src: duke,
      "Duke believes that ball is life.",
      "Duke likes snow.",
      "Duke enjoys pawing other dogs."
    name: "Perry",
    age: 4,
    src: perry,
    facts: [
      "Perry loves all humans.",
      "Perry demolishes all snacks.",
      "Perry hates the rain."
    name: "Tubby",
    age: 4,
    src: tubby,
    facts: [
     "Tubby is really stupid.",
     "Tubby does not like walks.",
      "Angelina used to hate Tubby, but claims not to anymore."
```

The <*App* /> should render:

- a < Nav /> component with the dogs' names passed as props
- a < Switch > with your < Route / > declarations

Here is an Example Snippet from the render method of <*App/>* To Get You Started:

```
return (
<Switch>
 <Route exact path="/dogs" >
   <DogList /> // what props will this need?
 </Route>
  <Route path="/dogs/:name" >
   <DogDetails /> // what props will this need?
 </Route>
  <Redirect to="/dogs" />
</Switch>
```

In this example:

- < DogList /> takes all the dog info from the props of < App />
- < DogDetails /> shows all of the info about a single dog
- In < DogDetails />, how will you derive the current dog, e.g. whiskey?
- Bonus: is there a way to get the current dog before you render the component, passing *dog* instead of the entire list of dog data?

### Part 2: React Router Color Factory

The goal of this exercise will be to use React Router to build an app that lets you view colors and add new colors.

### **User Stories**

- 1. As a user, I can go to /colors to see a list of all available colors.
- 2. As a user, I can click on one of the colors in my colors list and get taken to a page where I can see that color in all its glory.

(The route here should be /colors/:color)

3. As a user, I can click on a button to show a form that will let me add a new color.

Note that you can give an *input* a type of *color* if you're trying to select a color. (The route here should be /colors/new)

- 4. As a user, when I submit my new color form, I am redirected to the colors index, and my new color appears at the top.
- 5. As a user, if I try to navigate to a color page that does not exist (eg, /colors/blargh), I am redirected to the colors index page.
- 6. As a user, if I try to navigate to an invalid url (eg, /this-is-not-valid), I am redirected to the colors index page.

Here's an idea of what your app could look like:



# **Further Study**

- 1. Write tests for these applications!
- 2. Persist your colors data in *localStorage*. (You should use useEffect for this).
- 3. Add nice styling to your apps.

# Further Study: React Router Calculator

It's time to build another routing-based calculator, but this time with React Router!

Build a calculator that supports routes like:

/add/1/2

should render a component that displays 3.

/subtract/3/2

should render a component that displays 1.

/multiply/6/4

should render a component that displays 24.

/divide/20/5

should render a component that displays 4.

As a bonus, try to do this without using a different component for each of the four math operations!

Good luck!

# Solution

View our Solution