Susanna Kline Technical Writing Portfolio

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VA Forms Library — Using form widgets and fields (2022)

Document type

This is a reference document.

Audience

Software developers within Veteran's Affairs who have a basic understanding of the Forms Library and its schema and uiSchema.

Goals

Based on user research, I chose to prioritize the following items:

- · Clearly document how to use each widget
- Show a screen shot or video of each widget when possible, supported by high quality alt text for screen captures and videos
- Show a code example of each
- Link to an example in the VA code base

Given that the document would be published on the platform website, with a navigable table of contents on the right side, and it is intended as a reference document, we decided as a team that we would display this in one document.

VA Forms Library - Using Form Widgets and Fields (Link to document)

Thinking in React: Reusing components (2022)

Document type

This is a tutorial.

Audience

Software developers with an understanding of JavaScript and JSX, who can create a simple React App, and who can run the app locally. They may be trying to understand the higher-level concepts of React.

Goals

To teach the high-level concept of reusable components and to implement a basic, reusable component in React. It also inspires participants with ideas for exploring and creating other reusable components in the future.

Thinking in React: Reusing components

Prerequisites:

- You know basic JavaScript and JSX
- You can create a simple React App
- You can run the React app on localhost:3000

Today, we're working on creating an app for our customer, DeliciousDonuts. They want their website to show a menu of current donuts on the front page. Right now, the list includes nine donuts, but this may change later.

For each donut, they want to show these items:

- donut name
- photo
- price
- ingredients
- "Add to Cart" button

For now, we'll think about this app at a high level and work with only minimal formatting to focus on understanding the functionality. In a later lesson, we'll add CSS to make things look good for the customer.

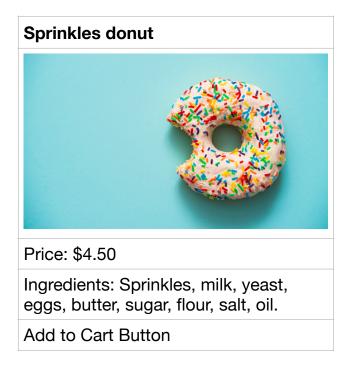
Once you've created and started your React app, we'll start working in a simple App. js file and create a header, DeliciousDonuts.

App.js import './App.css'; 3 function App() { 4 return (5 <div style={{textAlign: 'center'}}> 6 <header> 7 DeliciousDonuts 8 </header> 9 </div> 10); 11 } 12 13 export default App;

If you've read through the React docs, you may know conceptually that a big part of the reason for using React is to break your app into reusable components. This means that you can reuse code in multiple places without having to rewrite it. But what does this mean in practice?

At first, identifying places to use reusable components may not be obvious. It helps to see them in a real app. Let's look at DeliciousDonuts: We need a page that displays nine of the same thing, with a donut name, photo, price, ingredients, and a button.

At a high level, we know we need nine of something that looks like this to show up on our app page:



If we need more than one of anything, it's a good place to think about writing a reusable component. But you might be wondering, if each one has a different name, photo, price, and ingredients, how will we reuse the code? That's a great question.

We're going to create a Donut component with the basic structure, but it will have variables that we can replace when we use the component. In React, these variables are called properties, or for short, props.

Let's make a new, reusable Donut.js file that we can use nine times in our app file. It may not seem like a lot of code to save right now—we could just copy and paste it—but imagine DeliciousDonuts expanded into a franchise, and each store sold different donuts. We wouldn't want to create new code for hundreds of donuts!

For now, we'll create this file and put in placeholders for everything but the button, and we'll swap them out for the props.

Donut.js

```
1 import './App.css';
3 function Donut() {
4
   return (
5
     <div style={{border: '1px solid black', margin: '4px'}}>
6
        Name
7
        Photo
8
        Price:
9
        Ingredients:
10
     </div>
11 );
12 }
13
14 export default Donut;
```

To make this work, we have to import the Donut file back to the App. js file (line 2) and insert the component (line 10) below the header:

App.js 1 import './App.css'; 2 import Donut from './Donut.js'; 4 function App() { 5 return (<div style={{textAlign: 'center'}}> 6 7 <header> 8 DeliciousDonuts 9 </header> 10 <Donut /> </div> 11 12); 13 } 14 15 export default App;

Currently our app looks very simple and shows only our App file and our child component, rendered one time.

DeliciousDonuts

```
Name
Photo
Price:
Ingredients:
```

We can render it as many times as we want to repeat it in our app.

```
App.js
   import './App.css';
  import Donut from './Donut.js';
3
4
  function App() {
5
   return (
6
     <div style={{textAlign: 'center'}}>
7
        <header>
8
          DeliciousDonuts
9
        </header>
        <Donut />
10
11
        <Donut />
12
        <Donut />
13
     </div>
14
    );
15 }
16
17
   export default App;
```

This is what it looks like when we render the Donut component three times:

DeliciousDonuts

```
Name
Photo
Price:
Ingredients:

Name
Photo
Price:
Ingredients:

Name
Photo
Price:
Ingredients:
```

For now, let's delete those extra two Donut components and add the donut's name property, so that we can list a different donut name every time we render the card.

In the Donut . j s file, add a property that we can use to pass the donut name in from the app file each time we call our Donut component so it will be unique to each donut. First, in the function (line 3), we add a variable called "donutName."

Then we'll replace Name (line 6) with {donutName}. As a reminder, we need curly braces to tell React that we're using JSX here instead of html.

Donut.js

```
import './App.css';
3
  function Donut({donutName}) {
4
    return (
5
      <div style={{border: '1px solid black', margin: '4px'}}>
6
          {donutName}
7
          Photo
8
          Price:
9
          Ingredients:
10
      </div>
11
    );
12 }
13
14 export default Donut;
```

Now that we've created a way to insert a Donut name, let's return to our App.js file and insert it.

Instead of <Donut /> (line 10), now we want to add a prop called donutName.

App.js

```
10 <Donut
11 donutName="Maple Bacon"
12 />
```

When you save both files, your React app should look like this.

DeliciousDonuts

```
Maple Bacon
Photo
Price:
Ingredients:
```

If we want to add more donuts, repeat the Donut component you call in the App file. You can add it as many times as you'd like to add it, each with a different name prop:

```
App.js
```

```
import './App.css';
  import Donut from './Donut.js';
3
4
  function App() {
5
     return (
6
       <div style={{textAlign: 'center'}}>
7
         <header>
8
           DeliciousDonuts
9
         </header>
10
         <Donut
           donutName="Maple Bacon"
11
12
         />
13
         <Donut
           donutName="Lavender"
14
15
         />
16
         <Donut
17
           donutName="Lemon-Blueberry"
18
         />
       </div>
19
20
     );
21 }
22
23 export default App;
```

The corresponding app screen with the Donut components looks like this:

DeliciousDonuts
Maple Bacon
Photo
Price:
Ingredients:
Lavender
Photo
Price:
Ingredients:
Lemon-Blueberry
Photo
Price:
Ingredients:

Now you can insert as many properties into the donut card as you'd like following the same pattern.

On your own, try adding the photo, price, and ingredients properties. Then consider other parts of this app or others you've worked in where you can create reusable components, like buttons, menu items, or form fields.

If we zoom out, we can think about the DeliciousDonuts reusable component concept as a repeated card on a page, and realize that this format applies to many other different kinds of apps: E-commerce, articles or blog posts, photos, book finders, and many others that use a card-like format.

Obviously, the idea of reusable components has immense potential for saving time and allowing you to build more powerful and flexible apps. In the next lesson, we'll implement some other reusable components, including the "Add to Cart" button for our customer, DeliciousDonuts.

VA Platform Console — Plugin overview (2022)

Document type

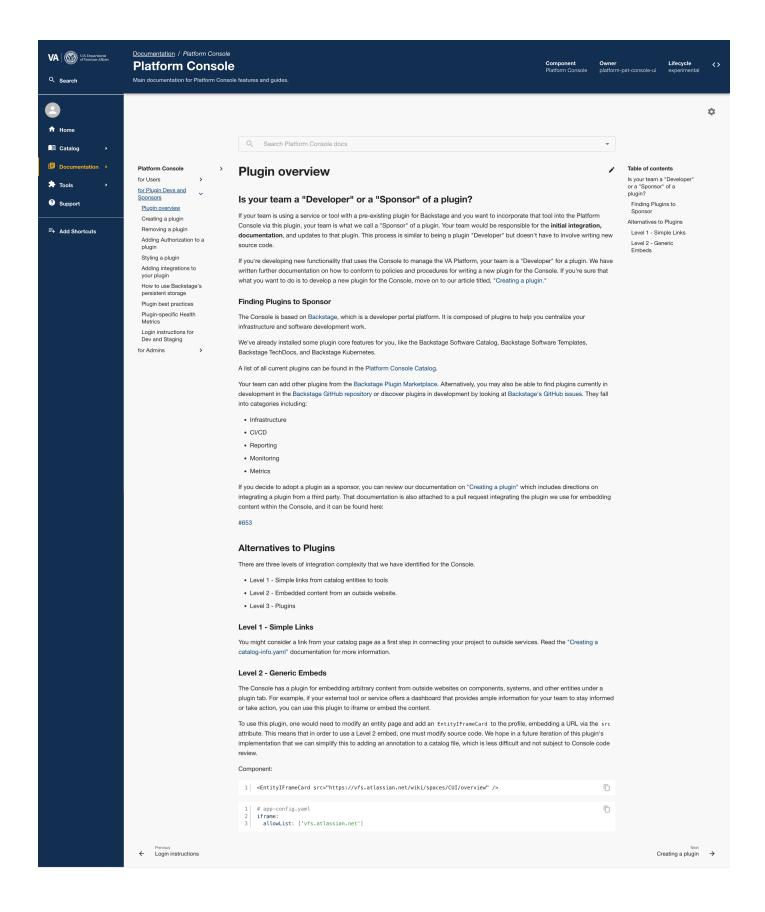
This is a technical overview document of a <u>backstage.io</u> feature.

Audience

Software developers within Veteran's Affairs who have a basic understanding of the Console and would like to use.

Goals

To orient Console developers to the idea of plugins, their purpose, and how to sponsor them, as well as to giving developers alternatives to sponsoring plugins.



VA Platform Console — Adding integrations to your plugin (2022)

Document type

This is an API integration document.

Audience

Software developers within Veteran's Affairs who have a basic understanding of the Console and would like read or write data to providers outside the console.

Goals

To orient Console developers to plugin integrations and instruct them on how to integrate with APIs.

