Creating a Library of React Components using Create React App

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	shns					
Aakash						
UPDATE : You can use the npm package create-component-lib to automate all the steps described in this blog post.						
create-component	:-lib					
		ool for creating and developing hed to npm and used in other F				create

1. Create a new project using create-react-app:

```
create-react-app simple-component-library
```

2. Delete all the files inside src/, and create a new index.js file with some starter code:

```
import React from "react";
import ReactDOM from "react-dom";

ReactDOM.render(<div>Hello world</div>, document.getElementById("root"));
```

3. Create a new folder src/lib and place your React components inside it. src/lib will serve as the root folder of the module published to r
code for an example component:

Styling can be done inline, or in separate CSS files:

```
.simple-form-group {
  margin-bottom: 1rem;
}
.simple-text-label {
  display: block;
  color: red:
```

```
}
.simple-text-input {
  display: inline-block;
  margin-bottom: 0.5rem;
  font-size: 16px;
  font-weight: 400;
  color: rgb(33, 37, 41);
}
```

Finally, the component can be exported from src/lib for ease of importing:

```
import TextInput from "./TextInput";
export { TextInput };
```

Optionally, you can also write tests for the components inside src/lib:

4. (Optional) Use the components in src/index.js to create examples for testing and debugging during development. Any code placed outs not be published to npm. Here is an example usage of TextInput:

```
import React from 'react';
import { render } from "react-dom";
import { TextInput } from "./lib";

const App = () => (
    <div style={{ width: 640, margin: "15px auto" }}
    <h1>Hello React</h1>
    <TextInput label="Email Address" placeholder="name@example.com" />
```

```
</div>
);
render(<App />, document.getElementById("root"));
```

Run npm start and navigate to http://localhost:3000 to view the result.

It works (duh!)

Tip: Use react-live to create a live-editable documentation site!

5. Install babel-cli using the command npm i babel-cli --save-dev and create a file .babelrc in the root of the project with the following con















Creating a Library of React Components using Create React App by @aakashns





"presets": [["react-app", { "absoluteRuntime": false }]]
}

6. Replace the build script inside package.json with the following:

```
"build": "rm -rf dist && NODE_ENV=production babel src/lib --out-dir dist --copy-files --ignore __tests__,spec.js,test.js,__snapshots__
```

The command npm run build will now transpile the code inside src/lib (ignoring tests and snapshots) into the folder dist.

- 7. Remove the line "private": true from package.json. Also remove react-scripts, react and react-dom from dependencies, and move ther devDependencies. Additionally, you can also add react and react-dom to peerDependencies.
- 8. To prepare for publishing, add the following lines to package.json:



```
"main": "dist/index.js",
  "module": "dist/index.js",
  "files": [ "dist", "README.md" ],
  "repository": {
    "type": "git",
    "url": "URL_OF_YOUR_REPOSITORY"
}
```

9. Remove the default README.md file, and create a new one with some information about the library.

```
# simple-component-library
A library of React components created using `create-react-app`.## Installation
Run the following command:
`npm install simple-component-library`
```

10. Publish to npm!

```
npm run publish
```

And that's it! Now you can install the library with the command <code>npm install simple-component-library</code> and use it in any project created using <code>Capp</code>. Here's the full code for this article:

You can clone the repository and use it as a starting point to skip some of the steps. Hope it helps!





by Aakash N S @aakashns.

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