

## Project 7

# React Gallery App

### Exceeds Expectations

Your project was reviewed and looks great! Take a look over your grade details to see how you can improve.

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## Project Overview

For this project, you'll use the very popular and in-demand React library to create an image gallery app. With the help of this powerful "MVC" (Model, View, Controller) library, the app will be built in the style of modern single-page applications to keep it fast, modular, and in sync with current web development trends.

You'll learn about some of the best practices of working with React, like using JSX to write markup-like syntax directly in your JS files and managing state in a container component that passes data down to reusable stateless components. Additionally, you'll get practice working with React supportive tools like the Create React App and React Router modules.

Using the powerful Create React App tool, you'll set up the initial project.

Then you will:

- Use JavaScript and JSX to build out the gallery components in a modular fashion.
- Use React Router to set up routes for three default topic pages and a search page.
- Use the Fetch API or a tool like Axios to fetch data from the Flickr API and use it to display images in your app.
- Add logic to handle the search and various requirements of the project.
- Add to the supplied CSS to personalize the project.
- React has a bit of a learning curve and can feel difficult to work with at first, but with hard work, time and practice, it can be mastered by anyone.

After building this project, you'll be able to start using React in all of your projects to demonstrate your skills with the powerful library to potential employers, which will make you a hot commodity in today's web development world. So really take your time, do a great job, and give this one your all.

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### Before you start

To prepare for this project you'll need to make sure you complete and understand these steps.

#### [4 steps](#)

- Review the policy on [Reusing Code in a Techdegree project](#).
- **GitHub**

- Create a new repo for this project.
- Create a `.gitignore` file and use it to make sure your `node_modules` folder and the `config` file you'll create for this project are not stored in or tracked by your repo.
- The Create React App tool will generate a `README.md` file for you with all of the React-related readme info. But you should add to the top of this README any and all info to explain what your project is and anything your user or fellow developers might need to know to use the project, like the format of your `config` file and where in the directory it should be stored.

- **Understand what you are working with**

- Have a basic understanding of React, JSX, Create React App, React Router, and working with APIs. See the Resources links on this page and the material in this unit for more help understanding these concepts.

## Download the project files

- `index.html` - this file will help give you an idea of how each page should be structured and what React components you will need to create with JS and JSX.
- `css/index.css` - this file will provide all the styles you will need for this project, but you are encouraged to experiment with things like color, background color, font, shadows, transitions, and animations.
- `No-Results-Layout.png` and `Results-Layout.png` - these mockups will serve as a general guide for the layout and position of the elements in this project.

- **Follow the Instructions Below**

- Be sure to reach out on Slack if you get stuck or run into difficulties.
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## [Download files](#)

Zip file

## Project Resources

[Workshop](#)

[Create Apps with No Configuration \(create-react-app\)](#)

[External Link](#)

[React Router](#)

[Workshop](#)

[Data Fetching in React](#)

[External Link](#)

[flickr.photos.search – Endpoint](#)

[External Link](#)

[flickr.photos.search – API Explorer](#)

[External Link](#)

[Photo Source URLs – Flickr API](#)

<https://www.npmjs.com/package/prop-types>

[prop-types npm package](#)

## **Need Help?**

Have questions about this project? Start a discussion with the community and Treehouse staff.

[Get Help on Slack](#)