

## Case Study: React Image Gallery

Solo Sprint Project | Prime Digital Academy | November 2024

Client: Self-Directed Educational Project

### Summary

The photographic content of this solo sprint project was inspired by my interest in gardening and observing nature. I wanted a creative and functional way to document and share my photography while exploring interactive UI design. I envisioned a tool that could serve as a gallery, a learning resource, with a tracking interface adaptable to many use cases.

### Role & Responsibilities

In 48 hours, I designed and coded a complete front-end React app integrated with an Express API. The layout uses a reversible card concept that makes the content engaging. This design can be easily adapted to multiple purposes, from study aid to organizing personal collections or scrapbooking.

### Key Features

- Card-based gallery interface showing custom photos of flowers and insects with captions on flip sides
- Responsive layout suitable for both desktop and mobile users
- Like button adds functionality to 'complete' or favorite specific cards
- Expandable architecture allows easy conversion to flashcards, games, or study aids
- Express API and Axios handle data transactions with a backend database

### Tech Stack

React, Node.js, Express, Axios, PostgreSQL

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