**Flash Card App to Study Concepts**

**Learning objective:** Use React.js, Axios, and CSS to build a flash card app that will help students study words and definitions of various technologies.

**Technologies:** React.js, HTML, CSS, Create React App, Axios

**Estimated Time to Completion:** 4 days

**Features:**

As a developer, I want to make good, consistent commits.

As a developer, I want to create a React app using Create React App.

As a developer, I want to use an API or set up a server (pick one way to use. We recommend REST API):

* As a developer, I want to connect to the REST Web API, so I can properly use Axios to make requests with persistent data.
  + Download the API application from the following repository:
  + <https://github.com/LaGrange-Group/Study_Card_API_Package>
* As a developer, I want to create a JSON server, so I can properly use Axios to make requests with persistent data. **\*see instructions below**

As a developer, I want to use React.js best practices, which consists of creating class components and function components when appropriate, and properly passing state around as props.

As a developer, I want to use CSS appropriately to make an aesthetically pleasing application.

As a developer, I want to use Axios to make GET and POST requests to a JSON dataset to pull in and create words and definitions in my application.

As a user, I want a way to see each available collection of flash cards with its title, so that I can easily distinguish the collection of flash cards.

As a user, I want to select a collection to put in use, with the “active” collection being visibly different than the other collections.

As a user, I want to create a flash card in a collection and save to the JSON dataset, so that I have a way to see the word and definition.

As a user, I want a way to go to the next card in the collection or a previous card in the collection.

As a user, I want to see a count of how many total cards are in a collection as well as what number card is currently active in the collection.

**Bonus Features:**

As a user, I want there to be an animated transition from word to definition and vice versa when I click on a flash card.

As a user, I want to create a collection of flash cards, so that I have a container to store my newly created flash cards.

As a user, I want to give a collection of flash cards a title, so that I have a way to differentiate each collection of flash cards.

As a user, I want to edit and delete a flash card in a collection, so that I can modify and delete flash cards.

**\*JSON Server** <https://github.com/typicode/json-server>

Instructions to create JSON server:

1. Install JSON server
   1. npm install -g json-server
2. Start JSON server in location of data.json (this should be in public folder in your Create React App project)
   1. json-server --watch data.json
3. Go to <http://localhost:3000/collections> to see your data. This will be the same URL you use for Axios requests