# Social Feed

## Introduction

The goal of the Social Feed project is to become more familiar with React.js, and to develop a greater understanding of how components interact, how props allow components to pass values and functions between each other, and how multiple components can come together to create an interactive frontend application with read & write functionality.

## Technologies

React, JavaScript, React Hooks, HTML/CSS,

## Learning Objective

The learning objective of this project is to familiarize yourself with React.js best practices, and to gain a deeper understanding of components, how they are structured, and how they can interact. You will practice passing information down to a component using props, then using the “map” higher order array method to display that information in an aesthetically pleasing manner.

Additionally, implementing a form component with the ability to create new posts will provide further practice with passing values from a child to a parent component, as well as the structure and syntax for using forms in React.  
Finally, designing a “toggle” feature for the like & dislike button will challenge you to create unique event listeners, and will deepen your understanding of how state variables can be utilized to change the styling of an element.

## Resources

**PowerPoints**

* Regular Functions vs. Arrow Functions
* Intro to React.js
* Importing in React
* React Forms

**Documents**

* User Stories
* Steps to Create React App

**Relevant Projects**

Weight Tracker (React.js video tutorial project)

**Other Resources**

Social Feed final result demo video

Changing Styles on Button Click demo video

## Tasks

1. **Review all videos and documentation for this project.** Make sure you have a clear understanding of the end result of the project and all supporting documentation that is available to you.
2. **Download and review the included Social Feed wireframe & image.** This is a great layout reference as you begin to design your own React application. Remember – this is simply a reference, and you are free to structure your Social Feed however you wish!
3. **Build & test your React application** utilizing React best practices (all components organized into their own folders with external CSS stylesheets, passing data from parent to child component using props, lifting state as high as possible in component hierarchy, etc.)

## Setup Steps

*For step 3 from Tasks*.

💡 The Weight Tracker tutorial application will be an excellent reference for the Social Feed user stories – be sure to use it to your advantage!

1. Begin setting up your project using the CREATE REACT APP command. Verify that you can run your development server and load your application in your browser before proceeding!
2. Create the necessary folders and files for your React components. You can add additional components if desired, but at a minimum you will need:
   * App.jsx (parent)
   * DisplayPosts.jsx
   * Post.jsx
   * CreatePost.jsx
   * NavBar.jsx
3. Within the “Post” component create a template of how you would like each individual post to be displayed. This will include the user’s name, the body of the post, and the “like” and “dislike” buttons.
   * For now, do not worry about the functionality for the “like” and “dislike” buttons – just decide where and how you would like them to display on each individual post!
4. Within the “DisplayPosts” component, create the feed where all your posts will be displayed in your app. All posts should be passed into this component using props. Then, utilize the “map” higher order array method to map each post to its own Post component.
5. Within the “CreatePost” component create a form with 2 input fields. There should be an input field for the user’s name, as well as the body of their post, and each should be bound to its own state variable.
6. Implement a “handleSubmit” method for your form, which should pass the entered values to a function on the App.jsx component. That function should create a new “post” object, add it to the existing array of posts, and update the App.js state variable with the new array.
7. Lastly, you will need to build out the “like” and “dislike” functionality. Within the “Post” component, create 2 separate functions – one for when the “like” button is clicked, and one for when the “dislike” button is clicked. Bind these functions to their respective button’s onClick event. Within these functions, start to lay out the steps that need to occur when each button is clicked.

💡 Note: this user story may be a bit more complex than it seems on the surface! This will require some creative thinking and problem solving. Be sure to review the Changing Styles on Button Click demo video for more information about how to approach this user story!

## End Result

The end result of this project will be a styled single page application. The application will have the ability to display all created posts, create new posts, and to toggle between “liking” and “disliking” each post. Please see the recorded video on the day this project is assigned for a full demo of the completed project!