Unit 8: React: Lab 4 – Social Posts

Assigned: 02/01/23

Due: 02/02/23

Completed: TBD

**LMS:** <https://lms.grandcircus.co/mod/assign/view.php?id=22821>

**Google Doc:** <https://docs.google.com/document/d/1pgWW0lDeY2MPeIxbTmaqLH9H71k6i1Aazf0eb2__SUM/preview>

**GitHub:**

**Task:** Use components to construct a list of small posts, similar to Twitter.

**What does the application do?**

* Displays a list of posts. Each post includes a subject (title) and a body (thought).
* The new post form is initially hidden. Clicking the “New Thought” button reveals the form.
* Submitting the form adds a new post to the top of the list and hides the form.

**Build Specifications:**

* Create an **interface** called **Post** which consists of a **title** (string) and a **thought** (string). Use the interface in appropriate locations.
* Almost all the code is in three components.

1. The **SocialPosts** component is the parent component.

* It owns the list of posts.
* The other two components are referenced in this one.
* It displays multiple **PostInList** components, one for each post in the list.
* When the "New Thought" button is clicked, show the **PostForm**. When the **PostForm** is submitted, add to the list of posts and stop displaying the **PostForm**. If the **PostForm** is closed, stop displaying it.
* Add **SocialPosts** to the **App** component so that it displays on the page.

1. The **PostInList** component displays a single post in the list.
   * It has a prop named **post** that accepts a **Post** object
   * It has a callback prop named **onDelete** that takes no arguments. This is called when the trash button is clicked.
2. The **PostForm** component displays the new post form.
   * It has a callback prop named **onSubmitForm** that takes a **Post** argument. This is called when the form is submitted, and the form data is passed to it.
   * It has a callback prop named **onClose** that takes no arguments. This is called when the close icon is clicked.
   * This component includes the HTML & CSS to display as a modal. (A "modal" is a component that displays in front of the rest of the content and blocks out the rest of the site, similar to a popup but within the site.)

**Extended Challenges:**

1. Add upvoting to each post.
2. Use the [react-modal](https://www.npmjs.com/package/react-modal) library for the PostForm modal.

**Style guide:**

* Font-family: Homemade Apple, Dosis (both Google Fonts)
* Icons: Font Awesome or Material Icons
* Post title font-size: 24px
* Form width: 50%
* Colors:
  + page background: #f3f1f7  [  ]
  + title and "New Thought" button: #03a9f4  [  ]
  + form background: #79c5e8  [  ]

**Grading Criteria**

1. PostInList displays title and thought from a post prop.
2. When trash button in PostInList is clicked, the onDelete callback prop is called.
3. SocialPosts displays a list of PostInList.
4. When the trash button of one of the posts is clicked, that post is removed from the list.
5. PostForm displays an input for title and thought and a submit button.
6. When PostForm is submitted it calls the onSubmitForm callback prop, passing it a Post object with the title and thought from the form.
7. When the close button is clicked on PostForm, the onClose callback prop is called.
8. PostForm displays as a modal.
9. SocialPosts displays a PostForm when the "New Thought" button is clicked.
10. SocialPosts removes the PostForm when the form is submitted or closed.
11. SocialPosts adds the post to the list when PostForm is submitted.
12. The trash button in PostInList uses an icon from Font Awesome or Material Icons.
13. The styling matches the design including colors, centering, and approximate spacing.

Graphical user interface, application

Description automatically generated