ITPRJS

Practice Problems: Week 3

1. State the reasons why React Hooks came into existence and what problems does it solve?

2. Based on your knowledge of component lifecycles, answer the following:
   - Which lifecycle method is fired to determine if a component should be updated?
   - In which lifecycle method should you put initial API calls/Web requests?
   - Where should you put clean-up operations? (For example, you have manually registered an event listener and you need to remove it to avoid memory leaks later)
   - Suppose you want one of your components to never update, regardless of related state changes. How and which lifecycle method should you change? Show the lifecycle code.

3. Recreate the Wallet system from PP 2 (Prob #3), but now using only Functional components and React Hooks.
   NOTE: You CANNOT use any kind of class components throughout your code

4. Using React, React Hooks and React Router, create a portfolio website for you. It should contain three pages, namely, "My Works", "About" and "Contact Me". When a user visits the website, he would come to "My Works" section, which would be your default landing page. In "My Works", you will showcase several projects of your own. Each project should have a title and an image. Upon clicking on a project, the visitor will be taken to a new page showing the details of the project (how you represent details is up to you). The "About" page and "Contact Me" page is self-explanatory.

NOTE: You CANNOT use any kind of class components throughout your code. Also, students are encouraged to add some styling (for now, you should add styling in the index.css file only).

HINTS:

- You can represent your projects using an array of objects.
- To load the project description, the page needs to know which project you want to display. Routes can take extra params in the Route URL.

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