

# Assignment Questions 8

💡 Q.1 Whats React and its pros and cons?

💡 Q.2 What do you understand by Virtual Dom?

💡 Q.3 Difference between Virtual Dom vs Real Dom

💡 Q.4 Whats component? Types of component

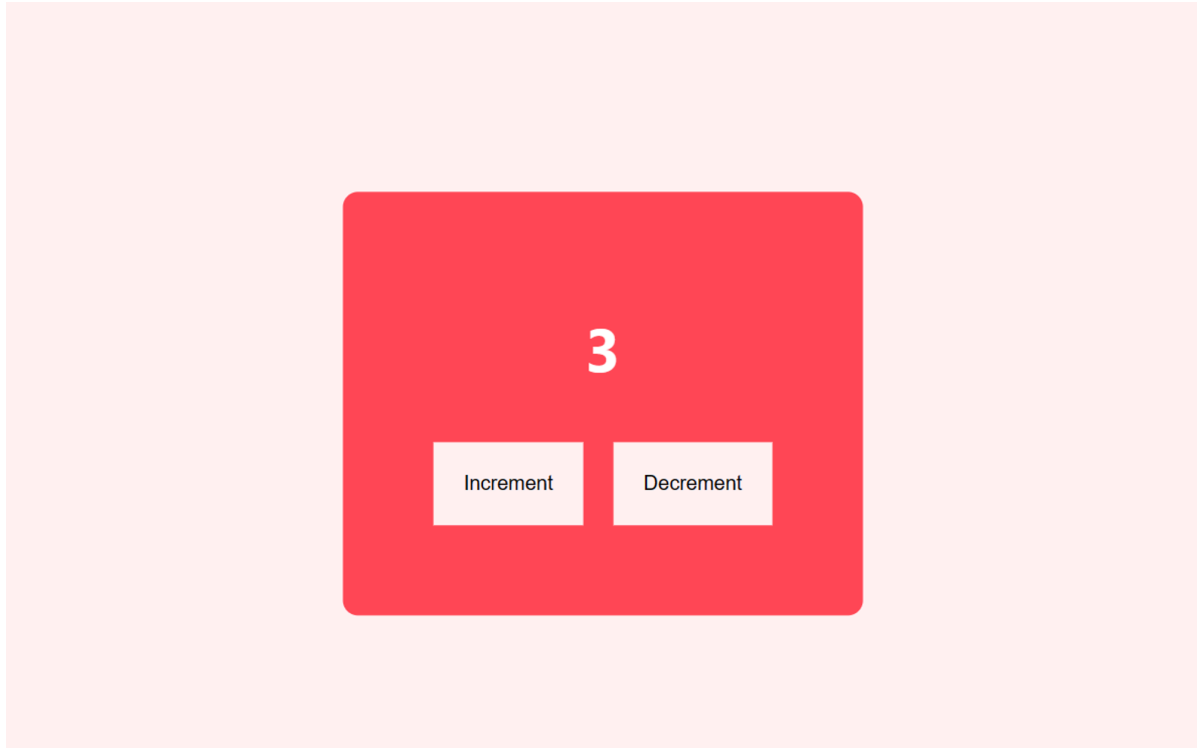
💡 Q.5 Difference between class & function based component

💡 Q.6 Explain react component life cycle

💡 Q.7 Explain Prop Drilling in React & Ways to avoid it

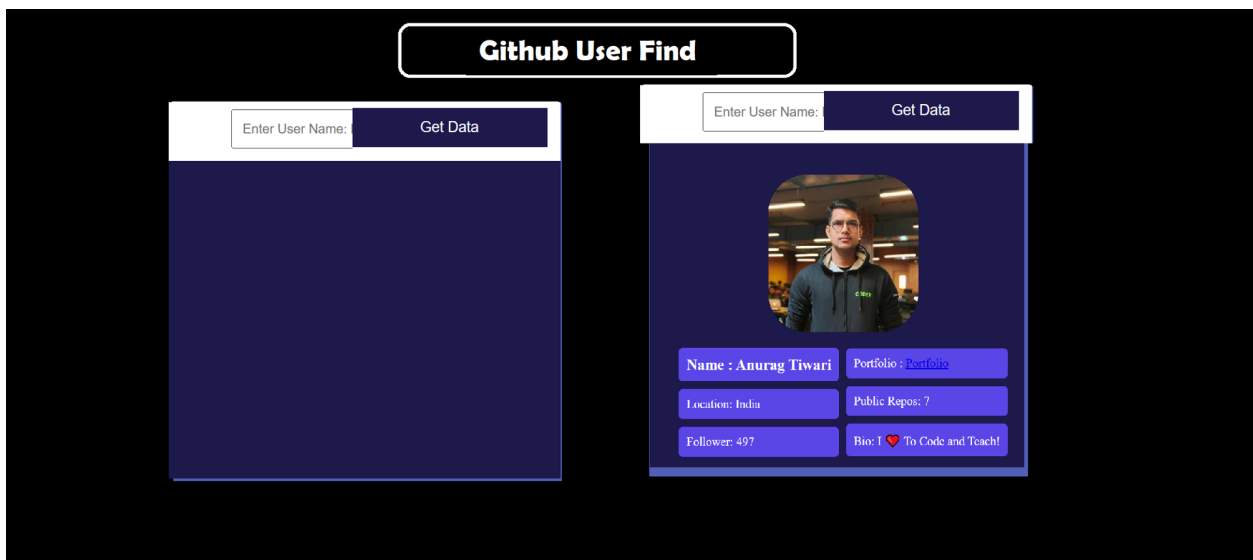
💡 Q.8 Create a Counter Web App using React

- Develop a web application using React that functions as a counter.
- Include two buttons in the UI:
  1. "Increment" button:
    - On clicking this button, the counter value should be incremented by one.
  2. "Decrement" button:
    - On clicking this button, the counter value should be decremented by one.
- Implement the counter logic using React's state management.
- Ensure that the counter value is displayed in the UI and updates in real-time when incremented or decremented.
- Use appropriate React components and hooks to manage the counter state and handle button click events.



💡 **Q.9** Develop a **GitHub User Finder** web application using **React**. The application should allow users to enter a **GitHub username** and display relevant information about the user, including their avatar and name. The design of the application should follow the layout provided in the image below.

- Use Github Api to get User Data “<https://api.github.com/users>”



💡 **Q.10** Develop a simple website using React, fetch and display products from the "<https://fakestoreapi.com/products>" API. The website should have the following features:

- Fetch product data from the "<https://fakestoreapi.com/products>" API.
- Display the products in a user-friendly UI.
- Show **Three products** in a single row for optimal visibility and layout.
- Use **React** to achieve the desired layout and functionality.
- Ensure that the UI is visually appealing and responsive.
- Implement error handling to handle any issues with API requests.
- Test the website thoroughly to ensure proper functionality and performance.
- Provide clear and concise documentation to guide users on how to interact with the website and understand its features.

**Note:** Refer to the provided image or design specification for the desired layout and styling of the product display in a single row.

