

ReactJS Practice Question Set 12

Instructions:

1. Do these questions in a React JS template editor. You can use React JS CodeSandbox or React JS REPL.
2. This set is about practicing useContext in React.
3. You can make use of methods such as .map(), .filter(), .reduce(), .length, .toLowerCase(), .toUpperCase(), .push, .includes wherever needed.
4. Do NOT use for-loops.

Questions

1. Create a React app with useContext that stores the user's information (name, email, and role). Create a UserProfile component that displays the user's name and email obtained from the useContext using useContext. On change of the user name from the dropdown show the relevant name and email as shown in the screenshot below.

```
const users = [  
  {  
    id: 1,  
    name: 'Tanay Pratap',  
    email: 'tanay@example.com',  
    role: 'Super Mentor',  
  },  
  {  
    id: 2,  
    name: 'Tanvi Priya',  
    email: 'tanvi@example.com',  
    role: 'CEO',  
  },  
  {  
    id: 3,  
    name: 'Akanksha Choudhary',  
    email: 'akanksha@example.com',  
    role: 'Super Mentor',  
  },  
]
```

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User Profile

Select any user from the dropdown

Users:

Name: Tanay Pratap

Email: tanay@example.com

User Profile

Select any user from the dropdown

Users:

Name: Tanvi Priya

Email: tanvi@example.com

2. Create a React app with LanguageContext that stores the current language. Implement a Translate component that receives a key and displays the corresponding translation based on the language provided by the LanguageContext using useContext.

```
const translations = {
  en: {
    hello:
      "Hello! I hope you're having a great day filled with joy and happiness. Hello and w
    goodbye:
      "Goodbye! I hope we'll see each other again soon. May your day be filled with happi
  },
  es: {
    hello:
      '¡Hola! Espero que estés teniendo un excelente día lleno de alegría y felicidad. ¡H
    goodbye:
      '¡Adiós! Espero que nos volvamos a ver pronto. Que tu día esté lleno de felicidad y
  },
  fr: {
    hello:
      "Salut! J'espère que tu passes une excellente journée remplie de joie et de bonheur
    goodbye:
      "Au revoir! J'espère que nous nous reverrons bientôt. Que ta journée soit remplie d
  },
}
```

¡Hola! Espero que estés teniendo un excelente día lleno de alegría y felicidad. ¡Hola y bienvenido/a a ti!

¡Adiós! Espero que nos volvamos a ver pronto. Que tu día esté lleno de felicidad y éxito. ¡Adiós y hasta la próxima!

Hello! I hope you're having a great day filled with joy and happiness. Hello and welcome to you!

Goodbye! I hope we'll see each other again soon. May your day be filled with happiness and success. Goodbye and until next time!

3. Create a React app with ThemeSwitcher component that allows the user to toggle between light and dark themes. Use the useContext hook to obtain the current theme from a ThemeContext and update it when the user switches between themes on click of the button.

Theme Switcher

Current Theme: light

Change Theme!

Theme Switcher

Current Theme: dark

Change Theme!

4. Create a React app with CartTotalContext that stores the total price of items in the shopping cart. Implement a CartSummary component that displays the cart total obtained from the CartTotalContext using useContext. You can display the available cart items on the same page along with buttons to add or remove items from cart.

```
const items = [  
  { id: 1, name: 'Item 1', price: 10 },  
  { id: 2, name: 'Item 2', price: 20 },  
  { id: 3, name: 'Item 3', price: 30 },  
]
```

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Shopping Cart Summary

Cart Total: \$0.00

No items in the cart.

Available Items

- Item 1 - \$10 Add to Cart
- Item 2 - \$20 Add to Cart
- Item 3 - \$30 Add to Cart

Shopping Cart Summary

Cart Total: \$60.00

- Item 1 - \$10 (Quantity: 1) Remove
- Item 2 - \$20 (Quantity: 1) Remove
- Item 3 - \$30 (Quantity: 1) Remove

Available Items

- Item 1 - \$10 Add to Cart
- Item 2 - \$20 Add to Cart
- Item 3 - \$30 Add to Cart

Shopping Cart Summary

Cart Total: \$80.00

- Item 1 - \$10 (Quantity: 5) Remove
- Item 3 - \$30 (Quantity: 1) Remove

Available Items

- Item 1 - \$10 Add to Cart
- Item 2 - \$20 Add to Cart
- Item 3 - \$30 Add to Cart

5. Create a React app with 3 pages using React Router. Create `UserPreferencesContext` that stores the user's preferences, such as font size and color scheme. Implement

a PreferencesForm component with dropdown that allows the user to customize their preferences using the UserPreferencesContext and useContext. On changing the preferences, the changes should apply to the Profile and Notes page.

[Profile](#) || [Notes](#) || [Settings](#)

Preferences Form

Font Size: Color Scheme:

[Profile](#) || [Notes](#) || [Settings](#)

Profile

Name: Tanay Pratap

Role: Super Mentor

[Profile](#) || [Notes](#) || [Settings](#)

Preferences Form

Font Size: Color Scheme:

[Profile](#) || [Notes](#) || [Settings](#)

Notes:

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Repellat quia esse nihil voluptatem. Tempore, laborum? Numquam qui, minima sit sed iste eos corrupti debitis, suscipit, ad molestias repellat doloribus! Commodi.

[Profile](#) || [Notes](#) || [Settings](#)

Preferences Form

Font Size: Color Scheme: