Assignment- 04-02-2026

Name: Syed Ahmed Hussain Ulvaan

Ht.NO: 2303A51949

Batch: 07

Theme Toggle Application (React State + Props)

```
● (base) ulvaansyed@Ulvaans-MacBook-Air devops&fullstack % npm create vite@latest theme-toggle-app -- --template react

> npx
> "create-vite" theme-toggle-app --template react

◇ Target directory "theme-toggle-app" is not empty. Please choose how to proceed:
    Remove existing files and continue

◇ Use rolldown-vite (Experimental)?:
    Yes

◇ Install with npm and start now?
    Yes

◇ Scaffolding project in /Users/ulvaansyed/Desktop/devops&fullstack/theme-toggle-app...

◇ Installing dependencies with npm...

added 160 packages, and audited 161 packages in 7s

36 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

◇ Starting dev server...

> theme-toggle-app@0.0.0 dev
> vite

Port 5173 is in use, trying another one...

  ROLLDOWN-VITE v7.2.5  ready in 363 ms

  →  Local:   http://localhost:5174/
  →  Network: use --host to expose
  →  press h + enter to show help
h
```

```
(base) ulvaansyed@Ulvaans-MacBook-Air devops&fullstack % npm create vite@latest theme-toggle-app -- --template react
→  press h + enter to show help
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  Shortcuts
  press r + enter to restart the server
  press u + enter to show server url
  press o + enter to open in browser
  press c + enter to clear console
  press q + enter to quit
q
● (base) ulvaansyed@Ulvaans-MacBook-Air devops&fullstack % cd theme-toggle-app
● (base) ulvaansyed@Ulvaans-MacBook-Air theme-toggle-app % npm install

  added 1 package, and audited 162 packages in 795ms

  36 packages are looking for funding
    run `npm fund` for details

  found 0 vulnerabilities
(base) ulvaansyed@Ulvaans-MacBook-Air theme-toggle-app % npm run dev

> theme-toggle-app@0.0.0 dev
> vite

3:29:39 PM [vite] (client) Re-optimizing dependencies because lockfile has changed
Port 5173 is in use, trying another one...

  ROLLDOWN-VITE v7.2.5  ready in 526 ms

  →  Local:   http://localhost:5174/
  →  Network: use --host to expose
  →  press h + enter to show help
3:32:51 PM [vite] (client) hmr update /src/App.jsx
3:37:35 PM [vite] (client) hmr update /src/index.css
3:40:42 PM [vite] (client) hmr update /src/App.jsx
3:40:54 PM [vite] (client) hmr update /src/components/ThemeToggle.jsx
3:41:04 PM [vite] (client) hmr update /src/components/ThemeToggle.jsx (x2)
```
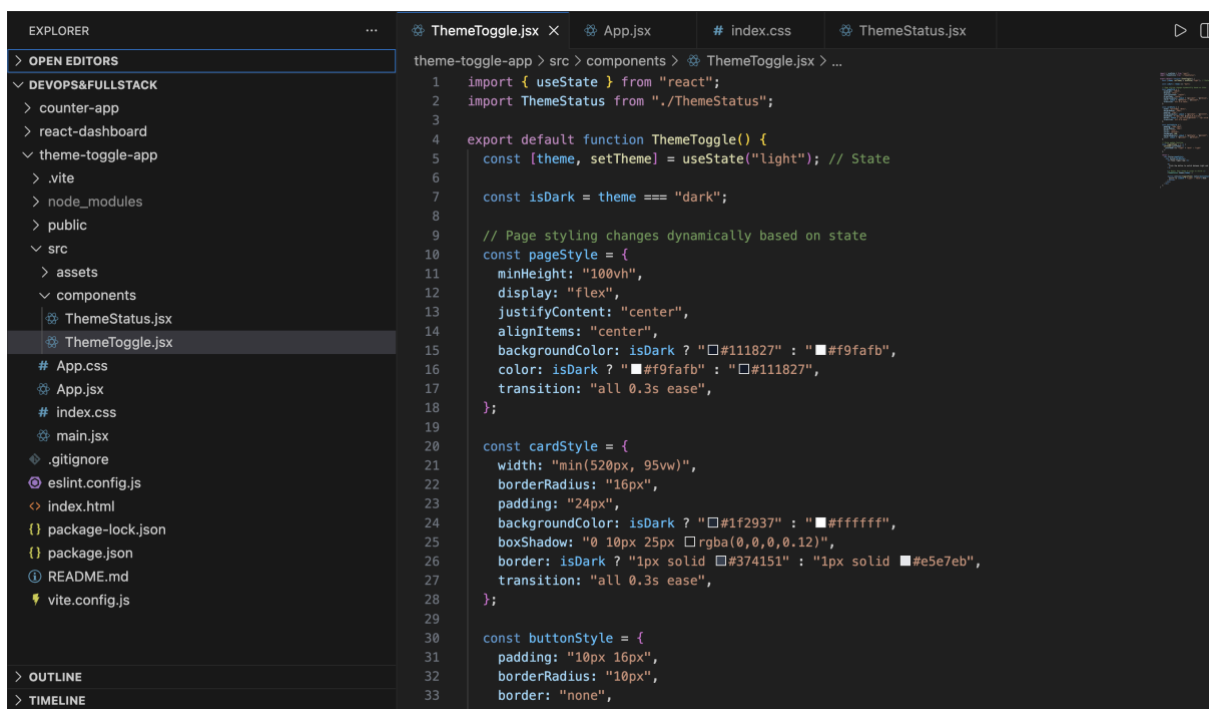
EXPLORER

> OPEN EDITORS
∨ DEVOPS&FULLSTACK
  > counter-app
  > react-dashboard
  ∨ theme-toggle-app
    > .vite
    > node_modules
    > public
    ∨ src
      > assets
      ∨ components
        ⚙ ThemeStatus.jsx
        ⚙ ThemeToggle.jsx
      # App.css
      ⚙ App.jsx
      # index.css
      ⚙ main.jsx
    ◈ .gitignore
    ◉ eslint.config.js
    <> index.html
    {} package-lock.json
    {} package.json
    ⓘ README.md
    ⚡ vite.config.js

> OUTLINE
> TIMELINE

ThemeToggle.jsx ×   App.jsx   # index.css   ⚙ ThemeStatus.jsx

theme-toggle-app > src > components > ⚙ ThemeToggle.jsx > ...

```jsx
1   import { useState } from "react";
2   import ThemeStatus from "./ThemeStatus";
3
4   export default function ThemeToggle() {
5     const [theme, setTheme] = useState("light"); // State
6
7     const isDark = theme === "dark";
8
9     // Page styling changes dynamically based on state
10    const pageStyle = {
11      minHeight: "100vh",
12      display: "flex",
13      justifyContent: "center",
14      alignItems: "center",
15      backgroundColor: isDark ? "□#111827" : "■#f9fafb",
16      color: isDark ? "■#f9fafb" : "□#111827",
17      transition: "all 0.3s ease",
18    };
19
20    const cardStyle = {
21      width: "min(520px, 95vw)",
22      borderRadius: "16px",
23      padding: "24px",
24      backgroundColor: isDark ? "□#1f2937" : "■#ffffff",
25      boxShadow: "0 10px 25px □rgba(0,0,0,0.12)",
26      border: isDark ? "1px solid ■#374151" : "1px solid ■#e5e7eb",
27      transition: "all 0.3s ease",
28    };
29
30    const buttonStyle = {
31      padding: "10px 16px",
32      borderRadius: "10px",
33      border: "none",
```

```
ThemeToggle.jsx    App.jsx ✕    # index.css    ThemeStatus.jsx
```

theme-toggle-app > src > App.jsx > ...

```jsx
1  import ThemeToggle from "./components/ThemeToggle";
2
3  export default function App() {
4    return (
5      <div style={{ width: "100vw", height: "100vh" }}>
6        <ThemeToggle />
7      </div>
8    );
9  }
10
```

Explorer tree:

```
> OPEN EDITORS
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  > counter-app
  > react-dashboard
  ∨ theme-toggle-app
    > .vite
    > node_modules
    > public
    ∨ src
      > assets
      ∨ components
          ThemeStatus.jsx
          ThemeToggle.jsx
        # App.css
        App.jsx
        # index.css
        main.jsx
    .gitignore
    eslint.config.js
    index.html
    {} package-lock.json
    {} package.json
    README.md
    vite.config.js
```

```
ThemeToggle.jsx    App.jsx    # index.css    ThemeStatus.jsx ✕
```

theme-toggle-app > src > components > ThemeStatus.jsx > ...

```jsx
1  export default function ThemeStatus({ theme }) {
2    return (
3      <p>
4        {theme === "light" ? (
5          <span>☀ Light Mode is Active</span>
6        ) : (
7          <span>🌙 Dark Mode is Active</span>
8        )}
9      </p>
10   );
11 }
12
```

Explorer tree:

```
> OPEN EDITORS
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  > counter-app
  > react-dashboard
  ∨ theme-toggle-app
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    > node_modules
    > public
    ∨ src
      > assets
      ∨ components
          ThemeStatus.jsx
          ThemeToggle.jsx
        # App.css
        App.jsx
        # index.css
        main.jsx
    .gitignore
    eslint.config.js
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    README.md
    vite.config.js
```

Theme Toggle App

Click the button to switch between Light and Dark mode.

🙂 Light Mode is Active

Switch to Dark Mode

Theme Toggle App

Click the button to switch between Light and Dark mode.

🌙 Dark Mode is Active

Switch to Light Mode