

ASSIGNMENT: LAB PRACTICAL-9

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LAB PRACTICAL-9

Scenario: Counter Application (Understanding State)

Scenario Description: You are developing a simple **Counter Application** to understand **React state**. The application should allow users to **increment, decrement, and reset** a counter value.

Task Instructions

Setup

- Create a React project using create-react-app.
- Start the development server.

Implementation Tasks

- Create a Counter component.
- Initialize state using `useState()`.
- Add buttons for:
 - Increment
 - Decrement
 - Reset
- Update the counter value using state setters.

Bonus Challenge

- Prevent the counter from going below zero.
- Display a message when a certain value is reached.

Expected Output

- Counter value updates dynamically.
 - Proper usage of React state.
 - Re-rendering on state change.
-

```
Microsoft Windows [Version 10.0.26100.7623]
(c) Microsoft Corporation. All rights reserved.

C:\Users\trish>npx create-react-app counter-app
Need to install the following packages:
create-react-app@5.1.0
Ok to proceed? (y) y
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and tested way to
coalesce async requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated rimraf@2.7.1: Rimraf versions prior to v4 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated fstream-ignore@1.0.5: This package is no longer supported.
npm warn deprecated uid-number@0.0.6: This package is no longer supported.
npm warn deprecated fstream@1.0.12: This package is no longer supported.
npm warn deprecated tar@2.2.2: Old versions of tar are not supported, and contain widely publicized security vulnerabilities, which have been fixed in the c
urrent version. Please update. Support for old versions may be purchased (at exorbitant rates) by contacting i@izs.me
create-react-app is deprecated.

You can find a list of up-to-date React frameworks on react.dev
For more info see:https://react.dev/link/cra

This error message will only be shown once per install.

Creating a new React app in C:\Users\trish\counter-app.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1302 packages in 59s

267 packages are looking for funding
  run `npm fund` for details
Git repo not initialized Error: Command failed: git --version
    at genericNodeError (node:internal/errors:985:15)
    at wrappedFn (node:internal/errors:539:14)
    at checkExecSyncError (node:child_process:925:11)
    at execSync (node:child_process:997:15)
    at tryGitInit (C:\Users\trish\counter-app\node_modules\react-scripts\scripts\init.js:46:5)
    at module.exports (C:\Users\trish\counter-app\node_modules\react-scripts\scripts\init.js:276:7)
    at [eval]:3:14
```

```
    at runScriptInThisContext (node:internal/vm:219:10)
    at node:internal/process/execution:451:12
    at [eval]-wrapper:6:24 {
  status: 1,
  signal: null,
  output: [ null, null, null ],
  pid: 53396,
  stdout: null,
  stderr: null
}

Installing template dependencies using npm...

added 17 packages, removed 1 package, and changed 1 package in 5s

266 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...

removed 1 package, and audited 1318 packages in 19s

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

21 vulnerabilities (15 moderate, 6 high)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

Success! Created counter-app at C:\Users\trish\counter-app
Inside that directory, you can run several commands:

  npm start
    Starts the development server.
```



```
ERROR in [eslint]
src\App.js
  Line 4:  Parsing error: `import` can only be used in `import()` or `import.meta`. (4:0)

webpack compiled with 2 errors
Compiling...
Compiled successfully!

You can now view counter-app in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://10.3.52.229:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
Compiling...
Compiled successfully!

You can now view counter-app in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://10.3.52.229:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
Compiling...
Compiled successfully!

You can now view counter-app in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://10.3.52.229:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

Counter Application

4

Increment Decrement Reset

Counter Application

10

🎉 You reached 10!

Increment Decrement Reset