

ASSIGNMENT: LAB PRACTICAL-9

NAME: TRISHA JHA

HT NO: 2303A51947

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>npm create-react-app counter-app
Need to install the following packages:
create-react-app@5.1.0
Ok to proceed? (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.
```

```
npm run build
  Bundles the app into static files for production.

npm test
  Starts the test runner.

npm run eject
  Removes this tool and copies build dependencies, configuration files
  and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd counter-app
  npm start

Happy hacking!

C:\Users\trish>cd counter-app

C:\Users\trish\counter-app>npm start

> counter-app@0.1.0 start
> react-scripts start

(node:36552) [DEP0176] DeprecationWarning: fs.F_OK is deprecated, use fs.constants.F_OK instead
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:36552) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
(node:36552) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
Starting the development server...
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.
```

```
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
```

