

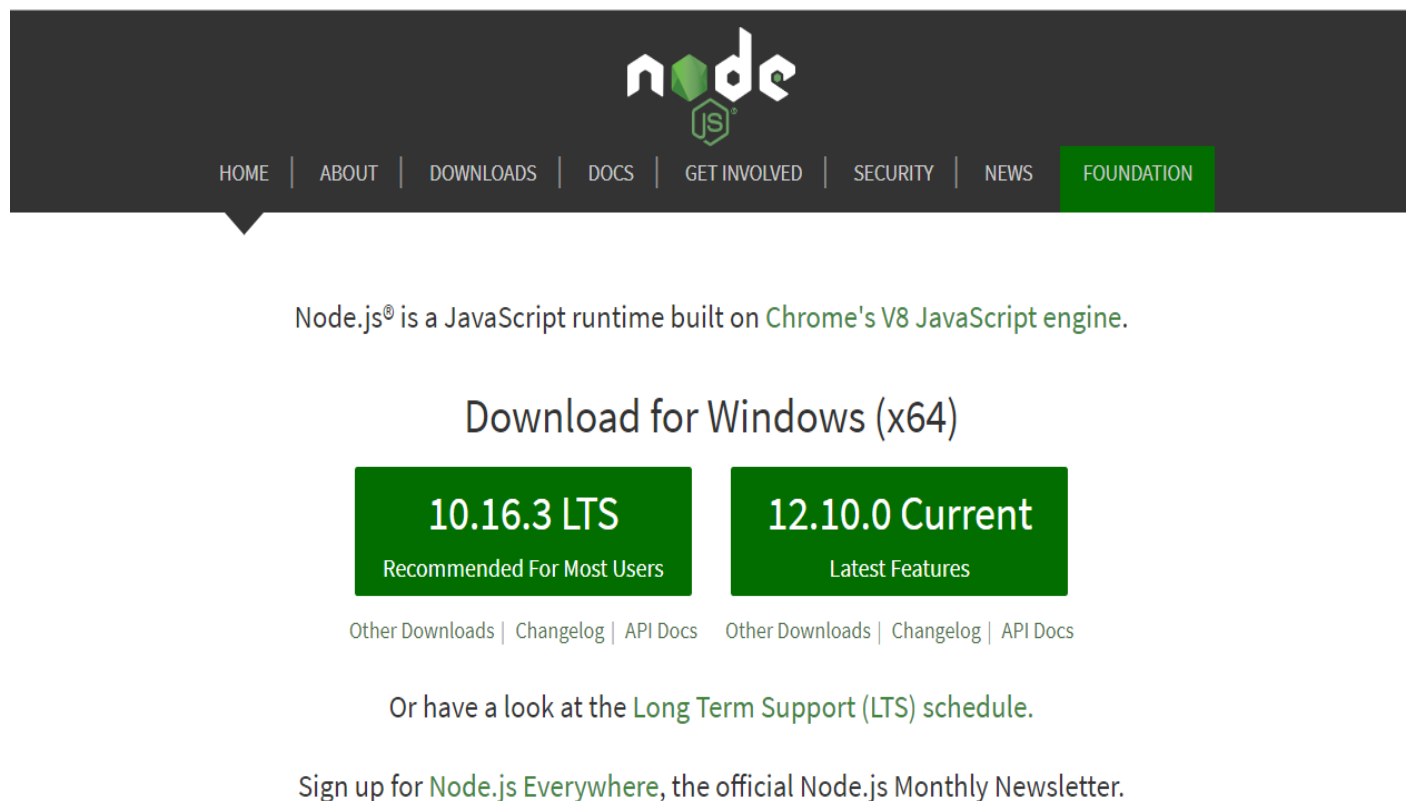
# TRAINING REPORT (TR-102)

DAY: -21 (8 JULY 2024)

## Install ReactJS on Windows

### Steps to Install React JS on Windows

**Step 1:** Install Node.js installer for Windows. Here, install the LTS version (the one present on the left). Once downloaded, open NodeJS without disturbing other settings, and click on the **Next** button until it's completely installed.



The screenshot shows the Node.js website with a dark header. The Node.js logo is centered at the top. Below it is a navigation bar with links: HOME, ABOUT, DOWNLOADS, DOCS, GET INVOLVED, SECURITY, NEWS, and FOUNDATION. The FOUNDATION link is highlighted in green. Below the navigation bar, a text line states: "Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine." The main content area is titled "Download for Windows (x64)". Below this title are two green buttons. The left button is labeled "10.16.3 LTS" and "Recommended For Most Users". The right button is labeled "12.10.0 Current" and "Latest Features". Below these buttons, there are two identical links: "Other Downloads | Changelog | API Docs". Below the links, there is a text line: "Or have a look at the Long Term Support (LTS) schedule." At the bottom, there is a text line: "Sign up for Node.js Everywhere, the official Node.js Monthly Newsletter."

node

HOME | ABOUT | DOWNLOADS | DOCS | GET INVOLVED | SECURITY | NEWS | FOUNDATION

Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine.

### Download for Windows (x64)

10.16.3 LTS	12.10.0 Current
Recommended For Most Users	Latest Features

Other Downloads | Changelog | API Docs    Other Downloads | Changelog | API Docs

Or have a look at the Long Term Support (LTS) schedule.

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**Step 2:** Open the command prompt to check whether it is completely installed or not type the command →

Node -v

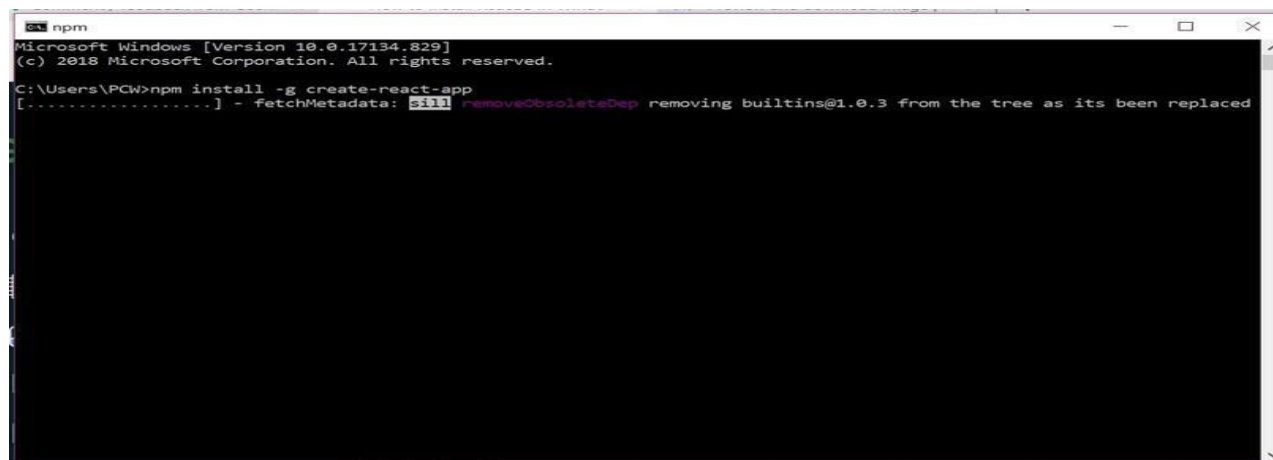


```
Command Prompt
Microsoft Windows [Version 10.0.17134.829]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\PCW>node -v
v14.15.3
C:\Users\PCW>
```

If the installation went well it will give you the version you have installed

**Step 3:** Now in the terminal run the below command:  
npm install-g create-react-app



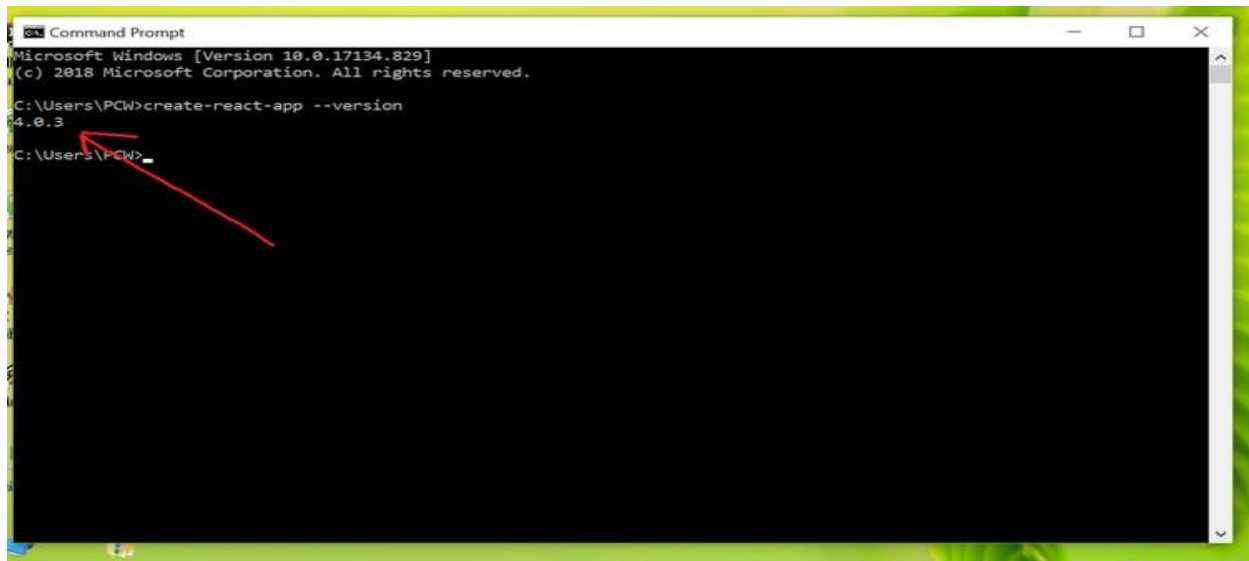
```
npm
Microsoft Windows [Version 10.0.17134.829]
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C:\Users\PCW>npm install -g create-react-app
[.....] - fetchMetadata: 511B removeObsoleteDep removing builtins@1.0.3 from the tree as its been replaced
```

*Installation will take few seconds*

It will globally install react app for you. To check everything went well run the command

Create-react-app-version



```
Command Prompt
Microsoft Windows [Version 10.0.17134.829]
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C:\Users\PCW>create-react-app --version
4.0.3
C:\Users\PCW>
```

*version 4.0.3*

If everything went well it will give you the installed version of react app

**Step 4:** Now Create a new folder where you want to make your react app using the below command:

```
mkdir newfolder
```

**Note:** The *newfolder* in the above command is the name of the folder and can be anything



```
Command Prompt
Microsoft Windows [Version 10.0.17134.829]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\PCW>mkdir newfolder
```

Move inside the same folder using the below

command: `cd newfolder` (your folder name)

```
Command Prompt
Microsoft Windows [Version 10.0.17134.829]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\PCW>E:
E:\>cd newfolder
E:\newfolder>_
```

Command to move inside your folder

Now you are inside your folder

**Step 5:** Now inside this folder run the command → create-react-app reactfile YOUR\_FILE\_NAME

```
Command Prompt
Microsoft Windows [Version 10.0.17134.829]
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C:\Users\PCW>E:
E:\>cd newfolder
E:\newfolder>create-react-app reactfirst
Creating a new React app in E:\newfolder\reactfirst.
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

> core-js@2.6.12 postinstall E:\newfolder\reactfirst\node_modules\babel-runtime\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js@3.18.3 postinstall E:\newfolder\reactfirst\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"
```

After running the command the output will look like the following

It will take some time to install the required dependencies

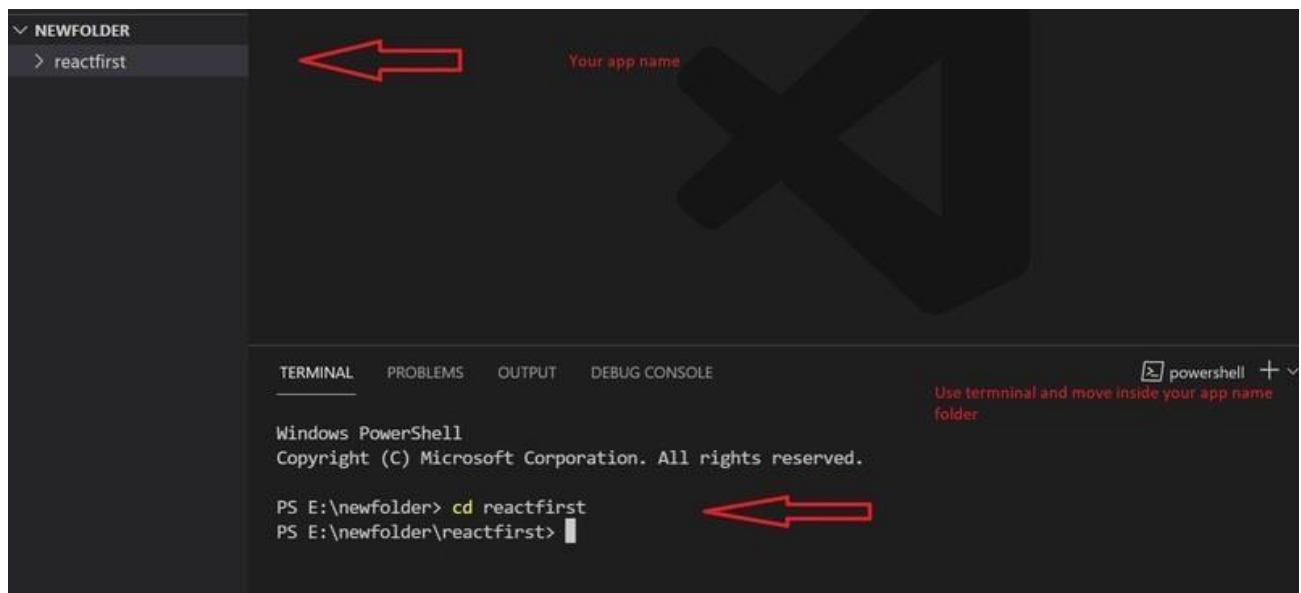
**NOTE:** Due to npm naming restrictions, names can no longer contain capital letters, thus type your app's name in lowercase.

```
C:\Users\sa552>create-react-app FirstReact
Cannot create a project named "FirstReact" because of npm naming restrictions:

  * name can no longer contain capital letters

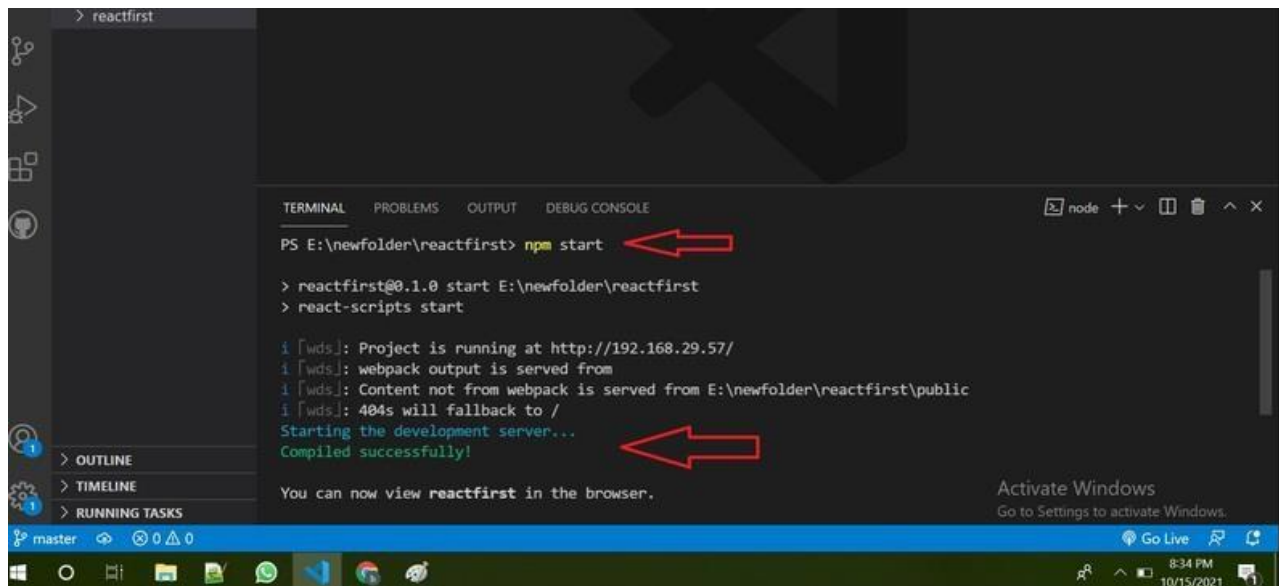
Please choose a different project name.
```

**Step 6:** Now open the IDE of your choice for eg. Visual studio code and open the folder where you have installed the react app **newfolder** (in the above example) inside the folder you will see your app's name **reactapp** (In our example). Use the terminal and move inside your app name folder. Use command **cd reactapp** (your app name)



**Step 7:** To start your app run the below

command: `npm start`



```
> reactfirst  
  
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE  
PS E:\newfolder\reactfirst> npm start  
  
> reactfirst@0.1.0 start E:\newfolder\reactfirst  
> react-scripts start  
  
i [wds]: Project is running at http://192.168.29.57/  
i [wds]: webpack output is served from  
i [wds]: Content not from webpack is served from E:\newfolder\reactfirst\public  
i [wds]: 404s will fallback to /  
Starting the development server...  
Compiled successfully!  
  
You can now view reactfirst in the browser.
```

The screenshot shows the Visual Studio Code interface with the terminal panel open. The command 'npm start' has been executed, and the output shows the development server starting successfully. Two red arrows point to the 'npm start' command and the 'Compiled successfully!' message. The Windows taskbar at the bottom shows the time as 8:34 PM on 10/15/2021.

Once you run the above command a new tab will open in your browser showing React logo as shown below:



Congratulation you have successfully installed the react-app and are ready to build awesome websites and app.

## Install React JS in Visual Studio Code

## 1. Install Visual Studio Code

Before you dive into React development, make sure you have Visual Studio Code installed on your machine. You can download it from the official website [here](#).

## 2. Set Up Node.js and npm

React JS relies on Node.js and npm (Node Package Manager) for managing dependencies and building applications. If you don't have Node.js installed, download it from the official website [here](#). Once installed, npm will be available in your command line.

## 3. Create a React App

Open your terminal and run the following command to create a new React app:

```
npx create-react-app my-react-app
```

## 4. Navigate to the App Directory

Move to the app directory using the following command:

```
cd my-react-app
```

## 5. Launch Visual Studio Code

Open the app in Visual Studio Code using the following command:

```
code .
```

## 6. Start the Development Server

In the terminal within Visual Studio Code, start the development server:

```
npm start
```

Your React app will now be running locally on a development server.

7. Begin Coding: You're all set to start coding your React app! Open the src directory and begin exploring and modifying the code to create your desired application.