I'll break this down into **separate batch files** for each step so that each function remains modular and easier to debug. These batch files will handle:

1. **Folder Creation** (create\_folders.bat)
2. **File Creation** (create\_files.bat)
3. **Nesting (Component Organization)** (nesting\_structure.bat)
4. **Routing Setup** (setup\_routing.bat)
5. **SEO Optimization** (seo\_setup.bat)
6. **Copyright Injection** (add\_copyright.bat)

**1️⃣ Folder Creation – create\_folders.bat**

This batch file will create the main folder structure for a **React.js project**.

@echo off

setlocal enabledelayedexpansion

echo ==========================================

echo 🚀 Creating React Project Folder Structure

echo ==========================================

SET "ROOT=src"

:: Create Root Folders

mkdir "%ROOT%"

mkdir "%ROOT%\assets\images"

mkdir "%ROOT%\assets\fonts"

mkdir "%ROOT%\assets\icons"

mkdir "%ROOT%\components"

mkdir "%ROOT%\context"

mkdir "%ROOT%\hooks"

mkdir "%ROOT%\layouts"

mkdir "%ROOT%\services"

mkdir "%ROOT%\styles"

mkdir "%ROOT%\utils"

mkdir "%ROOT%\seo"

mkdir "%ROOT%\pages"

mkdir "%ROOT%\pages\Frontend"

mkdir "%ROOT%\pages\Auth"

mkdir "%ROOT%\pages\Dashboards"

:: Create Page Subfolders

call :create\_page\_structure "Frontend" "Home"

call :create\_page\_structure "Frontend" "About"

call :create\_page\_structure "Frontend" "Contact"

call :create\_page\_structure "Auth" "Login"

call :create\_page\_structure "Auth" "Register"

call :create\_page\_structure "Dashboards\User" "UserDashboard"

call :create\_page\_structure "Dashboards\Admin" "AdminDashboard"

mkdir "public"

mkdir "public\seo"

echo ✅ Folder structure created successfully!

exit

:create\_page\_structure

mkdir "%ROOT%\pages\%1\%2"

mkdir "%ROOT%\pages\%1\%2\components"

mkdir "%ROOT%\pages\%1\%2\sections"

exit /b

**2️⃣ File Creation – create\_files.bat**

This script will create all **default files** inside the folders created earlier.

@echo off

setlocal enabledelayedexpansion

echo ==========================================

echo 📂 Creating Default Files

echo ==========================================

:: Create Default Component Files

call :create\_file "src\components\Header.js" "Header Component"

call :create\_file "src\components\Footer.js" "Footer Component"

:: Create Default Page Files

call :create\_file "src\pages\Frontend\Home\Home.js" "Home Page"

call :create\_file "src\pages\Frontend\About\About.js" "About Page"

call :create\_file "src\pages\Auth\Login\Login.js" "Login Page"

call :create\_file "src\pages\Auth\Register\Register.js" "Register Page"

echo ✅ Default files created successfully!

exit

:create\_file

(

echo /\* >> %1

echo \* Project: React App Setup >> %1

echo \* Author: Your Name >> %1

echo \* License: MIT >> %1

echo \* Created on: %DATE% >> %1

echo \*/ >> %1

echo import React from "react"; >> %1

echo const %~n1 = () => { >> %1

echo return ( >> %1

echo <div> >> %1

echo <h1>%2</h1> >> %1

echo </div>; >> %1

echo ); >> %1

echo }; >> %1

echo export default %~n1; >> %1

)

exit /b

**3️⃣ Nesting Structure – nesting\_structure.bat**

This script will ensure all **nested components and sections** are inside each page folder.

@echo off

setlocal enabledelayedexpansion

echo ==========================================

echo 🔄 Creating Nested Structure

echo ==========================================

:: Create Components inside Home Page

call :create\_nested\_file "src\pages\Frontend\Home\components\HomeHeader.js" "Home Header Component"

call :create\_nested\_file "src\pages\Frontend\Home\sections\HeroSection.js" "Hero Section"

call :create\_nested\_file "src\pages\Frontend\Home\sections\FeaturesSection.js" "Features Section"

:: Create Components inside About Page

call :create\_nested\_file "src\pages\Frontend\About\components\TeamSection.js" "Team Section"

call :create\_nested\_file "src\pages\Frontend\About\sections\CompanyHistory.js" "Company History"

echo ✅ Nested structure created successfully!

exit

:create\_nested\_file

call :create\_file %1 %2

exit /b

**4️⃣ Routing Setup – setup\_routing.bat**

This script will create the **React Router setup** for the project.

@echo off

setlocal enabledelayedexpansion

echo ==========================================

echo 🚦 Setting Up React Routing

echo ==========================================

(

echo import React from "react";

echo import { BrowserRouter as Router, Routes, Route } from "react-router-dom";

echo import Home from "./pages/Frontend/Home/Home";

echo import About from "./pages/Frontend/About/About";

echo import Login from "./pages/Auth/Login/Login";

echo import Register from "./pages/Auth/Register/Register";

echo.

echo const AppRouter = () => {

echo return (

echo <Router>

echo <Routes>

echo <Route path="/" element={<Home />} />

echo <Route path="/about" element={<About />} />

echo <Route path="/login" element={<Login />} />

echo <Route path="/register" element={<Register />} />

echo </Routes>

echo </Router>

echo );

echo };

echo export default AppRouter;

) > "src\AppRouter.js"

echo ✅ Routing setup completed successfully!

exit

**5️⃣ SEO Optimization – seo\_setup.bat**

This script will create **SEO-related files**.

@echo off

setlocal enabledelayedexpansion

echo ==========================================

echo 🌍 Creating SEO Files

echo ==========================================

:: Create robots.txt

(

echo User-agent: \*

echo Disallow:

) > "public\robots.txt"

:: Create sitemap.xml

(

echo ^<?xml version="1.0" encoding="UTF-8"?^>

echo <urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">

echo <url>

echo <loc>http://yourwebsite.com/</loc>

echo </url>

echo <url>

echo <loc>http://yourwebsite.com/about</loc>

echo </url>

echo <url>

echo <loc>http://yourwebsite.com/login</loc>

echo </url>

echo </urlset>

) > "public\seo\sitemap.xml"

echo ✅ SEO setup completed successfully!

exit

**6️⃣ Copyright Injection – add\_copyright.bat**

This script will inject a **copyright notice** into every file.

@echo off

setlocal enabledelayedexpansion

echo ==========================================

echo 📜 Adding Copyright Notices

echo ==========================================

:: Apply Copyright to all JS files

for /R "src" %%F in (\*.js) do (

echo /\* >> "%%F"

echo \* Project: React App Setup >> "%%F"

echo \* Author: Your Name >> "%%F"

echo \* License: MIT >> "%%F"

echo \* Created on: %DATE% >> "%%F"

echo \*/ >> "%%F"

echo. >> "%%F"

)

echo ✅ Copyright notices added!

exit

**🎯 How to Use**

1. Copy each script into a separate .bat file.
2. Run the scripts **in order**:
   * create\_folders.bat
   * create\_files.bat
   * nesting\_structure.bat
   * setup\_routing.bat
   * seo\_setup.bat
   * add\_copyright.bat
3. The project structure will be set up automatically.

This ensures best **React.js development practices** and **modular code organization**. 🚀 Let me know if you need any changes! 😊