

Fully Revised for 2026

Creating NPM Package

Your React JavaScript Guide to Create, Test, and Publish NPM Libraries

OLUWATOBI SOFELA

Creating NPM Package with ReactJS

React JavaScript Guide to Create, Test, and Publish NPM Libraries

This book is available at
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Introduction

Welcome to the World of NPM Packages!

NPM (Node Package Manager) is a vast database ecosystem that hosts thousands of reusable code packages. Developers use it to share, manage, discover, and install libraries that solve everyday problems or add functionality to their applications.



Packages are sometimes called libraries, plugins, frameworks, or tools. It is simply a directory (or project) that includes a `package.json` file for recording key information about the package.

Publishing your own NPM package is an empowering way to contribute to the developer community, grow your skills, and build a portfolio-worthy product. In doing so, you will strengthen a range of valuable abilities, including:

- Communication
- Collaboration
- Organization
- Problem-solving
- Documentation
- Technical development

Becoming a package publisher allows you to take your ideas from concept to a distributable product that others can integrate into their projects. It is a great way to stand out as a developer.

This book is a practical guide to creating, testing, and publishing your own NPM packages using ReactJS. No prior publishing experience is required.

Why This Book Will Help You

Learning to publish NPM packages is not a craft you master by merely reading or watching tutorials—it is a skill you develop by doing.

That is why this book is project-based and hands-on. Along the way, you will build a working NPM package while applying new concepts immediately in a real-world scenario.

To get the most out of this book, open your code editor (like VS Code) and follow along with the examples. Doing so will keep you from falling into "tutorial hell"—where you watch countless tutorials but never actually build anything.

What You Will Build

You will develop a functional and customizable Tweet Button package throughout the book.

While this library might sound simple, don't underestimate it. This project is designed to teach you the essential skills and patterns required to publish any NPM package. Once you understand the process, you will have the ability to scale your own ideas to any level of complexity.

Use the Right Tools

To ensure smooth progress, it is best to use the exact versions of dependencies listed in this book. This helps avoid unexpected issues that might arise from newer versions.

After completing the project, feel free to upgrade the dependencies. If anything breaks, check online documentation or community discussions for solutions.

What You Should Know First

Knowing the basics of Git, GitHub, React, and JavaScript will make it easier to learn how to publish NPM packages. It's helpful to be familiar with these tools before you start.

Got Questions?

If you have questions or comments about this book, email contact@codesweetly.com or send me a direct message on Twitter (@oluwatobiss).

Let's Get Started!

The next chapter will show you how to set up the project.

Project Configuration

Below is the required system and file configurations for creating NPM packages.

1. Set Up Your System

Ensure your system has the following installations:

- Git
- Node 22.13 (or greater)
- NPM 10.9 (or greater)



- Refer to the Git tutorial to install, update, or verify Git on your system.
- See the package manager tutorial for steps to install, update, or verify Node and NPM.

2. Create a Project Directory

Create a new folder for your project as follows:

Figure 1. Command Line

```
1  mkdir thank-you-tweet-button-001
```



You may use any name. For example, this tutorial uses `thank-you-tweet-button-001`.



- Choose a name with 214 characters or fewer.
- Use only lowercase letters in your project name.
- Do not include “js” or “node” in your package name.

Afterward, navigate to your project directory using the command line:

Figure 2. The Syntax to Change to a Different Directory

```
cd path/to/thank-you-tweet-button-001
```

3. Create a package.json File

Use NPM to initialize a package.json file for your project.

Figure 3. Command Line

```
npm init -y
```

4. Configure the Project as an ES Module NPM Package

This guide uses ES Modules in all JavaScript files, so add a `"type": "module"` field to your project's `package.json` file.

Figure 4. package.json: Set up package as an ES Module library (line 5)

```
{
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "type": "module"
}
```

You should also initialize Git at this stage.

5. Initialize a Git Repository

Create a `.git` repo in your project's root directory:

Figure 5. Command Line

```
git init
```

6. Specify the Files Git Should Ignore

Create a `.gitignore` file in your project's root directory:

Figure 6. Command Line

```
touch .gitignore
```

Afterward, open the newly created `.gitignore` file and write the names of the files, folders, or file types you want Git to ignore.

Here's an example:

Figure 7. .gitignore

```
/node_modules
/dist
```

The snippet above instructs Git to ignore tracking the current directory's `node_modules` and `dist` folders.



- A current directory is the folder in which you are currently working.
- A current directory is sometimes called a "current working directory (CWD)" or "working directory."

Now, stage and commit your recent changes.

7. Stage and Commit Your Project's Changes to Git

Run the following command in your terminal to stage and commit your recent changes.

Figure 8. Command Line

```
git add -A && git commit -m "Initialize project using CodeSweetly's guide"
```

The command above tells Git to stage and commit all modified and untracked files in the project.

Next, configure a remote repository for the project.

8. Configure a GitHub Remote Repository

1. Go to the GitHub website and sign in or create an account if you do not have one.
2. After signing in, create a new GitHub repository. You may use `thank-you-tweet-button-001` or another name of your choice.
3. Once you've created a remote repository for your package, link your project's `.git` directory (located locally on your system) with the remote repository on GitHub. To connect to the remote repository, go to your package's root directory via your local terminal and run the `git remote add` command. Here's the syntax:

Figure 9. Command Line

```
git remote add origin https://github.com/your-username/remote-repo-name.git
```



- Replace `your-username` in the code above with your GitHub username. Likewise, replace `remote-repo-name` with your remote repository's name.
- See GitHub Docs to learn more on creating a GitHub repository.

You can also add the remote repo to your `package.json` file for easy access to people who want to contribute to your project.

Figure 10. package.json: Add repository field (line 4-7)

```
{
  "name": "thank-you-tweet-button-001",
  "version": "1.0.0",
  "repository": {
    "type": "git",
    "url": "https://github.com/your-username/app-repo-name.git"
  },
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  }
}
```

Let's provide the remote repo's issues URL as the package's bug tracker. And an email people can use to report issues:

Figure 11. package.json: Add bugs field (line 8-11)

```
{
  "name": "thank-you-tweet-button-001",
  "version": "1.0.0",
  "repository": {
    "type": "git",
    "url": "https://github.com/your-username/app-repo-name.git"
  },
  "bugs": {
    "url": "https://github.com/your-username/app-repo-name/issues",
    "email": "your-project-email@host.com"
  },
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  }
}
```

Afterward, stage and commit your changes:

Figure 12. Command Line

```
git add -A && git commit -m "Create repository and bugs fields"
```

Next, push your local Git repository to the remote repository.

9. Push Your Local Git Directory to the Remote Repo

After successfully connecting your local directory to the remote repository, you can begin pushing (uploading) your local project to the remote repository. Here's how:

Figure 13. Command Line

```
git push -u origin main
```

The command above instructs Git to push your local `main` branch's `.git` directory to the remote `origin` branch on GitHub.



If you refresh the main page of your remote repository, you should see your upload.

Now it's time to set up your project with React.

10. Install React

Install React as a development dependency

Figure 14. Command Line

```
1  npm i -D react@19.2.4
```

The command above tells NPM to install `react` as your package's development dependency.



- The `react` package is a library containing React's core functionality for creating React components.
- `i` is the shorthand notation for `install`.
- The `-D` flag is the shorthand notation for `--save-dev`.

You may wonder why React is installed as a development dependency if users need it in production. The following explains the reasoning.

Why Install React as a Package's Dev-Dependency?

Installing React as a development dependency prevents users from being required to download React when installing your package.

React requires only one copy of the `react` package per project. Therefore, specifying React as a dev-dependency prevents users from having to download React when installing your package. If their project already has a React copy, they wouldn't need to install another one.

One thing to note: your package will only work in projects that already have React installed. But there's a good workaround:

- Duplicate the `"react"` property from your package.json `"devDependencies"` field into the `"peerDependencies"` field as shown:

Figure 15. package.json: Add peerDependencies field (line 5-7)

```
{
  "devDependencies": {
    "react": "^19.2.4"
  },
  "peerDependencies": {
    "react": "^19.2.4"
  }
}
```

Specifying React as a peer-dependency tells package managers to check whether the app installing your package contains the listed `peerDependencies`. If so, the application has the dependencies your package needs to work.

If the package manager cannot find the `peerDependencies`, some NPM versions (such as 7 and 11) will install them automatically. Other versions (such as 3-6) will display a warning that informs the user to install the dependencies manually.

dependencies vs. devDependencies vs. peerDependencies

- `"dependencies"` specify the packages a project depends on in production (when your app is running on a live server).
- The `"devDependencies"` field lists all the packages a project does not need in production, but requires for its local development and testing purposes.
- `"peerDependencies"` list all the packages a project expects its host application to have in its `node_modules` directory.

Stage and commit your changes:

Figure 16. Command Line

```
git add -A && git commit -m "Install react"
```

After configuring the project, continue to the next chapter to learn how to write a test case for your component.

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5. Deploy Your Project to Vercel

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6. Test the Package on Your Live Demo Website

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Updating Package's Versions

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Example 1: Updating to a Patch Version

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Example 2: Updating to a Minor Version

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Example 3: Updating to a Major Version

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Automating Version Management

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1. Create a Release GitHub Action Workflow File

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2. Define the Release GitHub Action Workflow

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3. How to Overwrite semantic-release's Default Configurations

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4. Notify Developers That the Package Uses Automated Version Management

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NPM Trusted Publishing Configuration

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Add a New Feature

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Update an Existing Feature

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Automating GitHub Releases

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Add the Preset Library to Your Release Workflow

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Configure semantic-release to Automatically Publish the Package's Release Notes

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Modularizing JavaScript Codebase

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1. Identify Independent Elements

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2. Split the Elements You Want to Extract into Their Separate Modules

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3. Import the Extracted Elements into the `TweetButton.jsx` File

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4. Release the Latest Version of the Project

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Epilogue

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What's Next?

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One Last Favor

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