1. Update package.json

{

*/\*Other properties\*/*

"main": "dist/index.js", */\*Serves as entry point for your package\*/*

"types": "dist/types/index.d.ts", */\*location of ts declaration files\*/*

"files": [

"dist",

"src"

],

"scripts": {

"build": "tsc",

"prepublishOnly": "npm run build"

},

*/\*Other properties\*/*

"devDependencies": {

*/\*Add packages required for development of the library\*/*

},

"peerDependencies": {

"react": "^17.0.0 || ^18.0.0",

"react-dom": "^17.0.0 || ^18.0.0"

},

"dependencies": {

*/\*Generally empty for react library\*/*

}

}

1. Install typescript and build tools: Install required tools for building the package

npm install --save-dev typescript @types/react @types/react-dom

1. Configure typescript at tsconfig.json

{

"compilerOptions": {

"typeRoots": ["node\_modules/@types"],

"types": ["jest"],

"lib": ["DOM", "ES2015"],

"target": "ES5",

"module": "ESNext",

"moduleResolution": "Node",

"outDir": "dist",

"declaration": true,

"declarationDir": "dist/types",

"strict": true,

"jsx": "react",

"esModuleInterop": true,

"skipLibCheck": true,

"forceConsistentCasingInFileNames": true

},

"include": ["src/\*\*/\*"],

"exclude": ["node\_modules", "dist"]

}

1. Install webpack and packages

npm install --save-dev webpack webpack-cli copy-webpack-plugin mini-css-extract-plugin css-loader file-loader ts-loader @svgr/webpack

Here’s what these packages do:

* webpack, webpack-cli: Core tools for bundling.
* copy-webpack-plugin: Copies files like .css or .svg to the dist folder.
* mini-css-extract-plugin: Extracts CSS into separate files.
* css-loader: Loads CSS for processing.
* file-loader: Handles assets like .svg.
* ts-loader: Compiles TypeScript files.
* @svgr/webpack: Handles SVG imports as React components.

1. Create webpack.config.js in root folder

const path = require('path');

const MiniCssExtractPlugin = require('mini-css-extract-plugin');

const CopyWebpackPlugin = require('copy-webpack-plugin');

module.exports = {

entry: './src/index.tsx', *// Adjust your entry point as needed*

output: {

filename: 'bundle.js',

path: path.resolve(\_\_dirname, 'dist'),

},

resolve: {

extensions: ['.tsx', '.ts', '.js'],

},

module: {

rules: [

{

test: /\.tsx?$/,

use: 'ts-loader',

exclude: /node\_modules/,

},

{

test: /\.css$/,

use: [MiniCssExtractPlugin.loader, 'css-loader'],

},

{

test: /\.svg$/,

type: 'asset/resource', // Emits SVG files to the `dist` folder

},

],

},

plugins: [

new MiniCssExtractPlugin({ filename: '[name].css' }), // Extracts CSS to separate files

new CopyWebpackPlugin({

patterns: [

{

from: path.resolve(\_\_dirname, 'src/components/\*\*/\*.css'), // Match all CSS files in `src`

to: path.resolve(\_\_dirname, 'dist/ components/\*\*/ [name][ext]'), // Copy to `dist` with the same names

},

{

from: path.resolve(\_\_dirname, 'src/assets/\*\*/\*'), // Match all SVG files in `src`

to: path.resolve(\_\_dirname, 'dist/assets/[name][ext]'), // Copy to `dist` with the same names

},

],

}),

],

};

1. Build the library

npm run build

1. Run following command to bundle the project

npx webpack --mode production

1. Login to npm

npm login

1. Publish the package

npm publish –access public