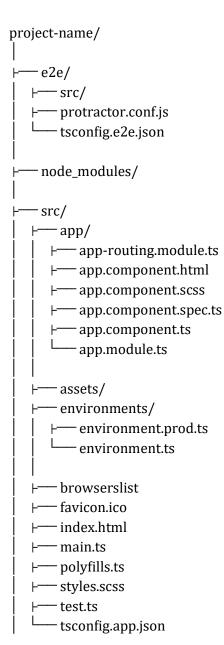
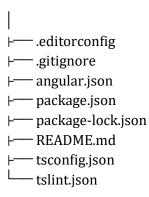
Directory Structure and Configuration Files in Angular

Directory Structure of an Angular Project

When you create a new Angular project using the Angular CLI ('ng new project-name'), it generates a directory structure with several folders and files. Here's a typical directory structure:





Explanation of Key Directories and Files

1. e2e/

Purpose: Contains end-to-end tests for the Angular application.

Files:

- src/: Source files for end-to-end tests.
- - protractor.conf.js: Configuration file for Protractor.
- - tsconfig.e2e.json: TypeScript configuration file for e2e tests.

2. node modules/

Purpose: Contains all the npm packages that the project depends on.

3. src/

Purpose: Contains the source code of the Angular application.

Key Subdirectories and Files:

- - app/: Contains the main application module and components.
 - - app-routing.module.ts: Routing module for the application.
 - app.component.*: Main application component files (HTML, SCSS, Spec, and TS).
 - - app.module.ts: Main application module.
- - assets/: Contains static assets like images and fonts.
- - environments/: Contains environment-specific configuration files.
 - - environment.prod.ts: Production environment settings.
 - - environment.ts: Development environment settings.
- - browserslist: Specifies the browser versions the project supports.
- - favicon.ico: Icon for the application.
- index.html: Main HTML file.

- - main.ts: Entry point for the application.
- - polyfills.ts: Polyfills required by Angular.
- - styles.scss: Global styles for the application.
- - test.ts: Entry point for unit tests.
- tsconfig.app.json: TypeScript configuration for the application.

Root Configuration Files

- .editorconfig: Configuration for code editors to maintain consistent coding styles.
- .gitignore: Specifies files and directories that should be ignored by Git.
- - angular.json: Angular CLI configuration file. Defines project structure, build options, etc.
- package.json: Lists npm dependencies, scripts, and metadata for the project.
- package-lock.json: Locks the versions of dependencies for consistent installs.
- - README.md: Project documentation.
- tsconfig.json: TypeScript configuration file.
- - tslint.json: Configuration for TSLint, a static analysis tool for TypeScript.

Configuration Files in Detail

angular.json

Purpose: Defines workspace configuration for Angular CLI, including project structure, build, serve, test, and lint commands.

Key Sections:

- - projects: Lists all the projects in the workspace.
- - defaultProject: Specifies the default project to use.

tsconfig.json

Purpose: Root TypeScript configuration file.

Key Sections:

- compilerOptions: Specifies compiler options.
- - include: Specifies files to include in the compilation.

tsconfig.app.json

Purpose: TypeScript configuration for the Angular application.

Key Sections:

- extends: Extends the root tsconfig.json.
- - files, include, and exclude: Specify files to include and exclude.

tslint.json

Purpose: Configuration for TSLint, used to ensure code quality.

Key Sections:

• - rules: Defines linting rules.

package.json

Purpose: Manages npm dependencies and scripts.

Key Sections:

- - dependencies: Lists runtime dependencies.
- - devDependencies: Lists development dependencies.
- - scripts: Defines npm scripts for tasks like build, test, and serve.