# **Create the Angular APP**

**$ ng new angular-app**

CREATE angular-app/angular.json (2947 bytes)

CREATE angular-app/package.json (1042 bytes)

CREATE angular-app/README.md (1064 bytes)

CREATE angular-app/tsconfig.json (863 bytes)

CREATE angular-app/.editorconfig (274 bytes)

bash: 9:22:43: command not found

CREATE angular-app/.gitignore (548 bytes)

CREATE angular-app/.browserslistrc (600 bytes)

CREATE angular-app/karma.conf.js (1428 bytes)

CREATE angular-app/tsconfig.app.json (287 bytes)

CREATE angular-app/tsconfig.spec.json (333 bytes)

CREATE angular-app/.vscode/extensions.json (130 bytes)

CREATE angular-app/.vscode/launch.json (474 bytes)

CREATE angular-app/.vscode/tasks.json (938 bytes)

CREATE angular-app/src/favicon.ico (948 bytes)

CREATE angular-app/src/index.html (296 bytes)

CREATE angular-app/src/main.ts (372 bytes)

CREATE angular-app/src/polyfills.ts (2338 bytes)

CREATE angular-app/src/styles.css (80 bytes)

CREATE angular-app/src/test.ts (749 bytes)

CREATE angular-app/src/assets/.gitkeep (0 bytes)

CREATE angular-app/src/environments/environment.prod.ts (51 bytes)

CREATE angular-app/src/environments/environment.ts (658 bytes)

CREATE angular-app/src/app/app.module.ts (314 bytes)

CREATE angular-app/src/app/app.component.html (23083 bytes)

CREATE angular-app/src/app/app.component.spec.ts (971 bytes)

CREATE angular-app/src/app/app.component.ts (215 bytes)

CREATE angular-app/src/app/app.component.css (0 bytes)

- Installing packages (npm)...

√ Packages installed successfully.

Successfully initialized git.

skantemneni@CVG-0002160-025 MINGW64 /c/Development/TypeScript/MasteringTypeScript/ch11

**$ cd angular-app/**

skantemneni@CVG-0002160-025 MINGW64 /c/Development/TypeScript/MasteringTypeScript/ch11/angular-app (master)

skantemneni@CVG-0002160-025 MINGW64 /c/Development/TypeScript/MasteringTypeScript/ch11/angular-app (master)

**$ ng serve**

- Generating browser application bundles (phase: setup)...

√ Browser application bundle generation complete.

Initial Chunk Files | Names | Raw Size

vendor.js | vendor | 1.73 MB |

polyfills.js | polyfills | 315.34 kB |

styles.css, styles.js | styles | 207.37 kB |

main.js | main | 48.05 kB |

runtime.js | runtime | 6.52 kB |

| Initial Total | 2.29 MB

Build at: 2022-08-11T14:08:34.602Z - Hash: b853d7b12eff6929 - Time: 11600ms

\*\* Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ \*\*

√ Compiled successfully.

**$ ^C to kill app**

**$ ng generate component components/header**

CREATE src/app/components/header/header.component.html (21 bytes)

CREATE src/app/components/header/header.component.spec.ts (599 bytes)

CREATE src/app/components/header/header.component.ts (275 bytes)

CREATE src/app/components/header/header.component.css (0 bytes)

UPDATE src/app/app.module.ts (396 bytes)

skantemneni@CVG-0002160-025 MINGW64 /c/Development/TypeScript/MasteringTypeScript/ch11/angular-app (master)

**$ ng generate module app-routing --flat --module=app**

CREATE src/app/app-routing.module.ts (196 bytes)

UPDATE src/app/app.module.ts (486 bytes)

# **Angular Material**

**$ ng add @angular/material**

- Determining package manager...

i Using package manager: npm

- Searching for compatible package version...

√ Found compatible package version: @angular/material@14.1.1.

- Loading package information from registry...

√ Package information loaded.

No terminal detected. '--skip-confirmation' can be used to bypass installation confirmation. Ensure package name is correct prior to '--skip-confirmation' option usage.

Command aborted.

**$ ng add @angular/material --skip-confirmation**

- Determining package manager...

i Using package manager: npm

- Searching for compatible package version...

√ Found compatible package version: @angular/material@14.1.1.

- Loading package information from registry...

√ Package information loaded.

- Installing packages...

√ Packages successfully installed.

UPDATE package.json (1108 bytes)

- Installing packages (npm)...

√ Packages installed successfully.

UPDATE src/app/app.module.ts (595 bytes)

UPDATE angular.json (3150 bytes)

UPDATE src/index.html (555 bytes)

UPDATE src/styles.css (181 bytes)

**$ ng generate module shared**

**This is done for packing all angular component dependencies into a shared module**

CREATE src/app/shared/shared.module.ts (192 bytes)

**$ ng generate component components/user-details**

CREATE src/app/components/user-details/user-details.component.html (27 bytes)

CREATE src/app/components/user-details/user-details.component.spec.ts (635 bytes)

CREATE src/app/components/user-details/user-details.component.ts (298 bytes)

CREATE src/app/components/user-details/user-details.component.css (0 bytes)

UPDATE src/app/app.module.ts (783 bytes)

# Use SCSS instead of CSS

Apparently, we can use an option when we first create the application

**$ ng new angular-app --style=SCSS**

Otherwise, you are supposed to upgrade as follows: However, I draw and error

**$ ng config -g schematics.@schematics/angular:component.styleext scss**

Error: Schema validation failed with the following errors:

Data path "/schematics/@schematics~1angular:component" must NOT have additional properties(styleext).

The end result of that above statement is supposed to be the following update to your angular.json

"schematics": {

"@schematics/angular:component": {

"styleext": "scss"

}

I am manually updating it on recommendation from:

<https://www.querythreads.com/how-do-i-add-sass-compilation-in-angular-cli-6-angular-json/>

I renamed and updated the following files:

1. "src/styles.css" -to- "src/styles.scss" (renamed)
2. Angular.json to reference styles.scss (updated)
3. Every component’s .css file to .scss (renamed) (I had 3)
4. Every component’s .ts file to reference scss template file (updated)

# Angular Services and Domain Events Service Design (ServiceBus)

**$ ng generate service services/broadcast**

CREATE src/app/services/broadcast.service.spec.ts (372 bytes)

CREATE src/app/services/broadcast.service.ts (138 bytes)

\*\*\*\* Note that we are installing Underscore and related Types… If we do…\*\*\*\*

**$ npm install underscore**

added 1 package, removed 1 package, and audited 923 packages in 2s

119 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

**$ npm install @types/underscore --save-dev (\*\*\* do not do --save-dev)**

added 1 package, and audited 924 packages in 2s

119 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

**$ npm install lodash --save-dev**

up to date, audited 924 packages in 2s

119 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

**$ npm install @types/lodash --save-dev**

added 1 package, and audited 925 packages in 3s

119 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

**\*\*\*\* THROWS THE FOLLOWING WARNING WHEN STARTING THE APPLICATION \*\*\*\***

C:\Development\TypeScript\MasteringTypeScript\ch11\angular-app>ng serve

√ Browser application bundle generation complete.

Initial Chunk Files | Names | Raw Size

vendor.js | vendor | 3.82 MB |

polyfills.js | polyfills | 315.34 kB |

styles.css, styles.js | styles | 287.06 kB |

main.js | main | 26.76 kB |

runtime.js | runtime | 6.85 kB |

| Initial Total | 4.45 MB

Build at: 2022-08-12T05:44:37.753Z - Hash: 0be64ae64179bc0d - Time: 7909ms

Warning: C:\Development\TypeScript\MasteringTypeScript\ch11\angular-app\src\app\app.component.ts depends on 'lodash'. CommonJS or AMD dependencies can cause optimization bailouts.

For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

\*\* Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ \*\*

√ Compiled successfully.

**\*\*\*\* SOLUTION Trial 1 as mentioned in link below – Replace** **lodash** **with** **lodash-es** **\*\*\*\***

[**https://stackoverflow.com/questions/62589229/angular-10-upgrade-fix-commonjs-or-amd-dependencies-can-cause-optimization-bai**](https://stackoverflow.com/questions/62589229/angular-10-upgrade-fix-commonjs-or-amd-dependencies-can-cause-optimization-bai)

**$ npm install lodash-es**

added 1 package, removed 1 package, and audited 926 packages in 3s

119 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

**$ npm uninstall --save lodash**

removed 1 package, and audited 926 packages in 2s

119 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

**\*\*\*\* PROBLEM PERSISTS. Trial 2 mentioned in the above link - Whitelist CommonJS dependency \*\*\*\***

[**https://angular.io/guide/build#configuring-commonjs-dependencies**](https://angular.io/guide/build#configuring-commonjs-dependencies)

**Update angular.json:**

"architect": {

"build": {

"builder": "@angular-devkit/build-angular:browser",

"options": {

"allowedCommonJsDependencies": ["lodash"]

}

}

}

**\*\*\*\* PROBLEM RESOLVED \*\*\*\***

# Angular and Reactive Forms

$ ng generate component components/login

**\*\*\*\* THROWS THE FOLLOWING ERROR WHEN GENERATING A COMPONENT with CLI \*\*\*\***

Schematic input does not validate against the Schema: {"styleext":"scss","name":"components/login","project":"angular-app"}

Errors:

Data path "" must NOT have additional properties(styleext).

Cause:

Previously when I migrated from CSS to SCSS, I added the following to the angular.json file

"projects": {

"angular-app": {

"projectType": "application",

"schematics": {

"@schematics/angular:component": {

"styleext": "scss"

}

},

As per the Documentation in the link below, the **“styleext”** property has been deprecated and has been replaced with simply **“style”**

[**https://github.com/angular/angular-cli/releases/tag/v9.0.0**](https://github.com/angular/angular-cli/releases/tag/v9.0.0)

"projects": {

"angular-app": {

"projectType": "application",

"schematics": {

"@schematics/angular:component": {

"style": "scss"

}

},

**\*\*\*\* That fixed the problem \*\*\*\***

**$ ng generate component components/login**

CREATE src/app/components/login/login.component.html (20 bytes)

CREATE src/app/components/login/login.component.spec.ts (592 bytes)

CREATE src/app/components/login/login.component.ts (272 bytes)

CREATE src/app/components/login/login.component.scss (0 bytes)

UPDATE src/app/app.module.ts (953 bytes)