Angular 18 Microfrontend Build Guide for Single SPA

This guide covers building an Angular 18 application as a microfrontend for Single SPA deployment via CDN, with minimal file output and style isolation.

Prerequisites

- Angular CLI 18+
- Node.js 18+
- single-spa-angular package

Initial Setup

1. Create New Angular Project

```bash
ng new my-microfrontend --routing=true --style=scss
cd my-microfrontend
```

2. Install Required Dependencies

```bash
# Single SPA dependencies
npm install single-spa-angular single-spa

# For style isolation
npm install -D postcss postcss-prefixwrap autoprefixer
```

Project Configuration

3. Configure angular.json (No Webpack Needed)

Replace the build configuration in `angular.json`:

```json
{
  "projects": {
    "my-microfrontend": {
      "architect": {
```

```
    "build": {
      "builder": "@angular-devkit/build-angular:browser",
      "options": {
        "outputPath": "dist",
        "index": "src/index.html",
        "main": "src/main.single-spa.ts",
        "polyfills": "src/polyfills.ts",
        "tsConfig": "tsconfig.app.json",
        "assets": [],
        "styles": ["src/styles.scss"],
        "scripts": [],
```

Content is user-generated and unverified.

```
    "build": {
      "builder": "@angular-devkit/build-angular:browser",
      "options": {
        "outputPath": "dist",
        "index": "src/index.html",
        "main": "src/main.single-spa.ts",
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