**Monorepos**

**A monorepo is a single git repository that holds the source code for multiple applications and libraries, along with the tooling for them.**

**Intro to Nx**

**Nx is a smart, fast and extensible build system with first class monorepo support and powerful integrations.**

**Angular standalone Repos**

**1. Creating a New Workspace**

npx create-nx-workspace@latest  
 **✔ Choose your style · integrated**

**✔ What to create in the new workspace · angular**

**✔ Repository name · myorg**

**✔Application name · store**

**✔ Default stylesheet format · css**

**✔ Enable distributed caching to make your CI faster · Yes**

1. **Generating a component for the store**

npx nx g @nrwl/angular:component shop --project=store

1. **Generating a component for the store**

**To create the cart and shared/ui libraries, use the @nrwl/angular:lib generator:**

npx nx g @nrwl/angular:library cart

npx nx g @nrwl/angular:lib shared/ui --buildable

You should now be able to see all three projects of our design:

store in the root

cart in cart

shared-ui in shared/ui

import { NgModule } from '@angular/core';

import { BrowserModule } from '@angular/platform-browser';

import { RouterModule } from '@angular/router';

import { SharedUiModule } from 'shared/ui';

import { AppComponent } from './app.component';

import { NxWelcomeComponent } from './nx-welcome.component';

import { ShopComponent } from './shop/shop.component';

@NgModule({

declarations: [AppComponent, NxWelcomeComponent, ShopComponent],

imports: [

BrowserModule,

SharedUiModule,

RouterModule.forRoot([

{ path: 'cart', loadChildren: () => import('@store/cart').then((m) => m.CartModule),}, { path: '\*\*', component: ShopComponent, }, ]),

],

providers: [],

bootstrap: [AppComponent],

})

export class AppModule {}

src/app/app.component.html

<router-outlet></router-outlet>

npx nx g @nrwl/angular:component banner --project=shared-ui --export

Then create a simple **Banner** component in the generated file:

shared/ui/src/lib/banner/banner.component.ts

import { Component, Input } from '@angular/core';

@Component({ selector: 'store-banner', templateUrl: './banner.component.html', styleUrls: ['./banner.component.css'], })

export class BannerComponent {

@Input() text = '';

}

npx nx g @nrwl/angular:component cart-route --project=cart

Add the Banner component to the cart route and link back to the main page:

import { SharedUiModule } from './../../../shared/ui/src/lib/shared-ui.module';

import { NgModule } from '@angular/core';

import { CommonModule } from '@angular/common';

import { CartRouteComponent } from './cart-route/cart-route.component';

import { RouterModule } from '@angular/router';

@NgModule({

  imports: [

    CommonModule,

    SharedUiModule,

    RouterModule.forChild([

      {

        path: '',

        component: CartRouteComponent,

      },

    ]),

  ],

  declarations: [CartRouteComponent],

})

export class CartModule {}

cart/src/lib/cart-route/cart-route.component.html

<store-banner text="Welcome to the cart." ></store-banner> <a routerLink="/">Continue Shopping</a>

src/app/shop/shop.component.html

<store-banner text="Here is a list of products to buy..." ></store-banner> <a routerLink="/cart">View Cart</a>

Npm start