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the previous section, let's walk in the anatomy of our corner application. Cli installation processes install many different files. Most of them can be safely ignored. At the root of the project we have three important folders and some important files: /src/ This is the most important folder. Here we have all the files that make our corner application. /e2e / This folder is for end-to-end testing of the application, written in Jasmine and run by the protractor e2e test cursor. Please note that you will not enter into details about the test in this post. nodemodules / NPM packages installed in the project with the npm installation command. package.json Like any modern web application, we need a package system and a package manager to handle all third-party libraries and modules that our app uses. Within this file, you will find all the dependencies and some other handy things like npm scripts that will help us a lot to development (grouping/training) workflow. tsconfig.json Master configuration file. It must be in the root path, as that's where the typescript compiler will look for it. Within the /src directory we find our raw, uncomposed code. This will carry out most of the work for your corner application. When we run ng serve, our code means in. /src gets packaged and compiled to the correct Javascript version that the browser understands (currently, ES5). This means that we can work at a higher level using TypeScript, but are compiled up to the oldest javascript format that the browser needs. Below this folder you will find two main folder structures. /app has all the items, modules, pages that you will build the app up. /environments this folder is the management of different environment variables, such as dev and prod. For example, we could have a local database for our development environment and a product database for the production environment. When we run ng serve we will use by default the dev env. If you want to run in production mode you need to add the flag --prod to the ng serve. index.html/ It is the application's host page, but you will not often modify this file, as in our case it only serves as a placeholder. All the scenarios and styles required for the application to work are going to be automatically intensified by the webpack grouping process, so you don't have to do this manually. The only thing that comes to my mind now, that you can include in this file, is a few meta tags (but you can also handle these through Angle as well). And there are other secondary and important folders/assets in this folder you will find images, sample json data, and any other information you may need in your application. Corner Best Practices: This application folder is the core of the project. Let's take a look at the structure of this folder so you have an idea of where to find things and where to add your own sections to customize this project to your specific needs. /shared SharedModule that lives in this folder exists to maintain common items, instructions, and pipes and share them with the modules that need them. It introduces the CommonModule because its component needs common instructions. You will notice that it re-exports other modules. If you review the application, you may notice that many components that require SharedModule instructions also use NgIf and NgFor from CommonModule and are bound to component properties with [(ngModel)], a directive in FormsModule. Modules that declare these components should import CommonModule, FormsModule, and SharedModule. You can reduce repetition by re-exporting CommonModule and FormsModule so that SharedModule importers receive free CommonModule and FormsModule. SharedModule can still export FormsModule without mentioning it in its imports. /styles Here you will find all variables, mixins, shared styles, etc. will make your app customizable and scalable. Maybe you don't know SASS? In short, it's a superset of CSS that will facilitate and accelerate your growth cycles incredibly. /services Here you will find all the services required in this application. Each service has only the functions associated with it. Other folders To obtain in modular code, we have created a folder for each item. Within these folders you will find every relevant file for the pages included in it This includes html for layout, sass for styles, and master page element. app.component.html This serves as the skeleton of the application. It usually has a <router-outlet> to render their paths and content. It can also wrap with content that you want to be on each page (for example, a toolbar). app.component.ts It is the corner element that provides functionality to the app.component.html file I just mentioned. app-routing.module.ts Here we define the main routes. These paths are registered in the Corner RouterModule in AppModule. If you use lazy sections, the child paths of other lazy sections are defined within those sections. app.module.ts This is the main section of the project that will bootstrap the application. As we proceed to this tutorial we will create more pages and perform basic navigation. A little more about Corner navigation has a specific section dedicated to navigation and routing, the RouterModule. With this section, you can create paths that allow you to move from one part of the app to another place or from one view to another. For paths to work, you need an anchor point or item in the user interface to assign actions (usually click items) to paths (URL paths). We use the routerLink directive for this purpose. For example, when the user clicks a category name in the user interface, angular, through the routerLink directive, knows that it must go to the following URL: {{category.title}} Next, you must assign URL paths to items. In the same folder as the root module, create a configuration file called app.routes.ts (if you don't already have one) with the following code. import { Routes } from '@angular/router'; export paths: Paths = [{ path: '', component: CategoriesComponent, resolution: { data: CategoriesResolver } }, { path: 'questions/about/:categorySlug', element: CategoryQuesComponent, resolution: { data: CategoryQuestionsResolver } }, { path: 'question/:questionSlug', element: QuestionAnswersComponent, resolution: { data: QuesionAnswersResolver } }]? For each path we provide a path (also known as a URL) and the item to be attributed to that path. The empty string for the CategoriesComponent path means that CategoriesComponent will be rendered when there is no URL (also known as the root path). Note that for each route we also have a determination. The use of a determination in the navigation paths allows us to pre-bring the data of the before the path is activated. Using the solutions is a very good practice to make sure that all the necessary data is ready to use our components and to avoid the appearance of a blank item while waiting for the data. For example, we use a CategoriesResolver to bring the list of categories. As soon as the charges are ready, we'll activate the route. Note that if observable resolution is not complete, <router-outlet> </router-outlet> It won't go on. Finally, the root unit must also be aware of the paths we set above. Add a reference to the paths in the AppModule import property. importing { paths } from './app.routes'; imports: [RouterModule.forRoot(paths, { useHash: false })], Notice how we use forRoot (or ultimately loadChildren) methods for RouterModule (documents explain the difference in detail, but for now just know that forRoot should only be named once in your application for top-level routes). Angle Hardware 2 vs ngx-bootstrap There are a few libraries that provide high-level elements that allow you to quickly create a nice interface for your application. These include modals, pop-ups, cards, lists, menus, etc. They are reusable UI components that serve as building blocks for your mobile application, consisting of HTML, CSS and sometimes JavaScript. Two of the most used UI component libraries are Angle Hardware and ngx-bootstrap. Angular material is the official corner UI library and provides tons of ingredients. On the other hand, ngx-bootstrap provides a range of angular components made over the Twitter Bootstrap frame. In this corner tutorial we are going to use angular material, but feel free to choose the one that best suits your needs, since it is both super full and powerful. In this angular example of application, we have different layouts. For each view we need different UI elements. The following is a short list of the most important items we used for each view and a link to the details of the implementation of that view. View categories A list that shows the different angular concepts you need to learn. Hardware Components: List item for Chip for category labels Show category questions A view to display all questions in a specific category. Hardware Items: List item for Button Item for the Tropical Boundary Answers view A view to display all the answers to a specific question. Hardware Components: Catalog item for Answer List Button Item Data Dialog Item for Modals New Question and New Modals Answer Modals to create/update questions and answer hardware components: Dialog item to manage exclusive We also used the hardware toolbar corner component for toast navigation. Please feel free to dig the library of UI components that angular material has on their component documentation page. Adding a backend to the corner example Our project Different alternatives to background API data consolidates The key to an evolving application is to create reusable services to manage all data calls to your backend. As you may know, there are many ways when it comes to data handling and backend implementations. In this tutorial we will explain how to consume data from a static json file with virtual data. In the next tutorial Learn how to build an average stack application you will learn how to build and consume data from a REST API with Loopback (a node.js box perfectly perfect for the REST API) and MongoDB (to store the data). Both implementations (static json and remote backend API) need to be concerned about the application side of the problem, how to handle data calls. This works the same and is independent of how you apply the backend. We will talk about models and services and how they work together to achieve this. We encourage the use of models in conjunction with services to handle data all the way from backend to presentation stream. Domain domain models are important for defining and enforcing business logic in applications and are especially important as applications become larger and more people work in them. At the same time, it is important to keep our applications dry and maintainable by moving logic from the components themselves and into separate categories (models) that can be called. A modular approach like this makes the business logic of our app reusable. To learn more about this, please visit this great post on angular 2 domain models. Data Services Corner enables you to create multiple reusable data services and add them to the components that need them. The data access redesigner in a separate service keeps the component lean and focuses on supporting the view. It also makes it easier to test the component unit with a virtual service. To learn more about this, visit the documentation in corner 2 about services. In our case, we have set a model for the categories of questions data we pull from the static json file. This model is used by categories.service.ts. in category.category.model.ts export class CategoryModel { slings: string; title: string; image: string; description: string; tags: Array<Object> } //in categories.service.ts getCategoryes(): Promise<CategoryModel[]> { return this.http.get('./assets/categories.json').toPromise().then(res => res.json() as CategoryModel[]) in categories.resolver.ts import { Injonn } from '@angular/core'; import { Resolve } from '@angular/router; import { CategoriesService } from './services/categories.service. @Injectable() CategoriesResolver Export Category Implements Resolve<any> { Build (Private CategoriesService: CategoriesService) { resolve() { Return New Promise((Resolve, rejection) => default: { let crumb = { uri: '/', tag: 'Categories' } }; //get categories from local json file this.categoriesService.getCategories() .then(categories => { return resolve({ categories: categories, breadcrumbs: }); }, err => { return resolve(null); }); }); } Every time we add a new service remember that the corner injector does not know how to create this service by default. If we ran our code now, Angular would fail with a mistake. After creating services, we need to teach the corner injector how to do this service by registering a service provider. According to the angular documentation page for dependency injection there are two ways<any> <CategoryModel[]> <Object> <Object> the service provider: in the component itself or in the module (NgModule). In our case, we register all services in app.module.ts //in app.module.ts @NgModule({ statements: [AppComponent, CategoryComponent, CategoryQuesComponent, NewQuestionModalComponent, NewAnswerModalComponent, UpdateAnswerModalComponent, DeleteAnswerModalComponent], imports: [RouterModule.forRoot(paths, { useHash: false })], SharedModule], entryComponents: [], providers: [CategoriesService, QuestionsService, CategoryQuesationsResolver, CategoriesResolver, QuestionAnswersResolver], bootstrap: [AppComponent] }) AppModule export category { } One side note on the importance of dependency injection from point of view software architecture principles: Remember that you just mentioned that we have injected data services into the items that need them? Well, this concept is called Injection Kit and it is extremely important to learn more about it. Do we have new () Services? No way! This is a bad idea for several reasons, including: Our component needs to know how to create the Service. If we ever change the manufacturer of the Service, we will have to find every place we create the service and fix it. Running repair code is error-prone and adds to the weight of the test. We create a new service every time we use new ones. What if the service needs to save the results and share this cache with others? We couldn't do that. We lock the Accessory (where we have a new service) into a specific implementation of the Service. It will be difficult to change implementations for different scenarios. Can we operate offline? Are we going to need different virtual versions under testing? It's not easy. We understand that. We really do. But it is so ridiculously easy to avoid these problems that there is no excuse to do it wrong. Fear of loss? Subscribe to our Special Newsletter! Bulletin!

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