


# Angular Modules and the @NgModule Decorator



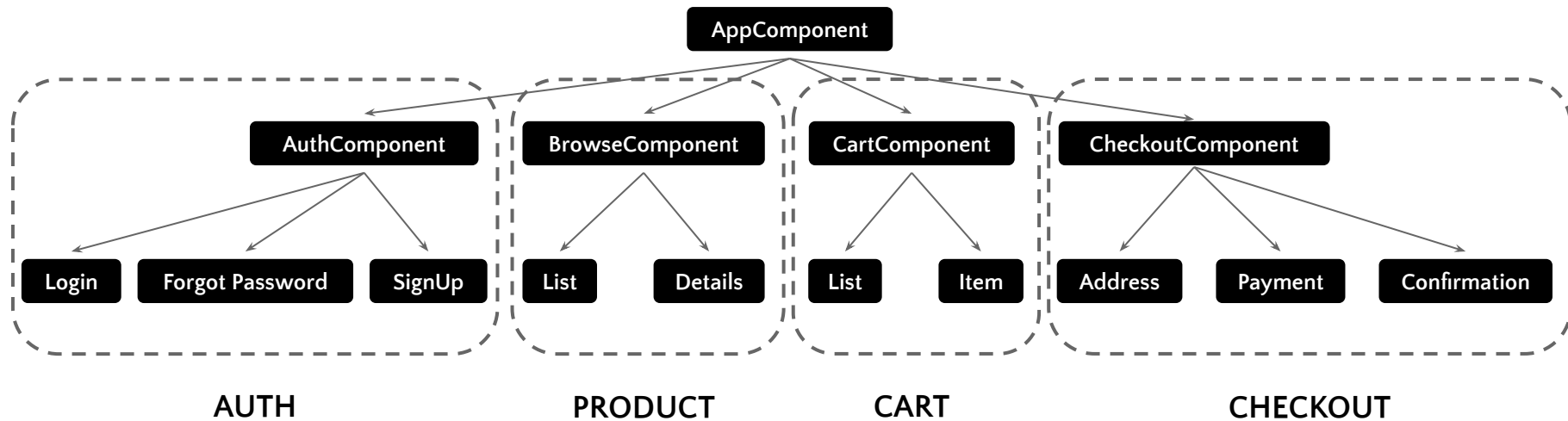


“Modules are to an Angular  
App what the 7 Kingdoms are  
to Westeros”

George R. R. Martin

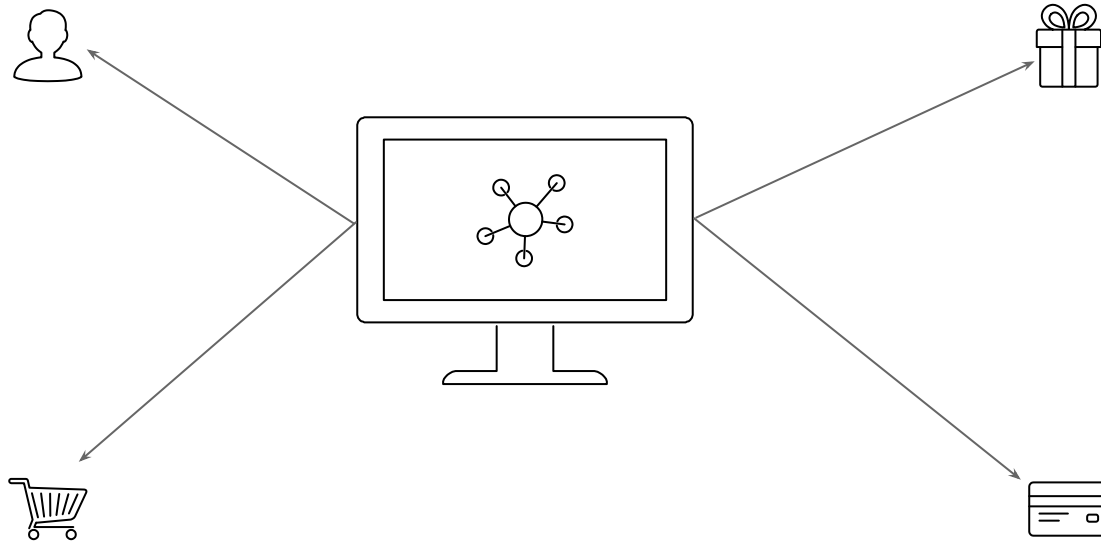


# App as a Tree of Components



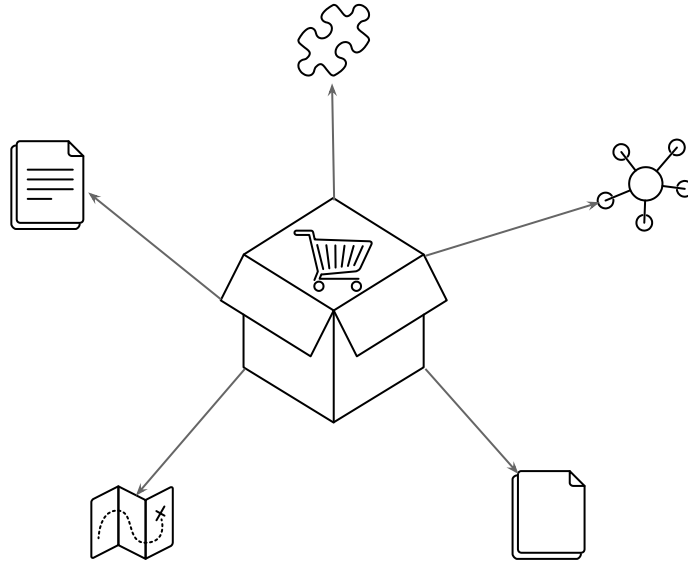


# Overall App Architecture





# Module





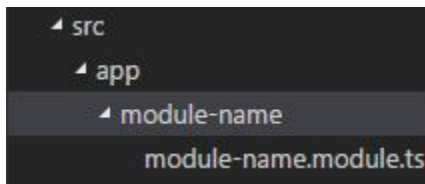
## Angular Module

- Cohesive block of code dedicated to an application domain, a workflow, or a closely related set of capabilities
- Angular apps are modular.
- Angular has its own modularity system called **NgModules**.
- At least one NgModule class, the root module.
- Conventionally named **AppModule**.
- Modules are a great way to organize an application and extend it with capabilities from external libraries.
- Many Angular libraries are modules (such as **FormsModule**, **HttpClientModule**, and **RouterModule**).
- Many third-party libraries are available as NgModules (such as **AngularMaterial**, **Ionic**, **AngularFire**).



## Creating a Module

- ◉ Recommended to use **Angular CLI**.
- ◉ **ng g m module-name**
- ◉ module-name.module.ts created inside module-name folder in the app folder. Something like this:



- ◉ Depending on the version that you're on, you might also receive a message.

```
installing module
create src\app\module-name\module-name.module.ts
WARNING Module is generated but not provided, it must be provided to be used
```





app.module.ts x



```
1 import { BrowserModule } from '@angular/platform-browser';
2 import { NgModule } from '@angular/core';
3
4 import { AppComponent } from './app.component';
5 import { CoreModule } from './core/core.module';
6 import { SharedModule } from './shared/shared.module';
7 import { AppRoutingModule } from './app-routing/app-routing.module';
8
9 @NgModule({
10   declarations: [ AppComponent ],
11   imports: [ BrowserModule, CoreModule, SharedModule, AppRoutingModule ],
12   exports: [],
13   entryComponents: [],
14   providers: [],
15   bootstrap: [AppComponent]
16 })
17 export class AppModule { }
```





*What are these declarations, providers,  
imports, exports, bootstrap, and  
entryComponents?*



# declarations

Next Video



## Credits

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Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by SlidesCarnival
- Photographs by Unsplash