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WEB 425 Angular with TypeScript

Discussion 1.1 Modules

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Angular modules are used primarily for documentation and for organizing the view of the application. But Angular modules are also needed to define a context for compiling templates. Angular modules are needed for template parsing as well as to clarify which components and directives are meant to be used publicly and which are internal implementation details (Angular University, 2023).

An Angular module is useful for splitting an application into smaller bits to be able to load them separately and to create libraries of components that can be easily imported into other applications (Angular University, 2023). Angular uses a modularity system called NgModules which are containers for cohesive blocks of code that are dedicated to an application domain, workflow, or other related capabilities (Angular University, 2023). Angular applications should have at least one NgModule class which is the root module. This root module is known as the AppModule which is contained in the file app.module.ts. In order to launch the application, the root NgModule has to be bootstrapped. This NgModule is defined by the class @NgModule() (Angular University, 2023). Within the declarations array, the list of the components, directives, and pipes that are part of the module can be found. To import other modules, they should be listed within the imports array. Within the providers array, the list of services that are part of the module can be found. Angular modules help define a public API for functionality as well as aid with the dependency injection configuration of the application. Angular modules help with enabling fast and mobile-friendly applications. Angular modules are needed to enable ahead of time compilation and lazy loading (Angular University, 2023).

With lazy loading, if the application that is being worked on is larger, the modules can be split into smaller feature modules or even bundle views together into bigger feature bundles (Chris Kohler, 2021). With this, smaller bundle sizes are worked with, but still allows for individuals to have a clear structure.

Angular modules help organize the application into cohesive blocks of functional code. Each block provides a specific functionality or feature so everything is put into a block that is similar to each. This helps make the maintenance for the code easier and increases the reusability of the code.

References

Angular University. (2023, January 20). *Angular modules and NgModule - Complete Guide*. Angular University. <https://blog.angular-university.io/angular2-ngmodule/>

Chris Kohler. (2021, July 5). *Angular modules best practices 2021*. Angular Modules Best Practices 2021. <https://christiankohler.net/angular-modules-best-practices-2021>