Component And Module

The applications in Angular follow modular structure. The Angular apps will contain many modules, each dedicated to the single purpose. Typically module is a cohesive group of code which is integrated with the other modules to run your Angular apps.

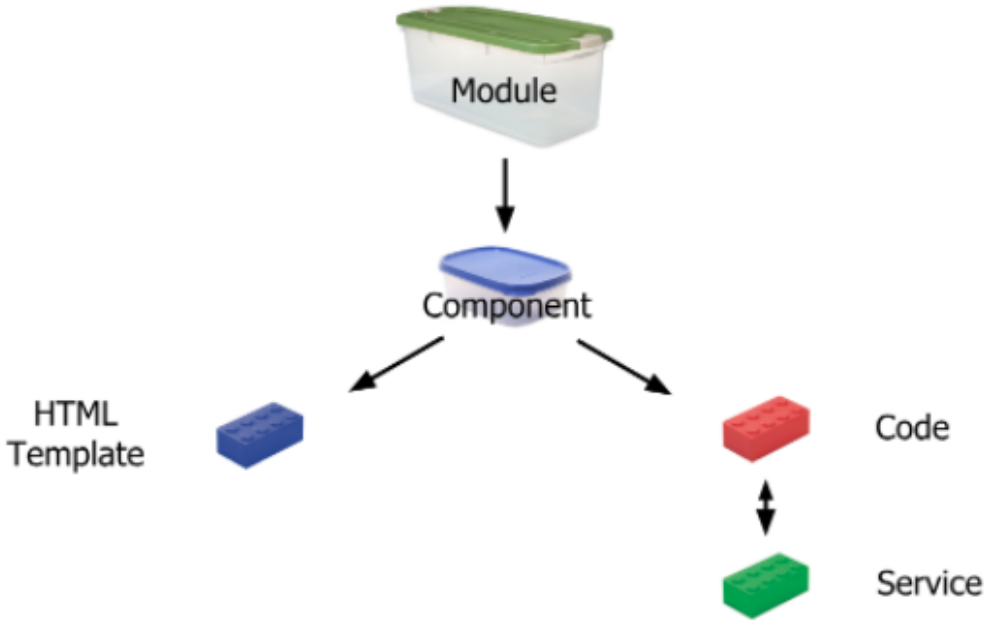
A module exports some classes, function and values from its code. ***The Component is a fundamental block of Angular and multiple components will make up your application.***

A module can be a library for another module. For instance, the angular2/core library which is a primary Angular library module will be imported by another component.

Components control views (html). They also communicate with other components and services to bring functionality to your app.

Modules consist of one or more components. They do not control any html. Your modules declare which components can be used by components belonging to *other* modules, which classes will be injected by the dependency injector and which component gets bootstrapped. Modules allow you to manage your components to bring modularity to your app.

Module	Component
A module instead is a collection of components, services, directives, pipes and so on.	A component in Angular is a building block of the Application with an associated template.
Denoted by @ngModule	Denoted by @Component
The Angular apps will contain many modules, each dedicated to the single purpose.	Each component can use other components, which are declared in the same module. To use components declared in other modules, they need to be exported from this module and the module needs to be imported.



Simplest Explanation:

Module is like a big container containing one or many small containers called Component, Service, Pipe

A **Component** contains :

- HTML template or HTML code
- Code(TypeScript)
- Service: It is a reusable code that is shared by the Components so that rewriting of code is not required
- Pipe: It takes in data as input and transforms it to the desired output