Nest JS

Progressive Nodejs framework

UniCourt

What is NestJS?

- A progressive Node.js framework for building efficient, reliable, and scalable server-side applications.

- NestJS is an open-source Node.js backend framework, based on Express.js, that takes advantage of both TypeScript and JavaScript.

- The current stable version is 8.4.7

- Building blocks of NestJS :

  - ❖ Controllers
  - ❖ Providers
  - ❖ Modules

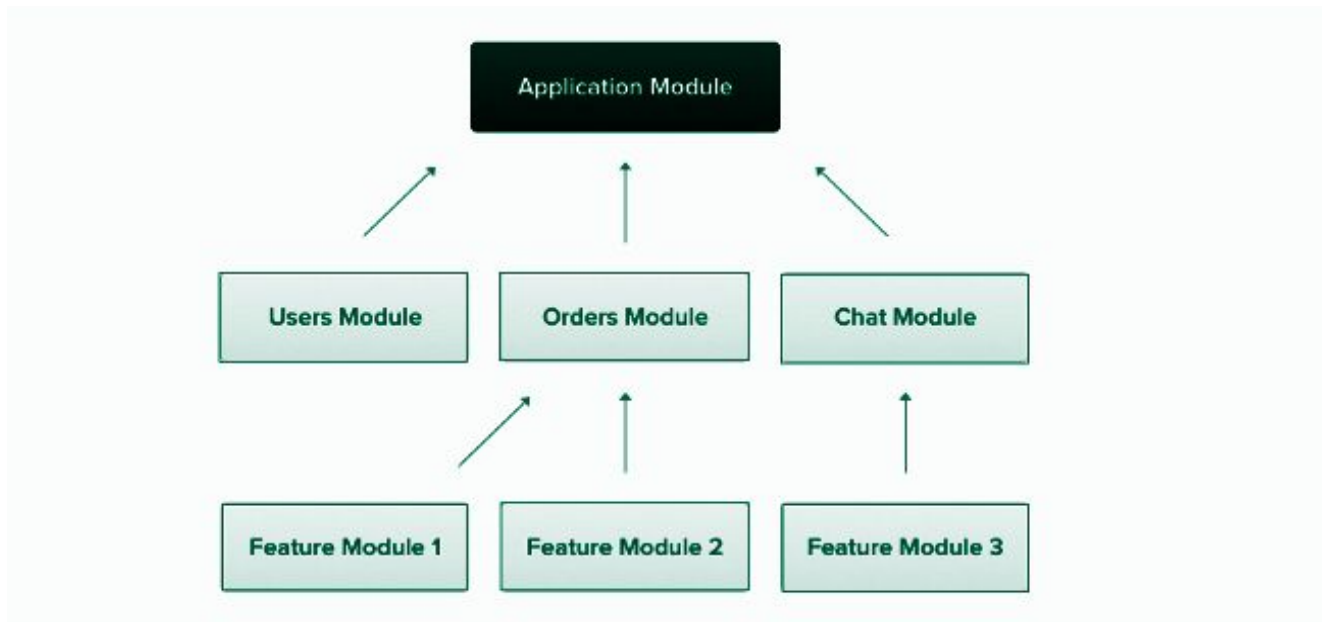NestJS Documentation : https://docs.nestjs.com/

NestJS vs Express

- NestJS is opinionated follows principle
- Follows MVC(Model View Controller) software design pattern
- NestJS is entirely written in TypeScript
- NestJS CLI (Command Line Interface) comes with a default testing environment which is configured with Jest for UNIT testing
- Complex and large scale application

- Unopinionated which means it doesn't have a set of pre-defined rules
- No strict MVC structure
- Makes less efficient
- Need to write seperate code for UNIT testing
- Small and mid-scale application

Reference: https://www.geeksforgeeks.org/expressjs-vs-nestjs-5-differences-that-you-should-know/

Why NestJS ?

- NestJS is heavily influenced by **Angular**, **React** and **Vue** and offers dependency injection right out of the box.
- Powerful **Command Line Interface (CLI)** to boost productivity and ease of development
- Can be easily integrated with common technologies and concepts like **TypeORM**, **Mongoose**, **GraphQL**, **Logging**, **Validation**, **Caching**, **WebSockets** and much more
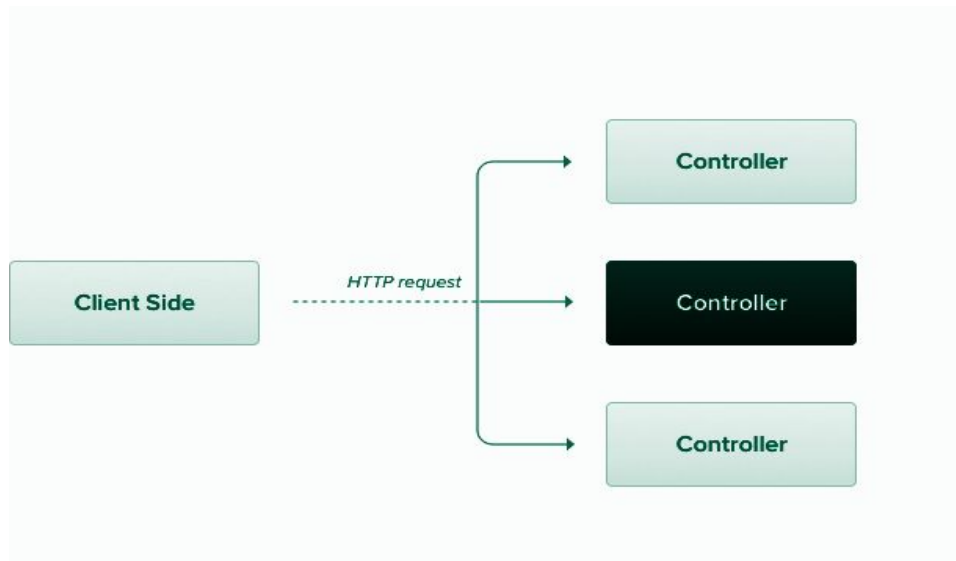- Easy **unit-testing** applications

A module is a class with a **@Module()** decorator that organizes the application structure components.
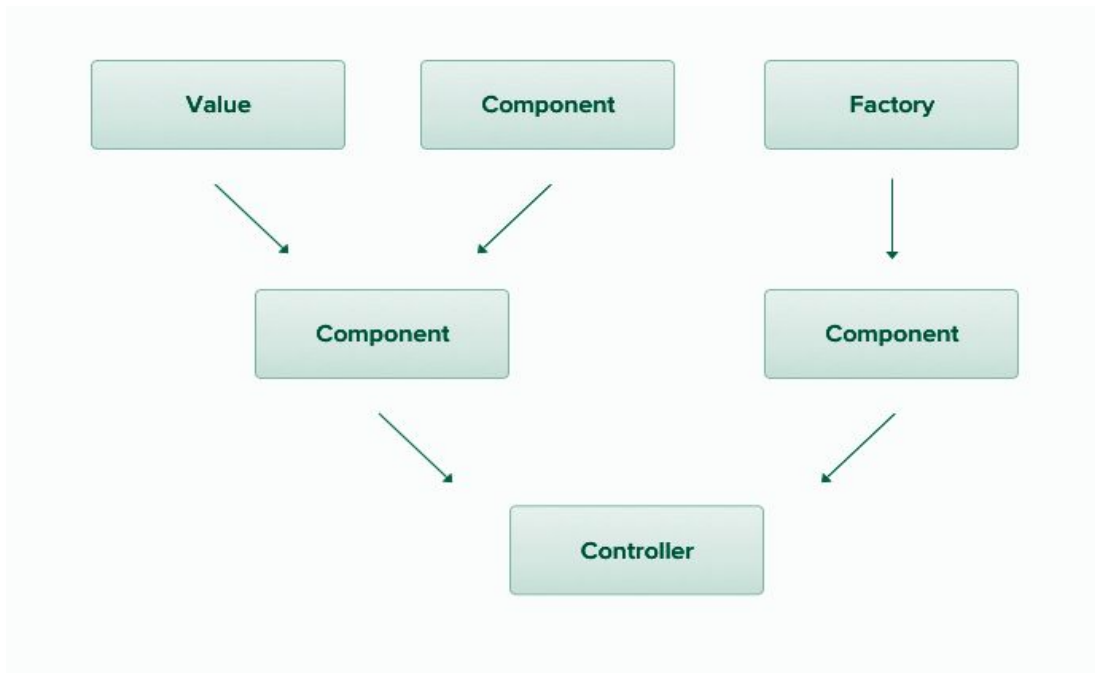
Controllers

Responsible for handling incoming request & Returning responses to the client.

Documentation: https://docs.nestjs.com/controllers

Providers

A provider is a plain JavaScript class with an @Injectable() decorator that can inject dependencies.

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