

NestJS

Solution for clean node.js architecture

Skopje, November 2022

}

Who are we ?

```
\bullet \bullet \bullet
                                               Loka.com
const engineer = 'Nikola Kusibojovski'
const company = 'Loka'
const companyDetails = {
  id: 1,
  name: 'Loka',
  website: 'https://loka.com/',
  headquarters: 'USA',
  founded: 2004,
  location: ['USA', 'Macedonia', 'Portugal', 'Columbia' ],
  specialities: [ 'Web Development', 'Mobile Development', 'Data Science', 'Machine
                     Learning', 'Artificial Intelligence']
```

Backend Development

What is most important when creating a web application from scratch looking from the backend perspective?





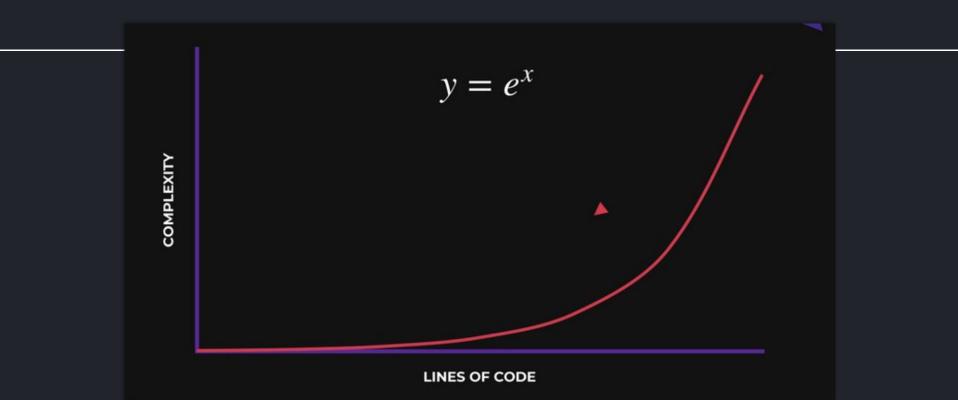


maintainability? performance? simplicity? scalability? productivity?

L⊙K∕I

Why?

Because of **SIMPLICITY**



Most of the Node.js frameworks are



Unopinionated



Without predefined "software architecture"



Complex for writing unit tests



Don't support Typescript by default

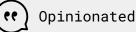


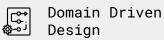
"Everything" is a middleware



NestJS is a possible solution











Follows Angular way

Ŵ MVC ready ▶● Easy integration o e with OpenApi

SOLID principles

GraphQ1



Written in Typescript



Microservices

H Websockets



Command-line interface tool

We need to choose between







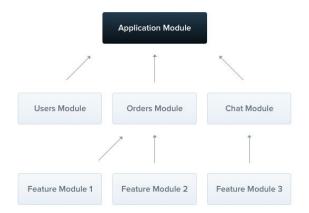
Nest JS Architecture

Nest provides an out-of-the-box application architecture which allows developers and teams to create highly testable, scalable, loosely coupled, and easily maintainable applications.



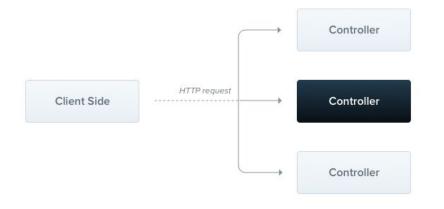
Modules

A module is a class annotated with a @Module() decorator. The @Module() decorator provides metadata that Nest makes use of to organize the application structure.



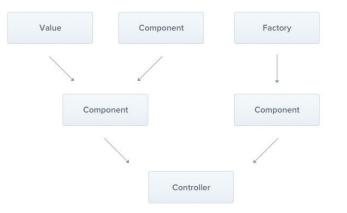
Controllers

Controllers are responsible for handling incoming requests and returning responses to the client.

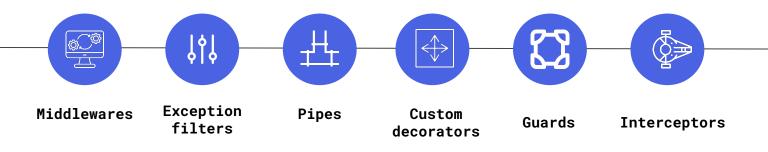


Providers

Providers are a fundamental concept in Nest. Many of the basic Nest classes may be treated as a provider – services, repositories, factories, helpers, and so on. The main idea of a provider is that it can be injected as a dependency; this means objects can create various relationships with each other, and the function of "wiring up" instances of objects can largely be delegated to the Nest runtime system.



What else ?





Thank you!

Let's talk.



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