Nestjs Framework

Nestjs is a framework for building efficient, scalable, and maintainable **Node.js** server-side applications.

Nestjs provide application architecture, configurations, and the layer of abstraction above common **Node.js** web frameworks with freedom of customization to create applications. The architecture is heavily inspired by **Angular**.

Prerequisites

JS Javascript

TS Typescript

Rxjs (optional)

Nodejs

HTTP SERVER

Client-Server Arch

REST API

MVC (optional)

WEB FRAMEWORK

Express (default)

Fastify (optional)

📌 We can use other Web Frameworks also beacuse NestJs is platform-agnostic.

📖 Course Content

NESTJS FUNDAMENTALS

Controllers & Routing
Providers
Modules
Guards
Pipes
Middewares
Interceptors
Exception Filters
Configuration

DATABASE

MongoDB & Mongoose
TypeORM

AUTH

Cookies & Sessions
Passportjs Integration
RBAC
CBA

CACHING

Application level caching
Endpoints Caching
Redis Store Integration

FILES

File Streaming
File Upload - Multer
File Upload - S3

USEFUL PACKAGES

HTTP Module - Axios
Cors
Compress
Helmet
CSRF & Rate Limiter

LOGGING & DOCUMENTATION

Application Logger
Morgan
Winston
URL Versioning
Header Versioning
Media Type Versioning
OpenAPI - Swagger

TASK SCHEDULING

Crons
Events
Queues

MVC

Template engines Integration
Handlebars, PUG, EJS

SSE - SERVER SENT EVENTS

WEB SOCKETS

CQRS

MICROSERVICES

Nestjs Microservices Apps
Redis Transport Integration
Kafka Transport Integration

HYBRID APPS

✔️ Important Note

This course is about **Nestjs** framework fundamentals and
how to use it to build server-side applications and logic.

We are not going to learn xyz library and package
but how to integrate xyz library into **Nestjs**.

We will see the integration with **Passportjs**, **Mongoose**,
TypeORM, **Winston** but not going to learn these libs.

This course aims to teach you the **Nestjs** ecosystem
so that you can create applications based on the **Nestjs** arch.

About the **WebSockets**, **Microservices**, and **CQRS** this course
gives you the solid understanding of these patterns and technologies
but they are themself are bigger concepts to learn.

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