

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)
- (IS) 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.



#### **NESTJS FUNDAMENTALS**

Controllers & Rounting
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

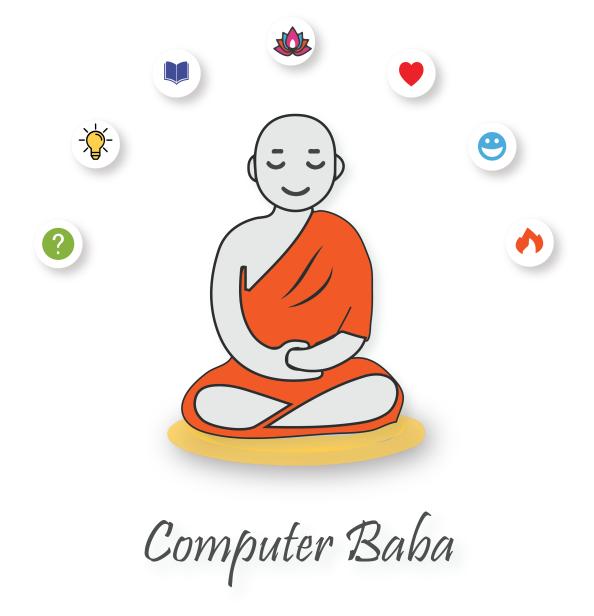
This course is about **Nestjs** framework fundamentals and how to use it to build server-side applications and logic.

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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