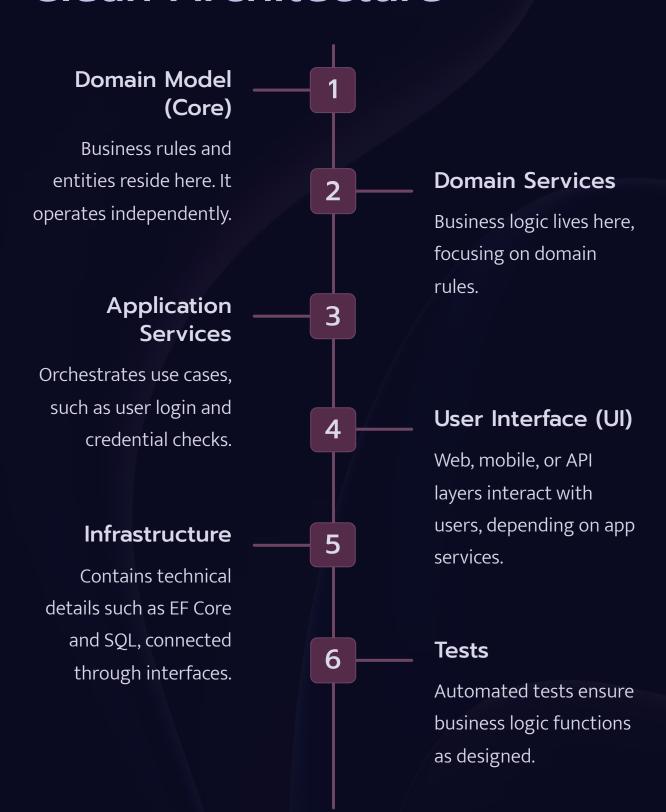
.NET Core 9.0 Training Program

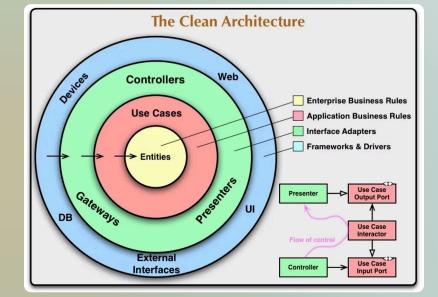
From Fundamentals to Real-World Implementation

by Poonam Suryavanshi



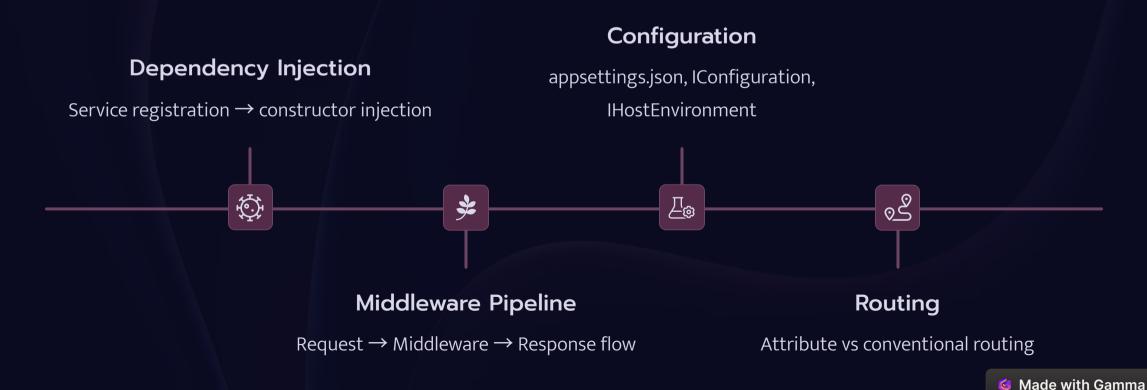
Clean Architecture







ASP.NET Core 9.0 Essentials







Project Structure

Web App + Persistence Layer



EF Core Essentials

Entity, DbContext, Migration flowchart



CRUD Implementation

Entity \rightarrow Interface \rightarrow Service \rightarrow Controller



Automapper

DTO Entity mapping

CQRS & MediatR

CQRS Concept

Query (Read) vs Command (Write)

Separates data models for reads and writes

MediatR in Action

Controller \rightarrow MediatR \rightarrow Handler \rightarrow

Service

Decouples request senders from

handlers

Event Sourcing

Store events as source of truth

Rebuild state from event history

ASP.NET Core API

Swagger UI

Interactive documentation

Test endpoints directly

Logging with Serilog

Structured logging

Multiple output targets

API Versioning

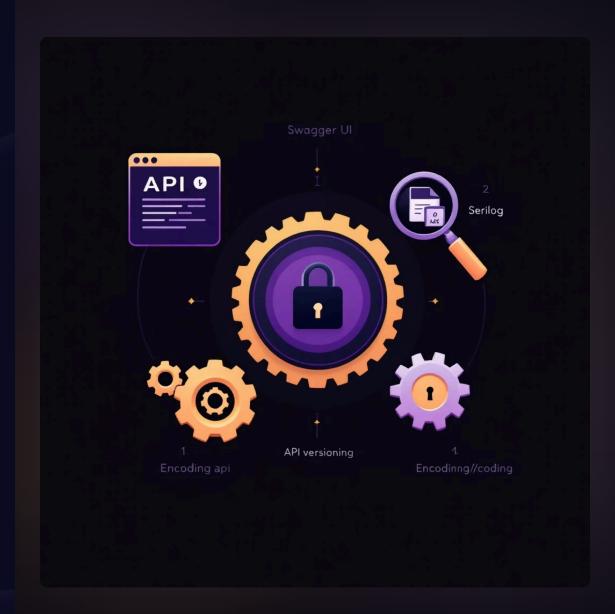
Support multiple API versions

V1/V2 Controller structure

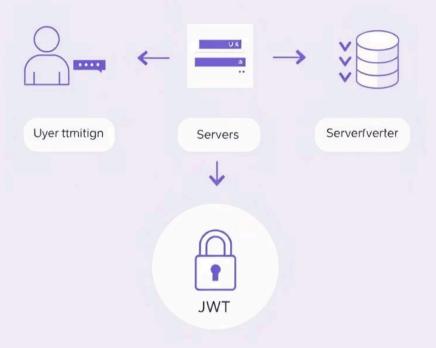
Encoding/Decoding

Base64 process

Secure API payloads



JWT



Authentication & Authorization with JWT

How JWT Works

Login \rightarrow Token Issued \rightarrow Protected API call

Identity & Token Management

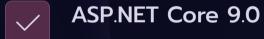
ASP.NET Identity + JWT Bearer pipeline

Implementing JWT

AddAuthentication(), AddJwtBearer()



Summary & Feedback



DI, Middleware, Configuration, Routing

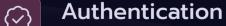


MediatR, Swagger, Logging, Versioning

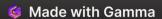


EF Core 9.0

Code First, CRUD, Automapper, Repository



JWT, Identity, Token Management



Thank You!

