

50+ packages that you shouldn't miss!

TOP NUGET PACKAGES FOR .NET DEVELOPERS

segregated by use-cases

The Ultimate List

Are you using these packages?



mapping

To encapsulate your domain values, you need libraries to map the domain objects into DTOs or vice versa. Which mapping libraries do you use? Mapster seems performant and easy to setup.

- Automapper
- **Mapster**
- Mapperly



logging

Serilog is hands down the best logging package for .NET applications. However, there are other packages as well in this space.

- Serilog
- NLog
- log4net



ORM

Which Database mappers do you use? Entity Framework is the most essential package in this space if you use an RDBMS SQL instance like PostgreSQL or MySQL. It is catching up with Dapper as well for RAW Queries.

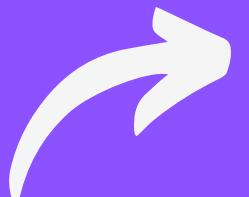
- Entity Framework Core
- Dapper



NoSQL

Chances are that you are already using NoSQL databases in your system. Which of these packages do you use?

- MongoDB.Driver
- AWS DynamoDB Packages
- Azure Document DB
- RavenDB.Client



CSV, Excel & Stuff

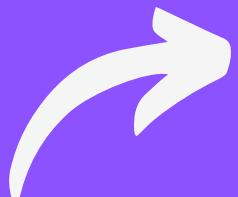
- CsvHelper for io operations on CSV files.
- EPPlus for excel related operations.
- DocX for Word document operations.
- FastReport, DinkToPdf for PDF generations.



HTTP Clients

Calling an external API from your C# code is a pretty common use case. Choose your client properly for making HTTP requests.

- RestSharp
- Polly – comes with built-in fault-handling.
- HttpClientFactory
- Refit



validation

It's pretty important to validate your incoming API Requests from the client. There are only 2 major players in this space. Use DataAnnotations for simple projects, and use Fluent Validations for mid-larger projects.

- DataAnnotations
- FluentValidations



Mail

You can't go wrong with this. Microsoft themselves recommend these packages for sending mails.

- MailKit
- MimeKit



API Gateway

For building microservices, API gateways are pretty essential. Which package do you use? YARP is really easy to setup and work with.

- Ocelot
- YARP
- KONG



Testing & Fake Data

An essential stage in your entire development process. Which packages do you use to write your unit, integration tests? Also, you need some packages to generate fake data for your tests. Bogus is sweet for that!

- NUnit
- FluentAssertions
- xUnit
- Moq
- FakerEasy
- Bogus



task schedulers

Running Tasks in the background based on schedules is a very common use case in any project. Which packages do you use for this? For simple jobs, the built-in `IHostedService` is pretty sufficient.

- Hangfire
- Quartz.net
- `IHostedService` Interface



messaging / queues

For event-driven applications, this is pretty important.

MassTransit is perfect for distributed applications to send messages over brokers like RabbitMQ, Kafka.

- RabbitMq Client
- Kafka Client
- MassTransit
- MediatR for command/query dispatching



auth

How are you securing your .NET Services? How do you generate solid JWTs and maintain your users?

- OpenIddict
- Identity Server
- Microsoft Identity
- Other OAuth protocol packages?



caching

Never ignore caching implementations. It makes your application serve requests in an efficient way reducing costly database calls and improving response times.

- For POCs and simple use cases, you can use the InMemory caching package.
- For distributed applications, use the StackExchange.Redis package, or use the Distributed Caching package.
- EasyCaching is cool!

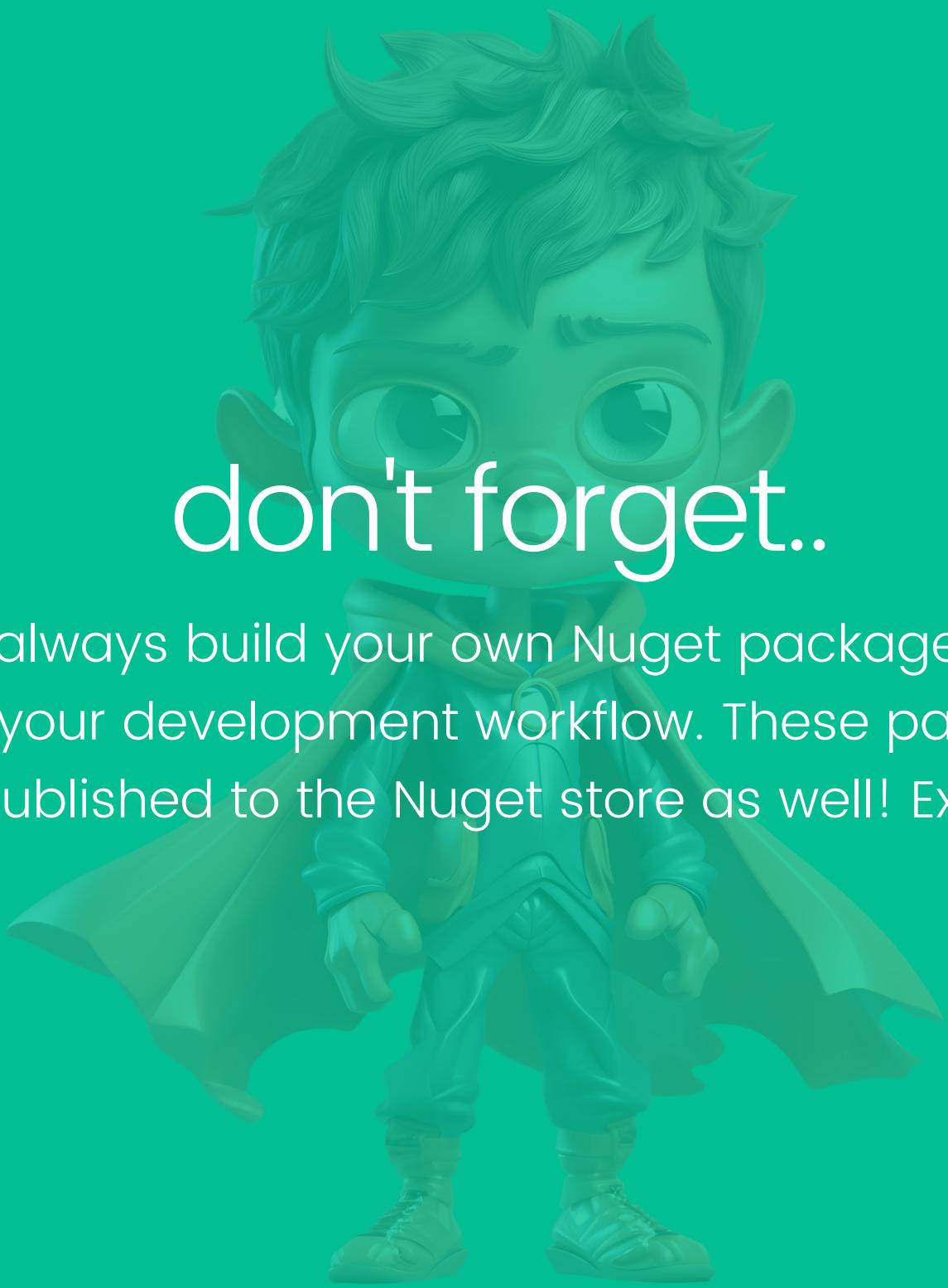


misc

How are you securing your .NET Services? How do you generate solid JWTs and maintain your users?

- For profiling your application, use MiniProfiler
- For real-time messages, use SignalR
- Don't forget to use the Healthchecks package!
- Swagger is a must-have!
- You need the MediatR Nuget package for CQRS!
- Newtonsoft for JSON stuff.
- Spectre.Console create cool console application logs.





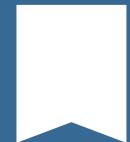
don't forget..

You can always build your own Nuget packages to improve your development workflow. These packages can be published to the Nuget store as well! Explore this as well.



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