

* Rate Limiting

A

.NET 6.0

→ Rate limiting is the process of restricting the number of requests for a resource within a specific time window.

Why

- ① Generate Revenue
- ② Helps against malicious bot attacks

Method - 1

→ Install Package : `AspNetCoreRateLimit`

There are 2 types of rate limit middleware supported by this package.

- 1 → Ip based rate limiting using `IpRateLimitMiddleware`
- 2 → using `ClientRateLimitMiddleware`

→ add configuration for IP rate limit in `appsettings.json`.

see code -

"Endpoint": "*" // for all

→ add services to container

see code

→ add middleware

app.UseIpRateLimiting();

#Method-2 Using Custom Middleware

Scorp
Notebooks

③ .NET 7.0 +

→ Built in rate limiter middleware

→ 4 rate limit algos:

- ① Fixed window: add a fixed time window
- ② Concurrency: it just limits the no. of concurrent requests.
- ③ Sliding window, Token bucket

→ Add service
see code

→ Add `useRateLimiter()` middleware

→ Add attribute

`[EnableRateLimiting("fixed")]`
on the action method/controller.