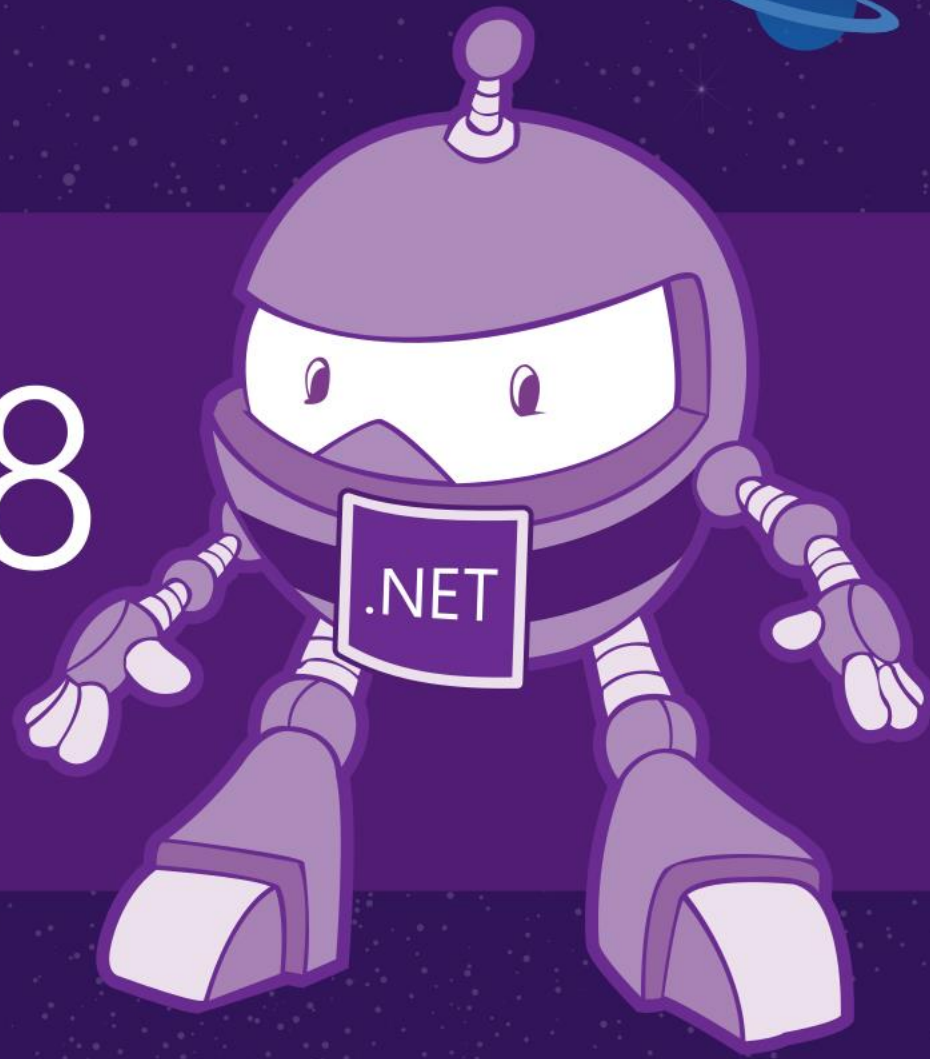


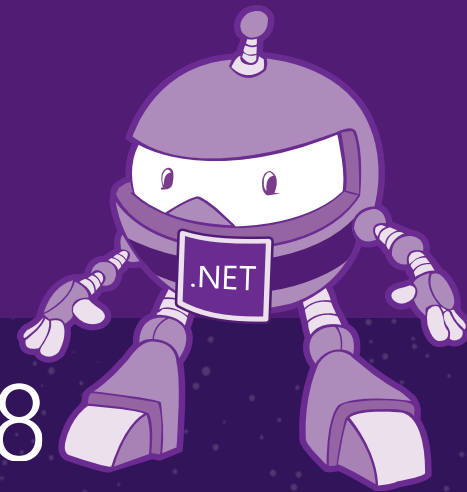
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Modular Web Applications with ASP.NET Core

Thien Nguyen



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About me

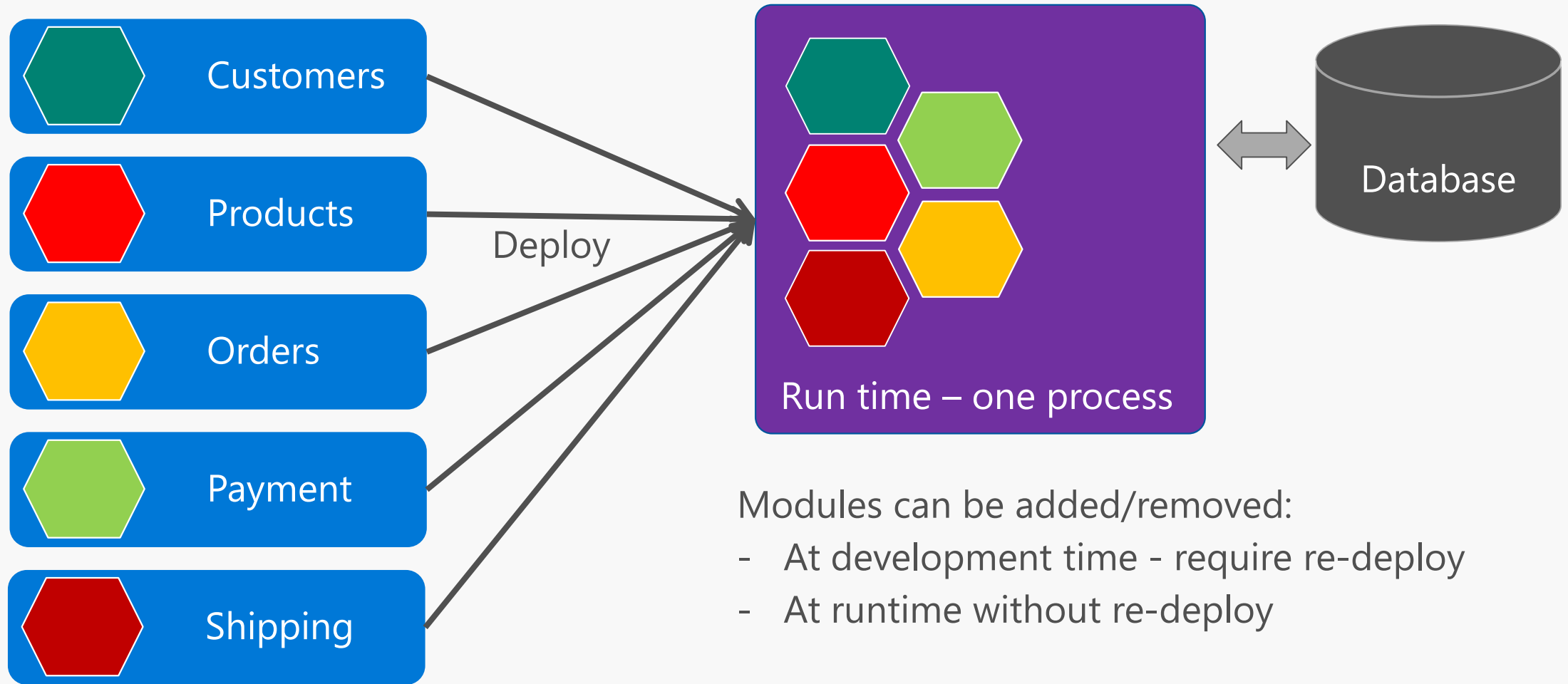
- Native name: Nguyễn Lê Quỳnh Thiện
- From: Vietnam
- Engineering Manager at NashTech
- Founder of SimplCommerce
- Microsoft MVP
- @thiennlq



Agenda

- An overview of Modular Architecture
- How we apply Modular Architecture in SimplCommerce
- The bright future

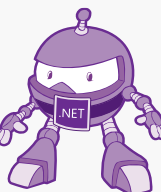
Modular Architecture



Development time – separated projects

Modules can be added/removed:

- At development time - require re-deploy
- At runtime without re-deploy



Modular - Benefits

- Separation of Concerns
- Easier to add, delete or modify modules without affecting to others
- Modules can be easily developed in parallel
- Increase readability and maintainability

Modular - Challenges

- No native support
- Hard to separate modules properly
- Harder to manage dependences of modules

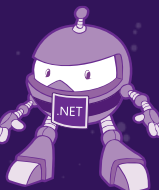
SimplCommerce

- <https://github.com/simplcommerce/SimplCommerce/>
- The first commit is on Jan 13, 2016, target to .NET Full Framework 4.6
- May – 2016 switch to .NET Core 1.0 (RC2)
- Now 1.0-RC, .NET Core 2.1 and going to 1.0 RTM soon
- 1502 stars, 519 forks and 29 contributors

Demo

How we apply modular architecture in
SimplCommerce

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SimplCommerce – Modular Limitations

- Add or remove modules will require the website to restart
- Don't support side by side dependency

The bright future

**Nate McMaster**

BlogProjects

.NET Core Plugins

Introducing an API for loading .dll files (and their dependencies) as 'plugins'

By Nate McMaster | July 25, 2018

<https://natemcmaster.com/blog/2018/07/25/netcore-plugins/>

Enable unloading of AssemblyLoadContext #18476

Merged janvorli merged 24 commits into dotnet:master from janvorli:collectible-assemblies a day ago

Conversation 72

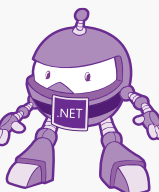
Commits 24

Checks 0

Files changed 59

<https://github.com/dotnet/coreclr/pull/18476>

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Thank you!

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