Improving developer experience in Open Source Projects

How to ease contribution and management of your next big idea



Hi! I'm Tommaso Bailetti





@Tbaile



Who is Nethesis?

We're an open source company, find us on GitHub!



https://nethserver.org



https://nethesis.it



We even have an international community!



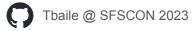
https://community.nethserver.org

Do we receive meaningful contributions?

No*

Easy to say that, but how hard it is to contribute?





Nobody knew for sure, so I've done some digging



Everything is blurry, and not connected

Some repos don't have even READMEs

"What is this project for, again?"

"You wanna know why X? Browse the code"

Documentation



Why is it so hard to write documentation?

You need to write it.



Why is it so hard to write documentation?

However, a nice helper came recently to the rescue: Al!*







^{*}please check the output, hallucinations are around the corner.

Why do people ask always the same questions?



Why do people ask always the same questions?

You are probably the problem of your documentation.

Sadly, it's a fact!



Why do people ask always the same questions?

You know the software, others don't. You will let out something that others don't know about at all.

Try to let others inexperienced people write it or get feedback and questions from them, will help the onboarding and general feeling of the project by a lot.

Honorable mention: outdated docs

"I DO AS DOC SAYS, BUT IT DOESN'T WORK"



Honorable mention: outdated docs

This is one of the most infuriating one, be wary of this issue!

People will most likely drop the project without even telling you that they found the issue.

Outdated docs: best case scenario



What can reduce our time to code?

Virtualization!



From zero to hero, time is important

Does your project require external deps?

Is yes, how many? Which tool is used to install them?

Do you support every OS/Arch?

This is too much time consuming.

What can reduce our time? Containers!

Containers are one of the most popular development environments out there.

They remove mostly of the prerequisites to run your project, even helps you mimic a full production environment!







Containers are small for me, what are the alternatives?

There are cases where you need a full system to run testing (systemd, packet manager, and so on...).

Build your own ISO (just for PROs)

Use a tool like Vagrant!



What else?

The *unforeseeable* jab: Processes



Processes...?

This last step is probably the most important one.

Defining what code style your project has, what linting, how to contribute or open an issue and even how to handle releases is crucial to allow others to understand what to do and when.







Processes!

Once you've set all, you can even set back and allow some CI/CD to check this work for you, without even telling the contributors that something is wrong.

Less communication is the most effective communication!







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DOCUMENTATION



The PHP Framework for Web Artisans

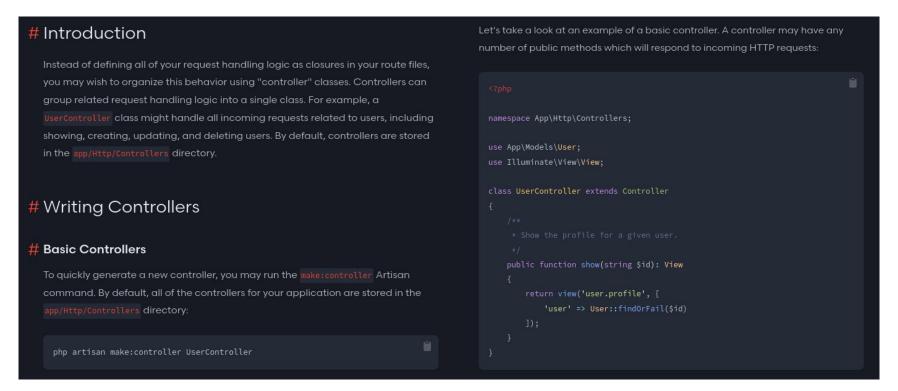
Laravel is a web application framework with expressive, elegant syntax. We've already laid the foundation — freeing you to create without sweating the small things.



WATCH LARACASTS







#Laravel & Docker

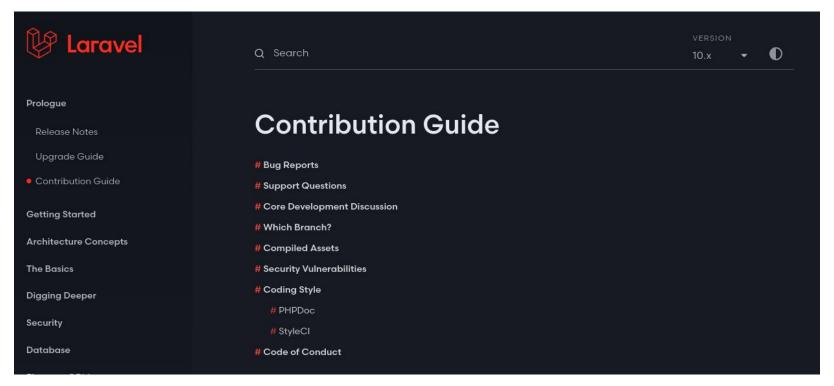
We want it to be as easy as possible to get started with Laravel regardless of your preferred operating system. So, there are a variety of options for developing and running a Laravel project on your local machine. While you may wish to explore these options at a later time, Laravel provides <u>Sail</u>, a built-in solution for running your Laravel project using <u>Docker</u>.

Docker is a tool for running applications and services in small, light-weight "containers" which do not interfere with your local machine's installed software or configuration. This means you don't have to worry about configuring or setting up complicated development tools such as web servers and databases on your local machine. To get started, you only need to install Docker Desktop.

Laravel Sail is a light-weight command-line interface for interacting with Laravel's default Docker configuration. Sail provides a great starting point for building a Laravel application using PHP, MySQL, and Redis without requiring prior Docker experience.

Laravel Homestead

- # Introduction
- # Installation & Setup
 - # First Steps
 - #Configuring Homestead
 - # Configuring Nginx Sites
 - #Configuring Services
 - # Launching The Vagrant Box
 - # Per Project Installation
 - # Installing Optional Features
 - # Aliases
- # Updating Homestead
- # Daily Usage
 - #Connecting Via SSH
 - # Adding Additional Sites
 - # Environment Variables



Thank you for your attention!

See you next time and have a nice evening!

