

Monica

Personal Relationship Management

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FOSDEM 2019



1. Presentation of Monica

2. What we are trying to do



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2. What we are trying to do

Idea



- Remember everything about your contacts
 - Personal information (family, age, habits, ...),
 - Activities,
 - Notes,
 - Etc.
- Aimed to those who lack memory

Where to store this data?

- At some big companies
 - Facebook, Google: it's a no.
- In a file (text or sheet editor)
 - Not queryable
 - Not optimized for this use case
- Another contact manager

The answer is Monica

What is it for?

- It is for the contacts you care about
 For whom you want to remember things
 → About your **friends**, colleagues, and more.

What is it not?



- Not a social network
 - Data is only for yourself, they will never been shared with other users of one instance, nor marketing or ad services.
- Not a file hosting service
 - There are better software out there.
- Not a robot with some A.I.
 - Reminders are sent because you want it.





- Manage contacts and relationships (address book)
- Birthdays
- Contact information: email, phone, address, etc.
- Tag contacts
- Avatar
- Favorite a contact





- Add reminders for birthdays or to stay in touch
- Tasks
- Notes
- Activities or Life events
- Debts
- Gifts

Features

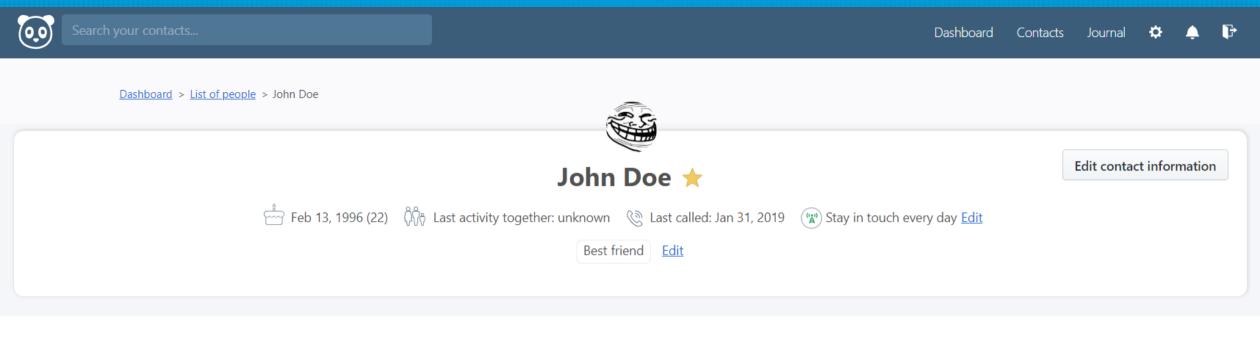


- Geolocalize addresses
- Weather information
- Upload documents and photos
- Export as a vcard
- Conversations from social media or SMS (not emails)
- Phone calls
- Personal journal

Features



- REST Api
- 15 locales
- Multi-Factor authentication (2FA/U2F)
- Import/Export



LOVE RELATIONSHIPS Add		Life events (0)	Notes, reminders,	Photos	
FAMILY RELATIONSHIPS	Add note				h
Add	Yeah				
OTHER KIND OF RELATIONSHIPS Add	★ Sep 19, 2018				<u>Edit Delete</u>
PETS Add	Conversations	d conversations yo	u have with John on so	cial media, S	Log conversation
	Log conversation				

Still some work to do !

0.0

- Better UX
- CardDAV and CalDAV
 - Almost there, we need feedback !
- Some refactorization
- Notion of groups
- Notion of « me »
- Security
 - End-to-end encryption

The mobile application

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- Huge demand by all users
- We used to have a mobile app called Chandler but its maintainer is no longer in the project

Now we need a super skilled person to continue this work.



How to use it

- Our hosted version on app.monicahq.com
 - No user tracking (no Google Analytics or facebook widget)
- Or install it, like 8000+ others
 - Your own server
 - From the sources
 - From Docker (~780K pulls)
 - YunoHost
 - Heroku
 - Etc.



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What it is made from



- Laravel framework
- Blade and Vue.js pages
- Css

• Love and passion

An Open Source app

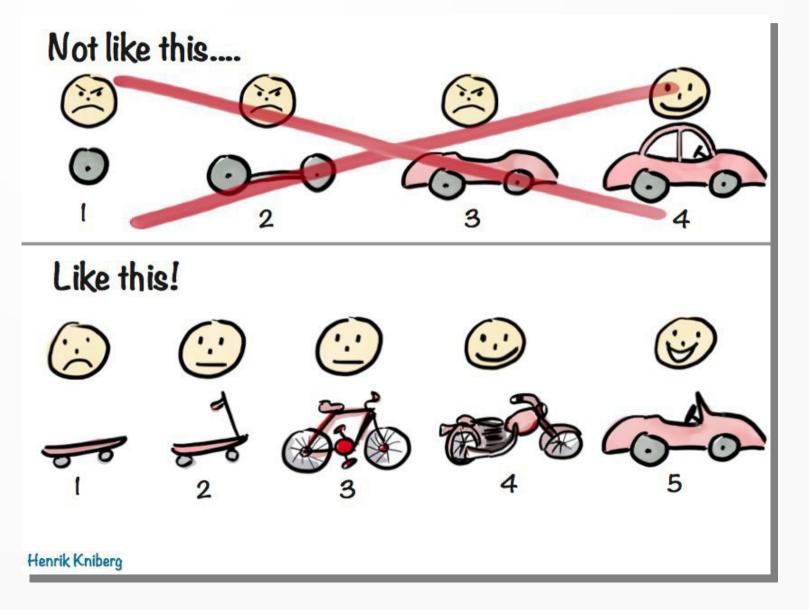


- Most voted story on Hacker news in 2017
- Most php trending repo on github for 2 months (2018)
 - 6500 stars on github
- Open source Rookie of the Year 2018

- +140 contributors
- ~27K lines of code

Our development process model

- Ship little features, often
- Improve it over mutliple iterations



Work on an Open Source project 🕑

- A lot of github issues
 - Lesson: don't agree to everything, do what you want to do with your product
- Accept all Pull requests ?
 - Yes / no
 - Every update on the code will be babysitted by the owner
 - Some times we have to reject a pull request, but it's heartbreaking

What we are trying to do

- 1. An application for everyone
 - Nice UI, UX
 - Support every locales
- 2. An application fully tested (well, almost fully)
 - With a nice CI
- 3. An application with which we can have fun in the development



2.1 An application for everyone 2.2 A fully tested application 2.3 An application we have fun developing



An application for everyone

Simple Fast Reliable

An application for everyone



- Everyone means everywhere
- We support 15 locales, with country specificities → ar cs de en es fr he hr it nl pt pt-BR ru tr zh

Internationalisation

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- Source language: English
- Translation with an external tool
 - Crowdin has been really helpful for us!
- Special attention to
 - Localise everything!
 - Lang specificity: date format, money value, plural forms
 - Country specificity: temperature scale, metric system
 - Collation (sorting)
 - Direction: left-to-right/right-to-left

Problem with ltr/rtl

Adding html "dir" attribute not solves everything:

<!DOCTYPE html>
<html lang="he" dir="rtl">

• Example:

– English	Search your contacts	Dashboard Contacts Journal 🔅 🌲 🕞
	Last consulted: RF TD	Add someone
– Hebrew	🕞 🌲 🖨 לוח מחוונים אנשי קשר יומן	חיפוש באנשי הקשר שלך
	להוסיף מישהו	דD RF יעוץ אחרון:
– Reason:	<pre>.header-nav { text-align: right;</pre>	

How to handle ltr/rtl

- 1. Detect language and direction
 - 12 languages with rtl

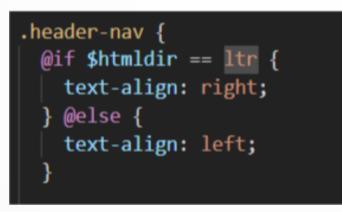
• 2. Two css files



How to handle ltr/rtl



• 3. Use \$htmldir prop



• 4. Use right css file

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2.1 An application for everyone 2.2 A fully tested application 2.3 An application we have fun developing

An application fully tested

What you need:

- 1. Sources
- 2. Tests
- 3. Run tests with code coverage
- 4. Reporting

An application fully tested

- 1. Sources \rightarrow Github
- 2. Tests → Unit/Browser tests
- 3. Run tests with code coverage
 - → Continuous Integration: CircleCI
 - → Unit tests: phpunit + phpdbg
 - → Browser test: Laravel Dusk + "live code coverage"
- 4. Reporting
 - \rightarrow Sonarcloud

Current coverage

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- ~27K lines of code
- 68% php code coverage



Our current Cl

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- Formerly TravisCI
- Now CircleCI
 - Workflow is great !
 - Using docker container is stable
 - We even created our own docker image: centralperk

CircleCI workflow



Build and test workflow



• Deploy workflow (master)



Tests : gain some time

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Before

- Personnal computer, no xdebug: ~2:30
- On CI (phpdbg): ~4:20
- Optimisation, from Taylor Otwell

Add this on CreatesApplication trait:

// set the bcrypt hashing rounds (the minimum allowed).
// this reduces the amount of cycles needed to manage users.
Hash::setRounds(4);

- Personnal computer, no xdebug: ~1:40
- On CI (phpdbg): ~3:00 → 30% faster !

C







- C StyleCI
- \delta Sonarcloud







→ Long live OpenSource !

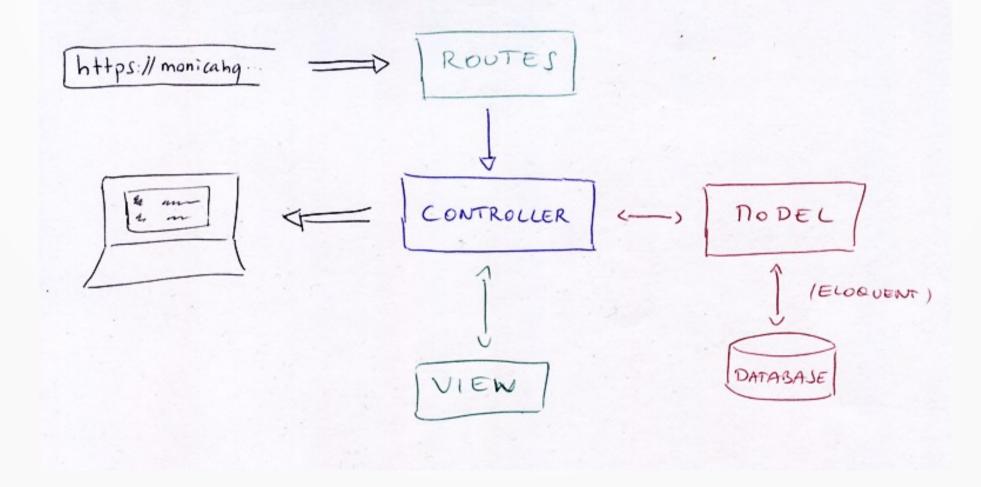


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Architectural structure



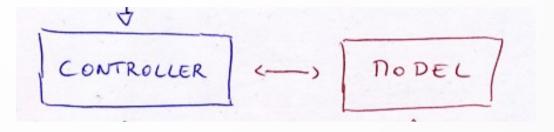
Laravel application



Introducing Services



- Use case:
 - View Controller
 - Api Controller



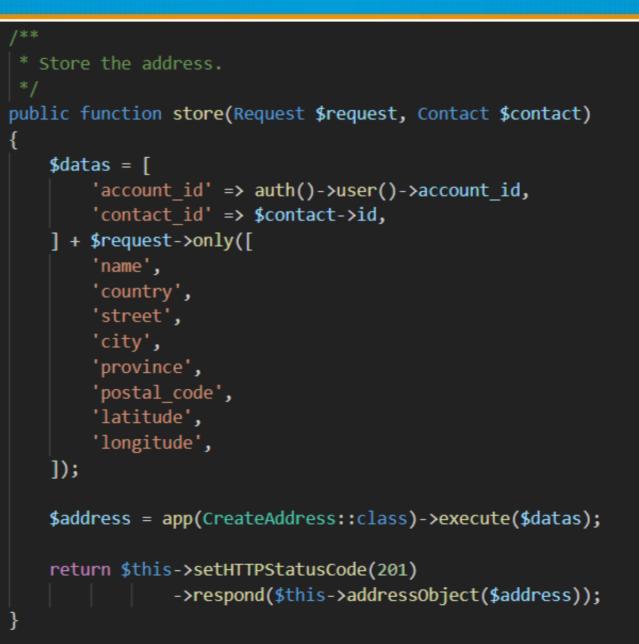
- → they need the same code to call the CRUD operations
- Solution: using **services**
 - logic is handle by the service
 - easier to maintain

Service : Example

class CreateAddress extends BaseService /** * Create an address. * @param array \$data * @return Address public function execute(array \$data) : Address \$this->validate(\$data); Contact::where('account id', \$data['account id']) ->findOrFail(\$data['contact id']); \$place = \$this->createPlace(\$data); return Address::create(['account id' => \$data['account id'], 'contact id' => \$data['contact_id'], 'place id' => \$place->id, 'name' => \$this->nullOrValue(\$data, 'name'),]);



Service: View Controller





Service : Api Controller



/**

```
* Store the address.
```

```
* @param Request $request
* @return \Illuminate\Http\Response
```

```
public function store(Request $request)
```

return new AddressResource(\$address);

You want to help?

- We always need arms and brains
 - Code
 - Discuss features
 - UX
 - I18n (on Monica's crowdin project)



Mobile application



monicahq.com

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