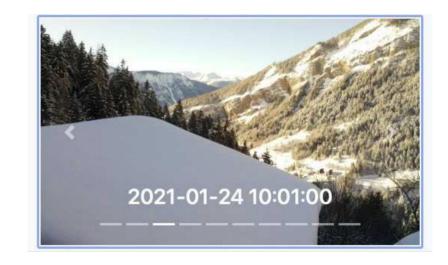
Don't give up





«Dorben»

- No power supply
- But a small solar panel
- Every hour a picture
- NFA
 - Energy efficient
 - Hosting backend at existing Hoster



Implementation

- Hoster just supports php
- Decision for «Lumen» as Framework
- Followed «cookbook» to realize rest api
- Just Integration tests
- No real «Unit»-Tests

Result

- Long methods
- Strong coupling to «Lumen»
- No tests without database
- Not motivated for more features

```
$query = Picture::query();
   ($cameraid != mull) {
    Squery = Squery->where('camera id', '=', Scameraid):
   ($request->hasAny([
        :: QUERY PARAMETER DAY,
        ::OUERY PARAMETER WEEK.
        :: QUERY PARAMETER MONTH,
        ::OUERY PARAMETER YEAR
1)) {
       ($request->has(self::QUERY_PARAMETER_DAY)) {
        Sday = new \DateTime($request->input(self::QUERY PARAMETER DAY));
        Sfrom = Sday:
        sto = $day;
    } else if ($request->has(self::QUERY_PARAMETER_WEEK)) {
        $day = new \DateTime($request->input(self::QUERY_PARAMETER_WEEK));
        $from = (clone $day)->modify('monday this week');
$to = (clone $day)->modify('sunday this week');
        ise if ($request->has(self::QUERY PARAMETER MONTH)) {
        $day = new \DateTime($request->input(self::QUERY PARAMETER MONTH));
        $from = (clone $day)->modify('first day of this month');
        Sto = (clone $day)->modify('last day of this month');
        if ($request->has(self::QUERY_PARAMETER_YEAR)) {
        $day = new \DateTime($request->input(self::OUERY PARAMETER YEAR));
        $from = (clone $day)->modify('first day of january');
$to = (clone $day)->modify('last day of december');
    $query = $query->where('taken_at', '>=', $from->format('Y-m-d') . ' 00:00:00:00')
        ->where('taken at', '<=', Sto->format('Y-m-d') . ' 23:59:59');
  (Srequest->has(self::OUERY PARAMETER FROM)) {
    $from = new \DateTime($request->input(self::QUERY_PARAMETER_FROM));
    $query = $query->where('taken_at', '>=', $from);
  ($request->has(self::QUERY_PARAMETER_TO)) {
    $to = new \DateTime($request->input(self::QUERY_PARAMETER_TO));
    $query = $query->where('taken at', '., $to);
   ery = $query->orderBy('taken_at', 'ASC');
```

After Refactoring

- (Nearly) independent implementation
- Simple, readable Unit-Tests
- Readable code
- Possibility to reuse code
- Found fun again for more features

```
private const QUERY_MAPPING = array(
    self::QUERY_PARAMETER_DAY => 'byDay',
    self::QUERY_PARAMETER_WEEK => 'byWeek',
    self::QUERY_PARAMETER_MONTH => 'byMonth',
    self::QUERY_PARAMETER_YEAR => 'byYear',
    self::QUERY_PARAMETER_FROM => 'from',
    self::QUERY_PARAMETER_TO => 'to',
);
```

```
$queryBuilder = PicturesQueryBuilder::create();
$queryBuilder->byCamera($cameraid);
foreach (self::QUERY_MAPPING as $parameter => $method) {
    $this->createQuery($request, $parameter, $queryBuilder, $method);
}
$query = $queryBuilder->build(Picture::query());
```

Lessons learned

- Study the programming language helps
- Be careful when using a «cookbook»
- It's ok to have several attempts

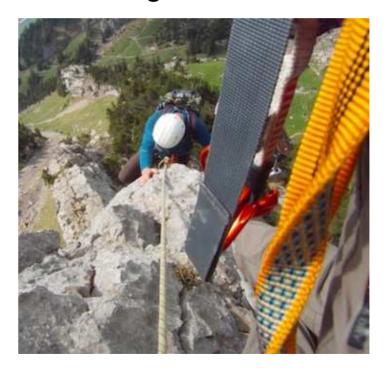
Lessons learned

- TPP helped me a lot (i.e. rule 7: scalar → array)
- Implementing on a framework may be easy, but there are costs
- I need to practice more

Don't just stay on the treadmill...



... go outside



Downloaded from https://www.sportxx.ch/de/p/463026200000/tunturi-t80-treadmill-endurance at 2021-01-25 07:15