#Träwelling Präsentation 2021

#Agenda

- ➔ Das DHBW-Träwelling Team
- ➔ Projekt Management
- ➔ Use-Cases & RUP Workflow
- ➔ Demo
- ➔ Architektur
- ➔ Testing

Das DHBW-Träwelling Team

#Das DHBW-Träwelling Team

➔ besteht aus:

- Levin Baumann Project Manager, Implementer, Test Designer, Tester
- Thomas Englert Implementer, Test Designer, Tester
- Marius Holwein Implementer, Test Designer, Tester

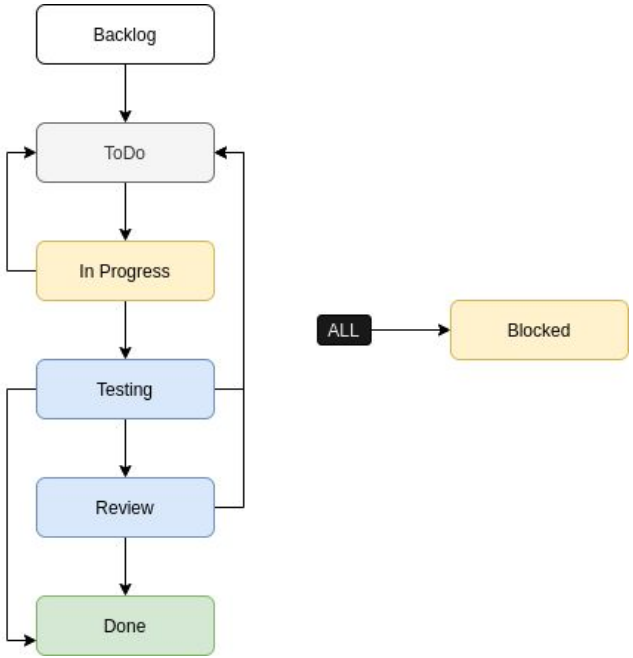
➔ haben Erfahrung mit:

- PHP mit Framework Laravel
- modernem Webdesign
- Github und automatisierten Test-Pipelines
- dem Träwelling Projekt

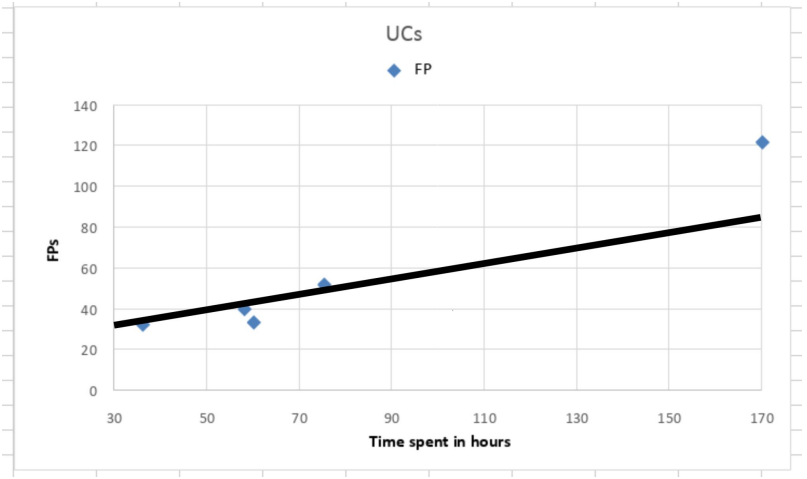
Projekt Management

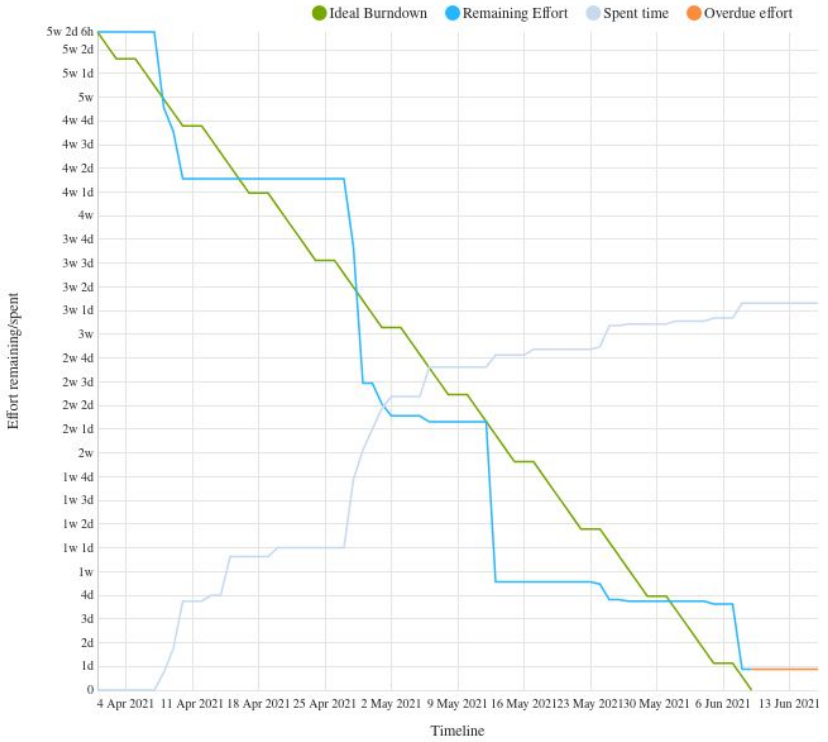
#Scrum

- ➔ Arbeiten in zwei Wochen Sprints
- ➔ Einteilung der Tickets nach Kanban
- ➔ Youtrack als Trackingplattform



#Burndown


UCs
FP
140
120
100
80
60
40
20
0
FPs
30
50
70
90
110
130
150
170
Time spent in hours


Ideal Burndown
Remaining Effort
Spent time
Overdue effort
Effort remaining/spent
5w 2d 6h
5w 2d
5w 1d
5w
4w 4d
4w 3d
4w 2d
4w 1d
4w
3w 4d
3w 3d
3w 2d
3w 1d
3w
2w 4d
2w 3d
2w 2d
2w 1d
2w
1w 4d
1w 3d
1w 2d
1w 1d
1w
4d
3d
2d
1d
0
4 Apr 2021
11 Apr 2021
18 Apr 2021
25 Apr 2021
2 May 2021
9 May 2021
16 May 2021
23 May 2021
30 May 2021
6 Jun 2021
13 Jun 2021
Timeline

#Risk Management

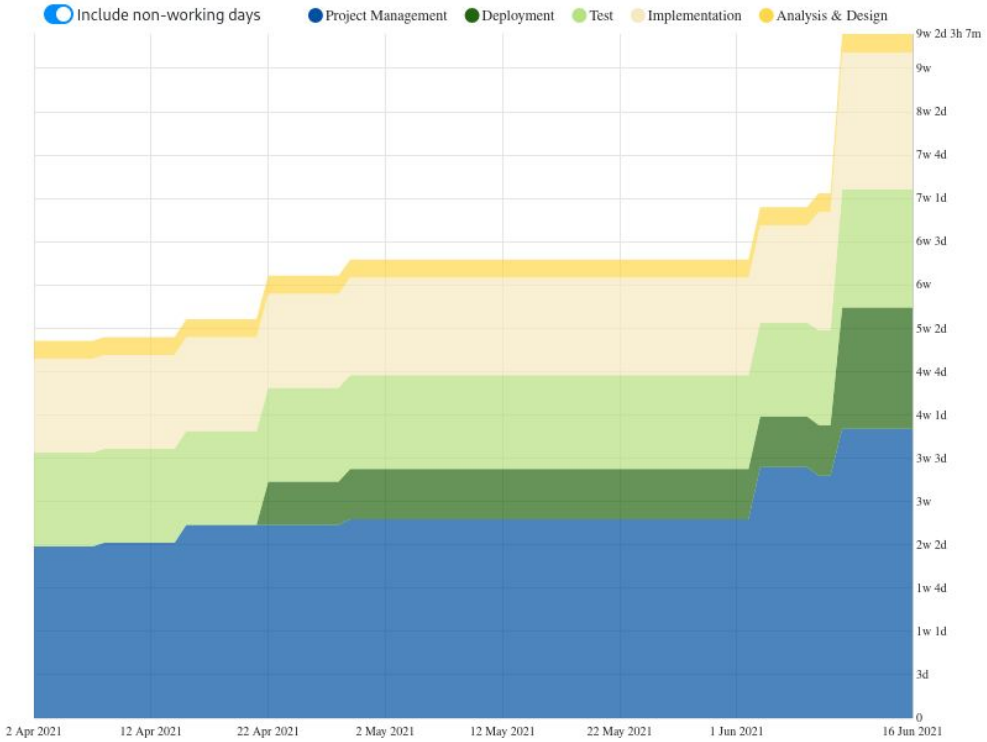
Risk Description	Risk Probability of Occurrence	Risk Impact	Risk Factor	Risk Mitigation
Someone drops out of the project because of sickness, exmatriculation, etc.	1	3	3	more work hours for remaining members, dropping/postponing UCs
The hosting provider/server has a critical failure and suddenly goes offline/Data loss	1	10	10	External Backup, Backup restore
There's a change of laws regarding the privacy of an individual	1	8	8	comply with new laws
There's a critical failure regarding security/data leakage/etc.	2	6	12	Fix security breaches
There are (critical) vulnerabilities in used frameworks/tools	2	7	14	Wait for update/workaround and apply
The data source for the trains will become unavailable since it's an undocumented unofficial API	2	10	20	Change data sources to alternatives (use multiple sources parallel)
Significant changes in the Login/Post-API of Twitter/Mastodon	1	6	6	Update concerning packages/endpoints
A denial of service attack	1	10	10	DDoS protection of hoster

Use-Cases & RUP Workflow

#Use-Cases

- ➔ Business Checkin
- ➔ Search User
- ➔ Visibility
- ➔ Change profile to private
- ➔ Request Follow
- ➔ Mute User

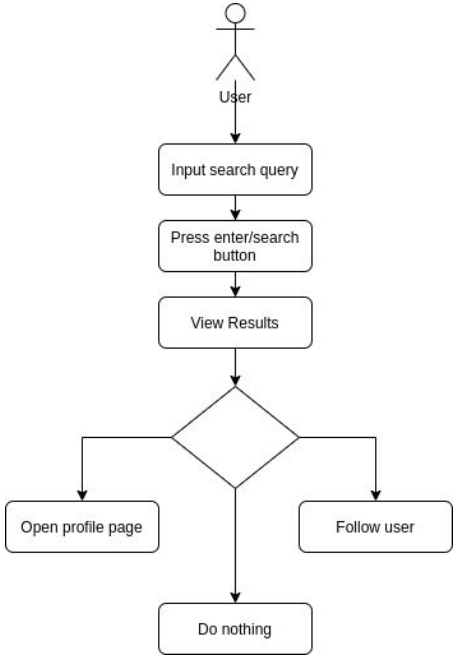
#RUP Workflow



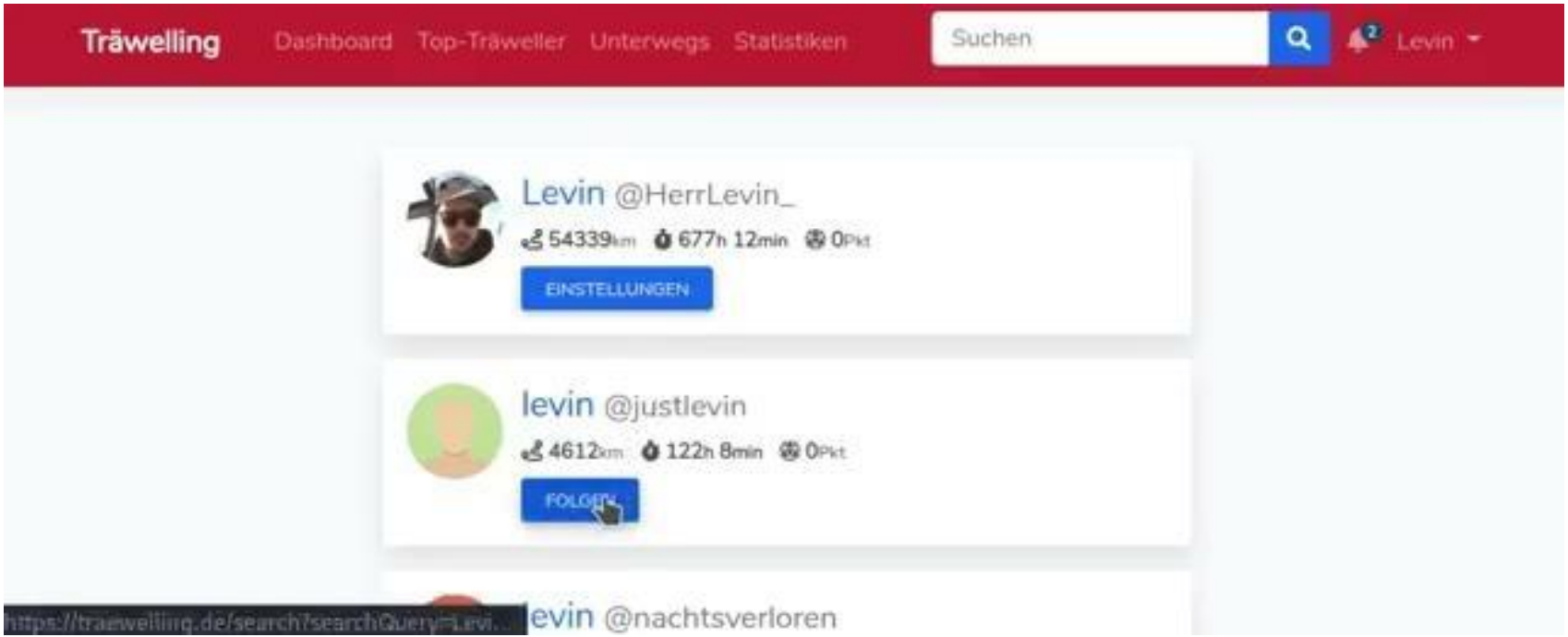
UseCases & Demo

#SearchUser

- ➔ Möglichkeit, Nutzer direkt zu suchen
  - Kein “link-Austausch” über andere Plattformen mehr notwendig
- ➔ Direktes Folgen auf der Übersicht

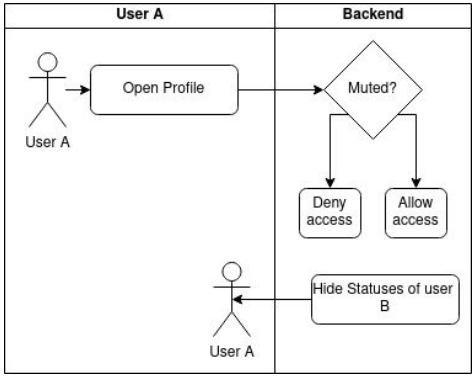


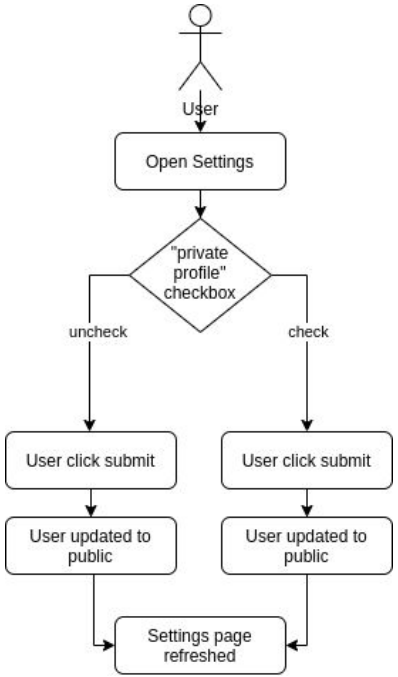
#SearchUser


Träwelling
Dashboard
Top-Träweller
Unterwegs
Statistiken
Suchen
Levin
Levin @HerrLevin_
54339km
677h 12min
0Pkt
EINSTELLUNGEN
levin @justlevin
4612km
122h 8min
0Pkt
FOLGEN
evin @nachtsverloren

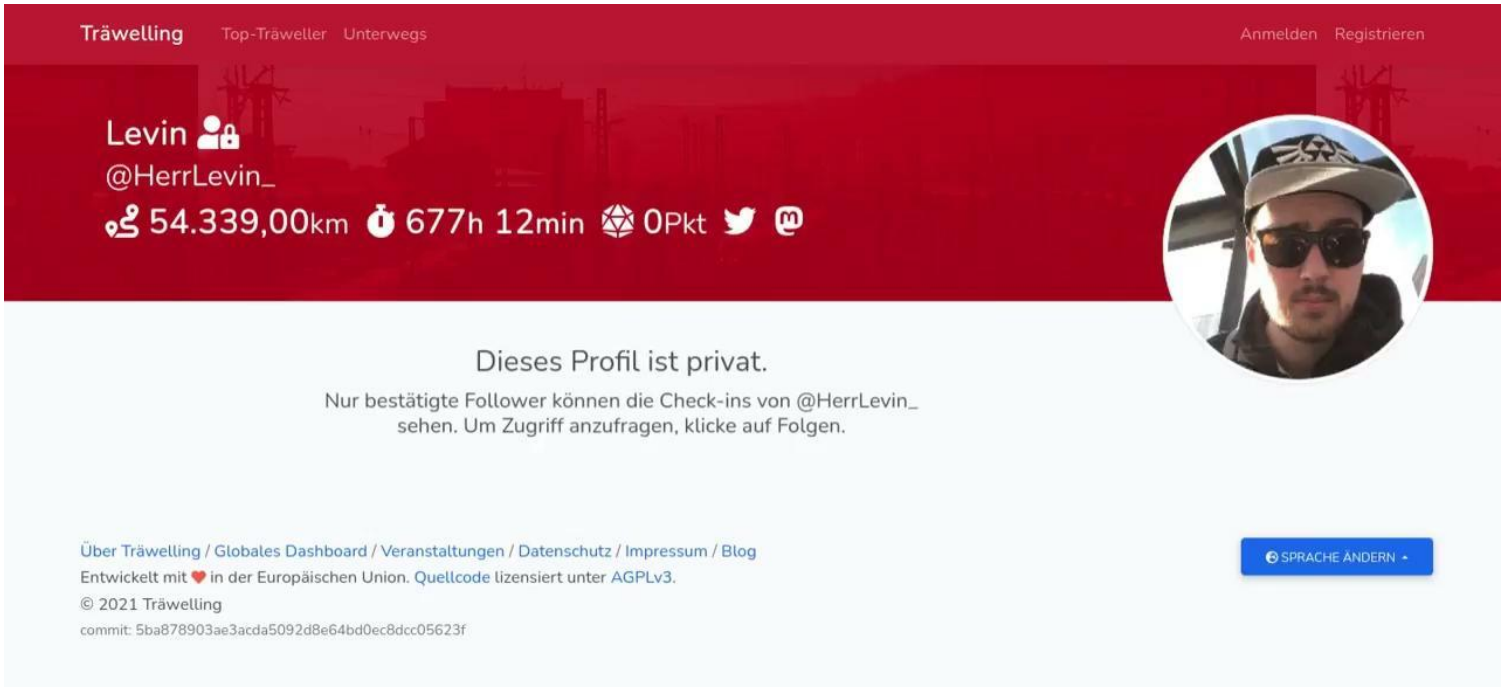
#Change Profile To Private

- ➔ Profil auf “privat” stellen
- ➔ Fahrten nur für sich selbst sichtbar
- ➔ Andere Nutzer*innen bekommen Fehlermeldung auf Profil



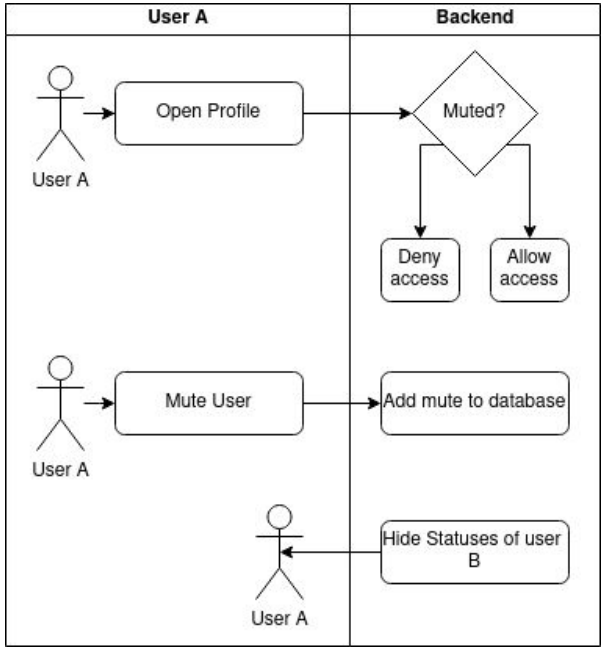


#Change Profile To Private

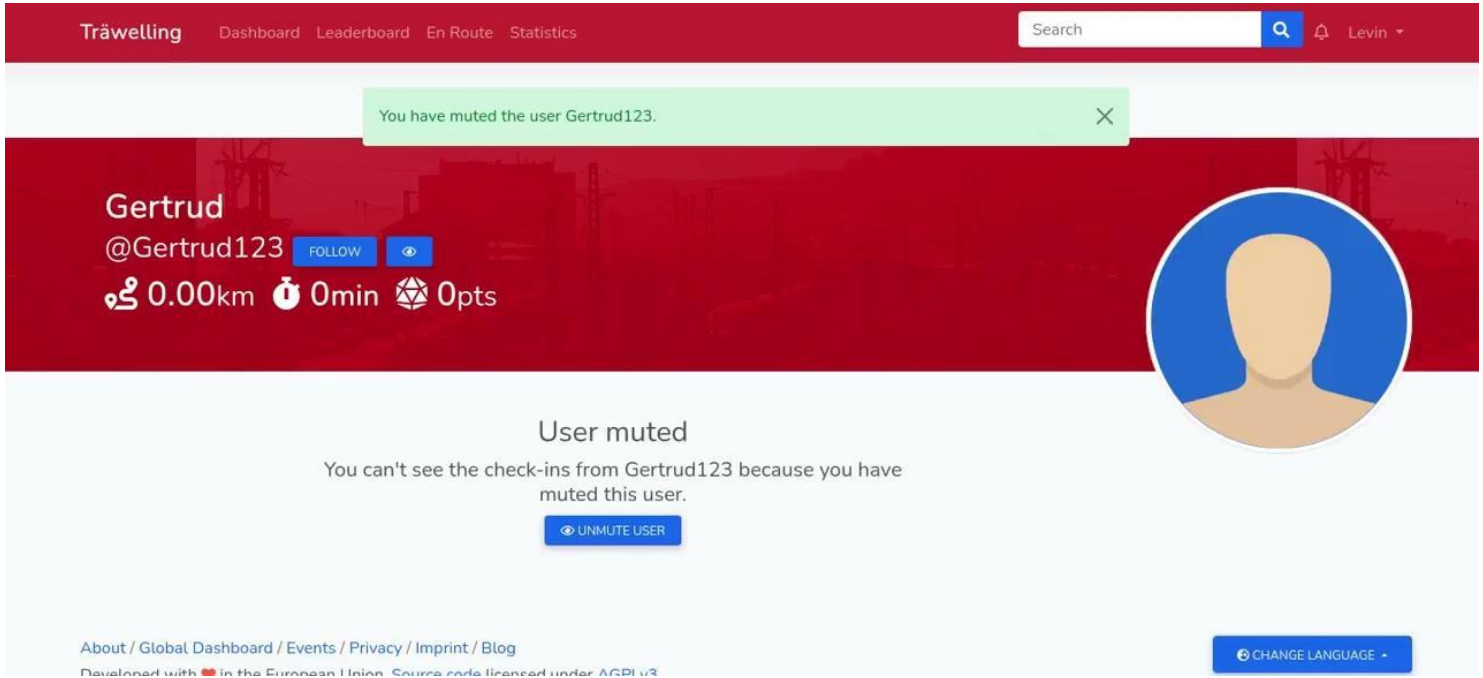


#MuteUser

- ➔ Möglichkeit, andere Nutzer*innen für sich stumm zu schalten
- ➔ “Ausmisten” der globalen Timeline

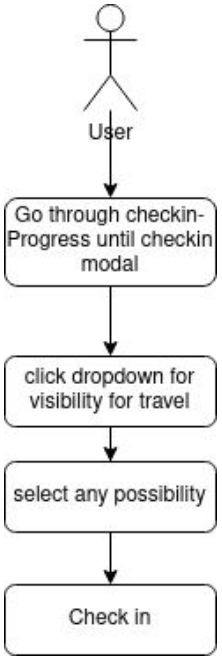


#MuteUser

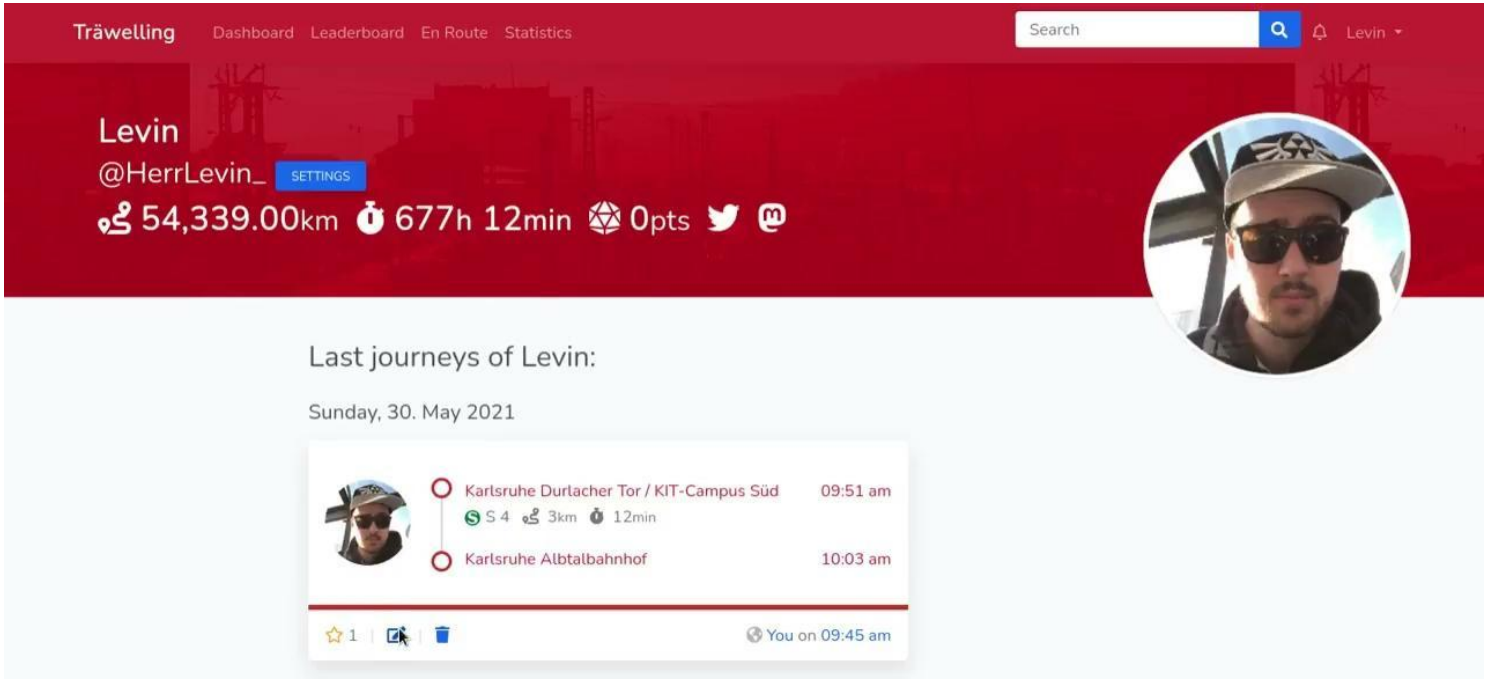

Träwelling
Dashboard
Leaderboard
En Route
Statistics
Search
Levin
You have muted the user Gertrud123.
Gertrud
@Gertrud123
FOLLOW
0.00km
0min
0pts
User muted
You can't see the check-ins from Gertrud123 because you have muted this user.
UNMUTE USER
About / Global Dashboard / Events / Privacy / Imprint / Blog
CHANGE LANGUAGE

#Visibility

- ➔ Sichtbarkeit einzelner Status setzen
- ➔ Möglichkeit auf “öffentlich”, “ungelistet”, “nur Follower” und “privat”

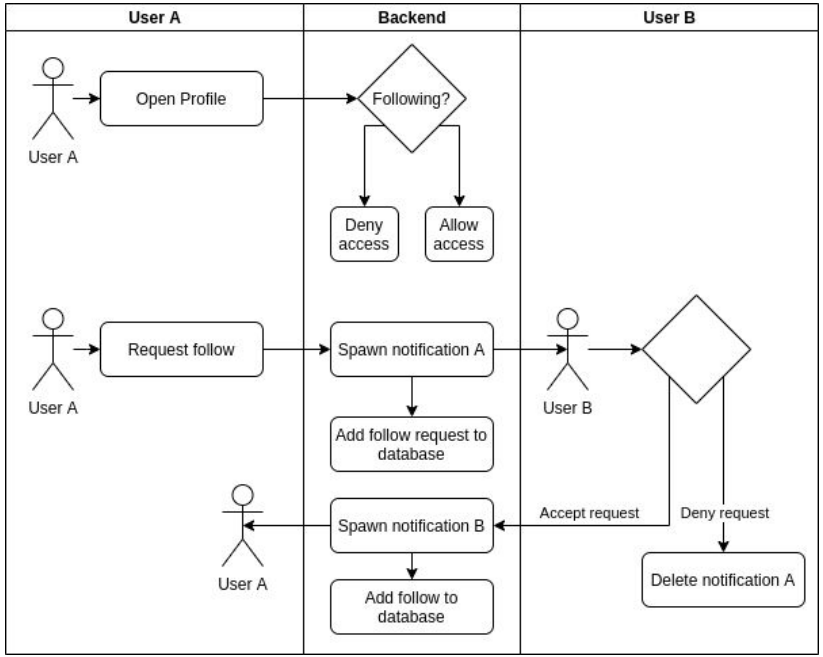


#Visibility

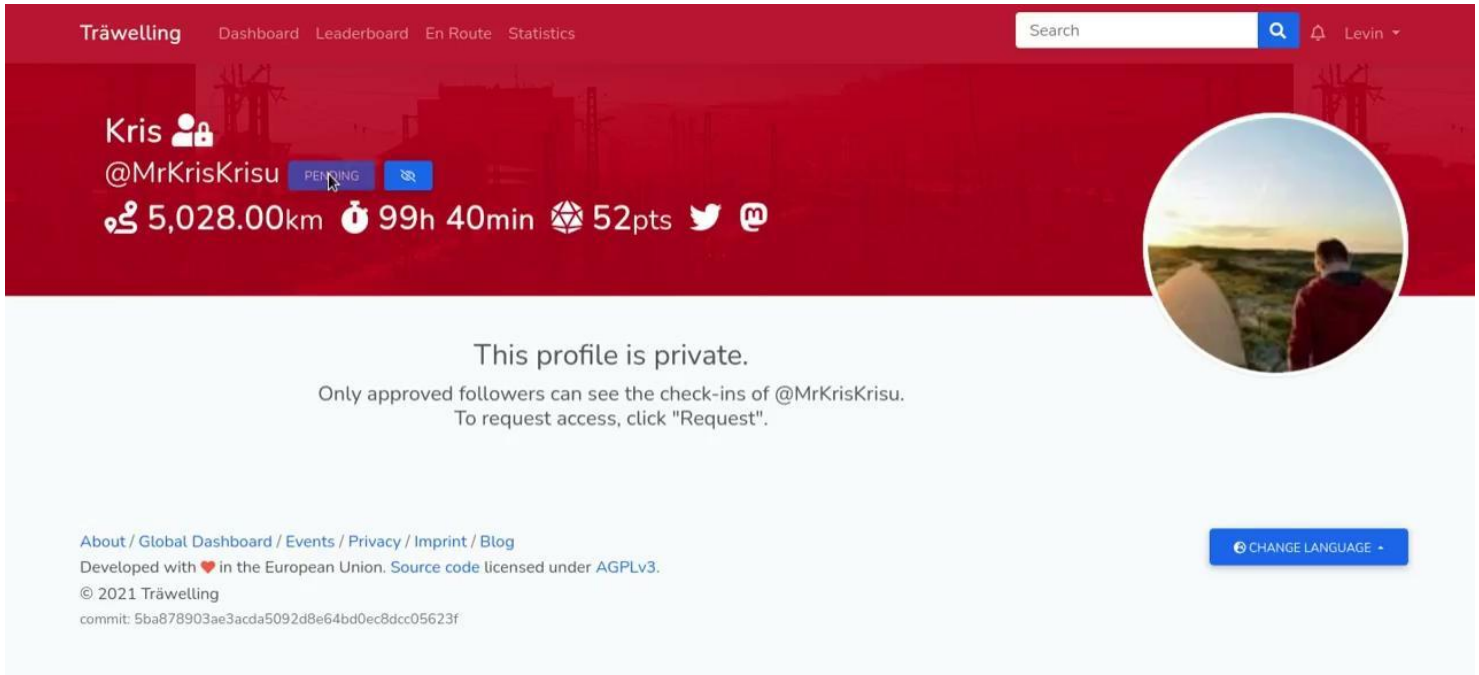

Träwelling
Dashboard
Leaderboard
En Route
Statistics
Search
Levin
Levin
@HerrLevin_
SETTINGS
54,339.00km
677h 12min
0pts
Last journeys of Levin:
Sunday, 30. May 2021
Karlsruhe Durlacher Tor / KIT-Campus Süd
09:51 am
S 4
3km
12min
Karlsruhe Albtalbahnhof
10:03 am
1
You on 09:45 am

#Request Follow

- ➔ Funktionsverbesserung von privaten Profilen
- ➔ Erweiterung von privaten Profilen auf “Follower können Status sehen”



#Request Follow

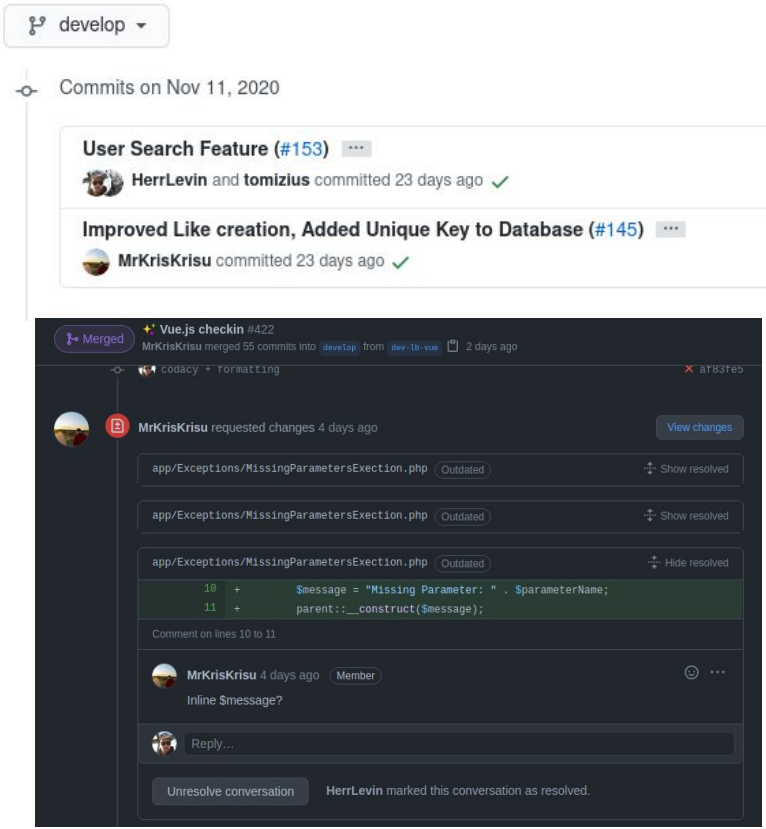


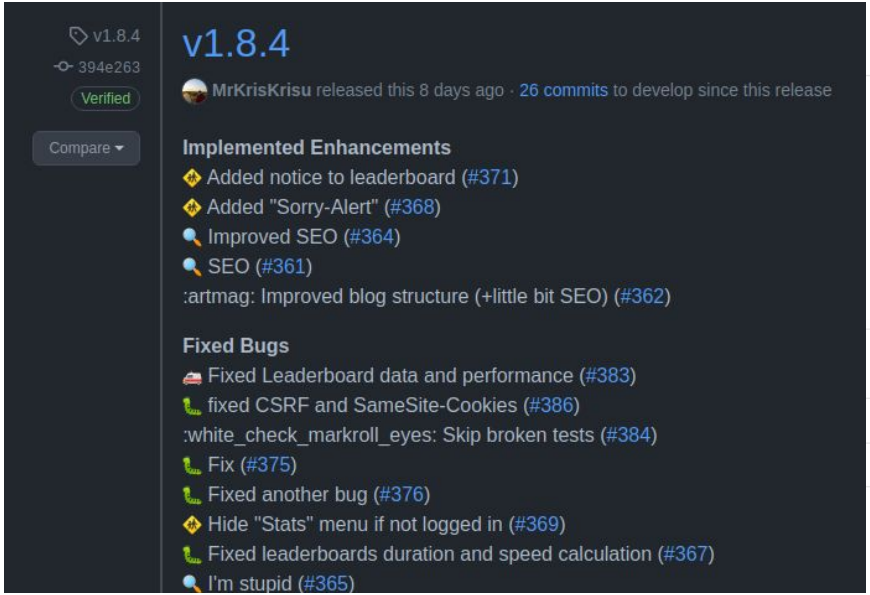
#Request Follow

#Request Follow

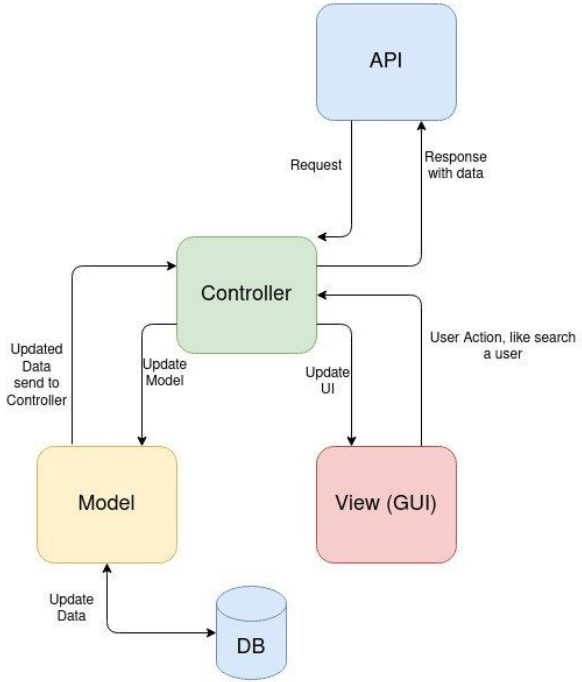
Architektur

#Git, Pipelines und Metriken





#Design Patterns



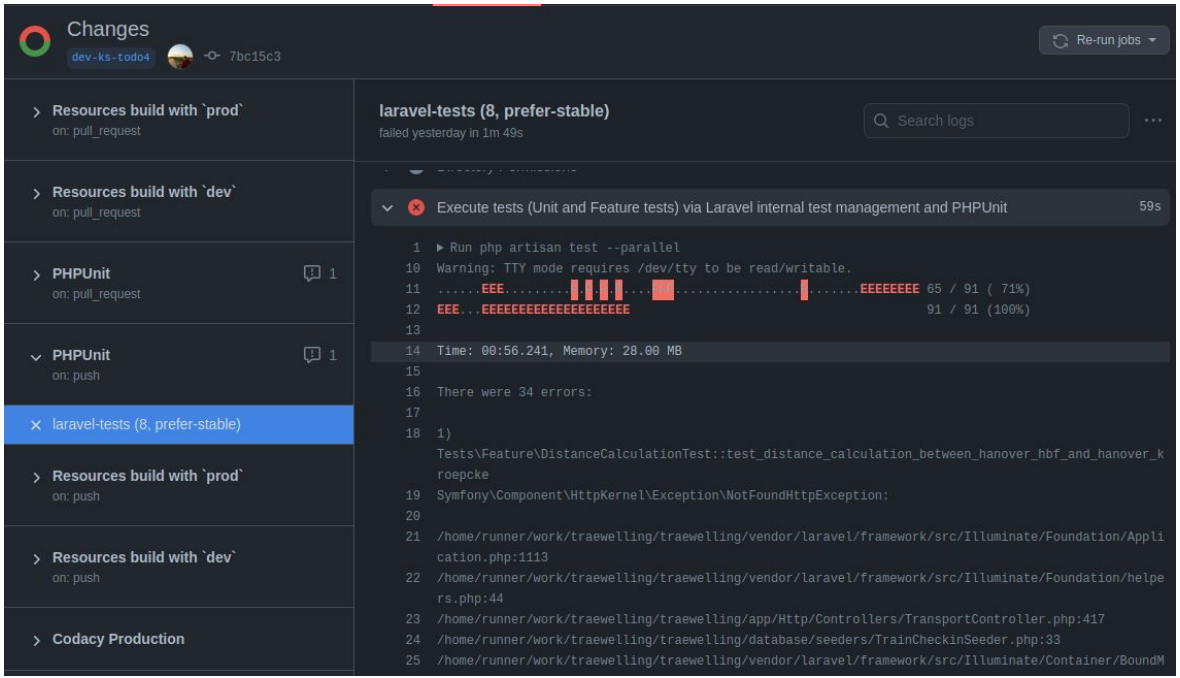
Testing

#Unit-Tests

```php
/**
 * Test the user search
 * @test
 */
public function get_user_search() {
    //Test that user has been found
    $response = $this->withHeaders(['Authorization' => 'Bearer ' . $this->token,
                                    'Accept'        => 'application/json'])
                     ->get(route('api.v0.user.search', 'gertru'));
    $response->assertOk();
    $this->assertFalse(empty(json_decode($response->getContent(), true)));
    $response->assertJsonStructure(['current_page',
                                    'data' => [[
                                                "id",
                                                "name",
                                                "username",
                                                "train_distance",
                                                "train_duration",
                                                "points",
                                                "averageSpeed"
                                              ]],
                                    'first_page_url',
                                    'from',
                                    'next_page_url',
                                    'path',
                                    'per_page',
                                    'prev_page_url',
                                    'to']);

    //Test that an unknown user returns 200 and an empty json object
    $response = $this->withHeaders(['Authorization' => 'Bearer ' . $this->token,
                                    'Accept'        => 'application/json'])
                     ->get(route('api.v0.user.search',
                                 'sdfklghbqeörgjaösrjgäIERGKJAEFÖRGJSDÖFJHBÜÄAJRÄÜG'));
    $response->assertOk();
    $this->assertFalse(empty(json_decode($response->getContent(), true)));
    $response->assertJsonStructure(['current_page',
                                    'data' => [],
                                    'first_page_url',
                                    'from',
                                    'next_page_url',
                                    'path',
                                    'per_page',
                                    'prev_page_url',
                                    'to']);
}
```

#Unit-Tests / GitHub



#Dusk

2.1.3 Narrative

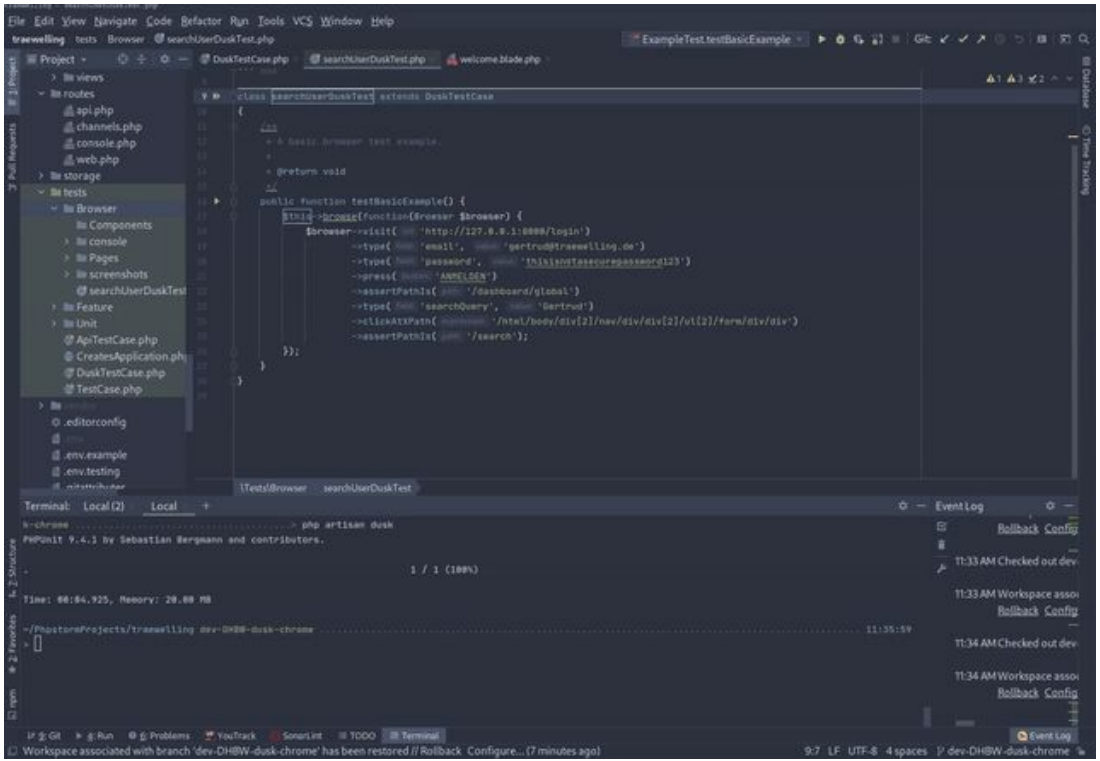
```
Feature: user search

  As a signed in user
  i want to search for another user.

  Background:
    And I am on any page

  Scenario: search user
    Given I am signed in with username "USER" and password "PASSWORD"
    And I am on any page
    When I fill out the "search" form
    And I press the "search" button
    Then I am on the "search results" page
```

#Dusk


File Edit View Navigate Code Refactor Run Tools VCS Window Help
traewelling tests Browser searchUserDuskTest.php
ExampleTest.testBasicExample
Project
views
routes
api.php
channels.php
console.php
web.php
storage
tests
Browser
Components
console
Pages
screenshots
searchUserDuskTest
Feature
Unit
ApiTestCase.php
CreatesApplication.php
DuskTestCase.php
TestCase.php
.editorconfig
.env.example
.env.testing
DuskTestCase.php
welcome.blade.php
class searchUserDuskTest extends DuskTestCase
{
/**
* A basic browser test example.
*
* @return void
*/
public function testBasicExample() {
$this->browse(function($browser) {
$browser->visit('http://127.0.0.1:8000/login')
->type('email', 'gertrud@traewelling.de')
->type('password', 'thisisnotasecurepassword123')
->press('ANMELDEN')
->assertPathIs('/dashboard/global')
->type('searchQuery', 'Gertrud')
->clickAtXPath('/html/body/div[2]/nav/div/div[2]/ul[2]/form/div/div')
->assertPathIs('/search');
});
}
}
Terminal: Local (2) Local
php artisan dusk
PHPUnit 9.4.1 by Sebastian Bergmann and contributors.
1 / 1 (100%)
Time: 00:04.925, Memory: 20.00 MB
~/PhpstormProjects/traewelling dev-DHBW-dusk-chrome
Event Log
Rollback Config
11:33 AM Checked out dev
11:33 AM Workspace asso
Rollback Config
11:34 AM Checked out dev
11:34 AM Workspace asso
Rollback Config
Git Run Problems YouTrack SonarLint TODO Terminal
Event Log
Workspace associated with branch 'dev-DHBW-dusk-chrome' has been restored // Rollback Configure... (7 minutes ago)
9:7 LF UTF-8 4 spaces dev-DHBW-dusk-chrome

Dankeschön