Pascal Treptow, Sascha Kühne, Carolina Mehret



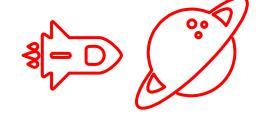
### **Agenda**

- Vision
- Teamrollen
- Funktionen (Use Cases)
- SCRUM
- RUP
- Architektur
- Tests
- Demo
- Ausblick



# VISION

#### **Vision**



- Applikation die Face Detection und Face Recognition realisiert
- Applikation soll über eine Webseite erreichbar sein
- Speichern und Auswerten von Daten

# ROLLEN

### sapaca - Face Recognition Rollen



### **Pascal Treptow**

- Software Architekt
- Designer
- Test Manager
- Implementierer



### Sascha Kühne

- Software Architekt
- Test Manager
- Implementierer
- Konfigurationsmanager



### **Carolina Mehret**

- Projektmanager
- System Analyst
- Implementierer

## EUNKTONEN

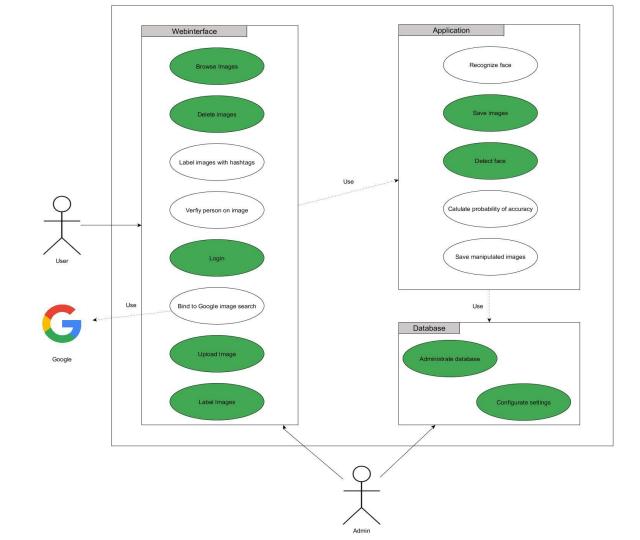
### **SRS - Funktionen**

- Upload Image
- Detect Face (Image)
- Label detected Face
- Lösche Image
- Administration und Konfiguration der Datenbank

## sapaca - Face Recognition SRS - Funktionen Ausblick

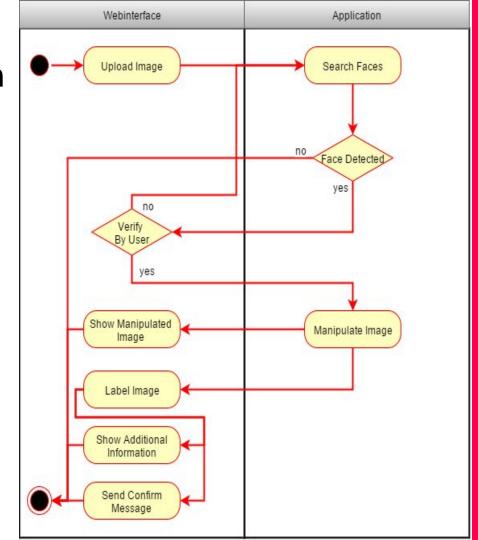
- Face Detection für Video Source
- Recognize Face
- Google Anbindung
- Auswertung von Daten

# USE CASES



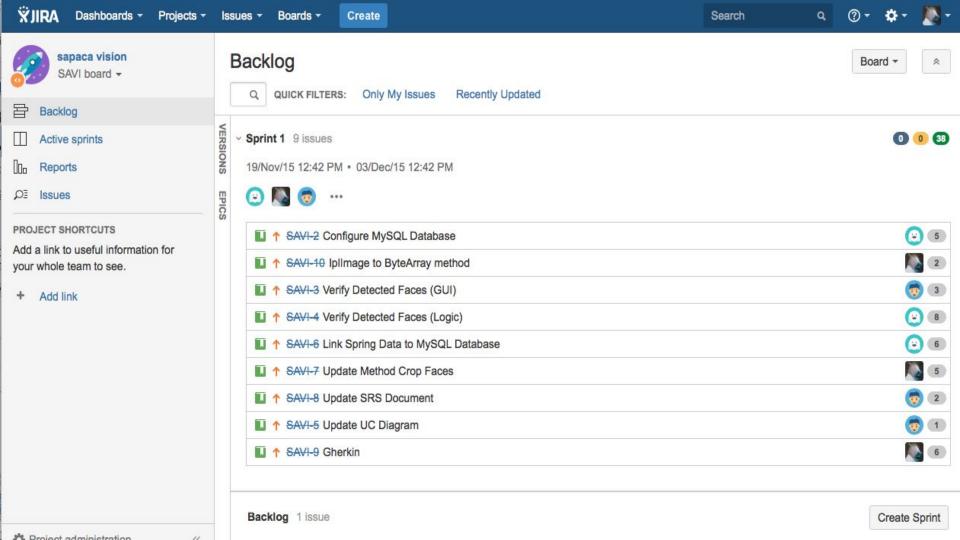
## sapaca - Face Recognition Detect Face

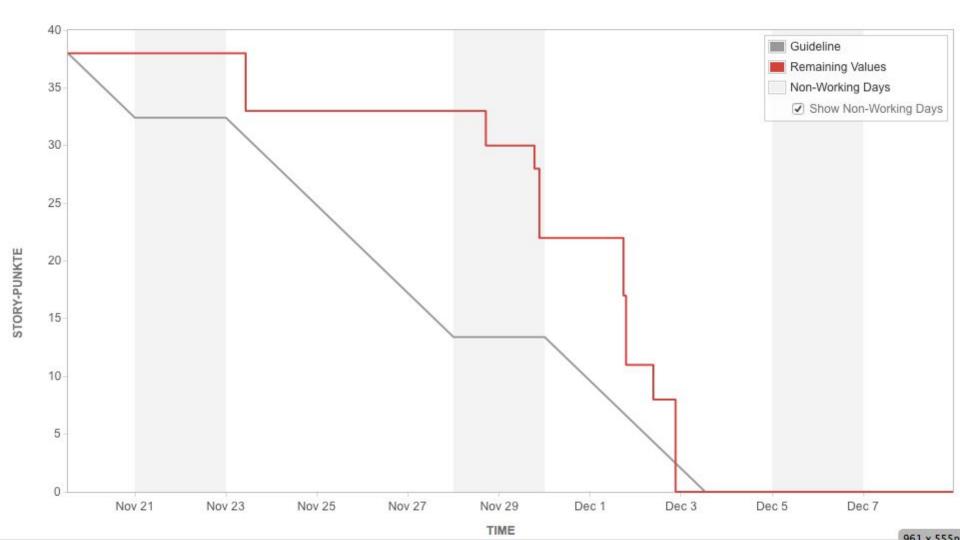
 Applikation erkennt Gesichter von einem hochgeladenem Bild



# SCRUM

- Vorgehensmodell des Projektmanagement
- Sprint
  - Stories
  - Storypunkte
- Dailys
- Code Review

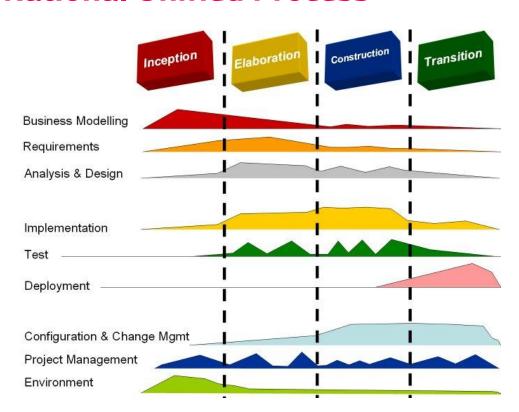




# RUP

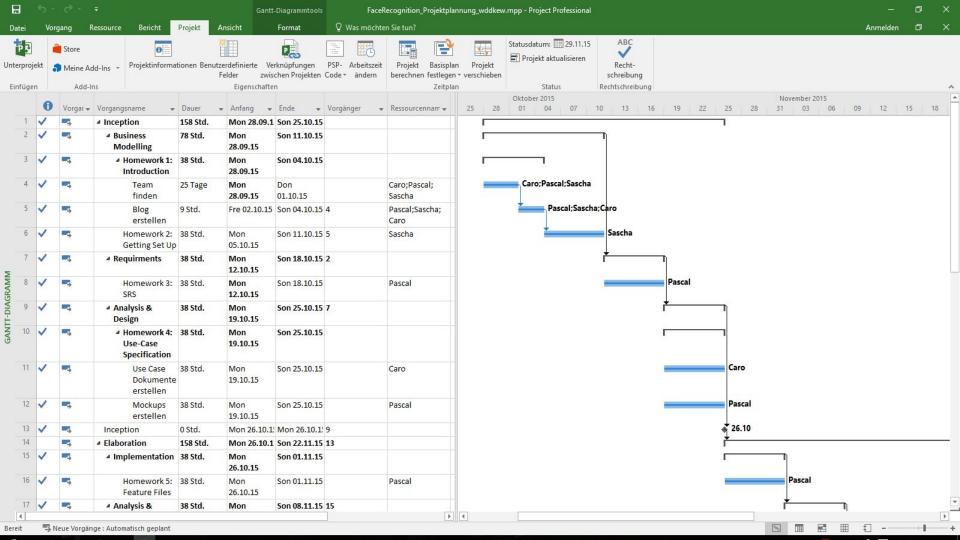
Rational Unified Process

#### **RUP - Rational Unified Process**



## sapaca - Face Recognition Gantt-Chart

- Übersicht über die Aktivitäten
- Visualisierung des zeitlichen Ablaufs
- Abhängigkeiten zwischen Aktivitäten



## TECHNOLOGIEN

**Technologien** 

• **IDE:** Eclipse

Build Management: Gradle

Sprachen: Java/C++

Libraries: OpenCV

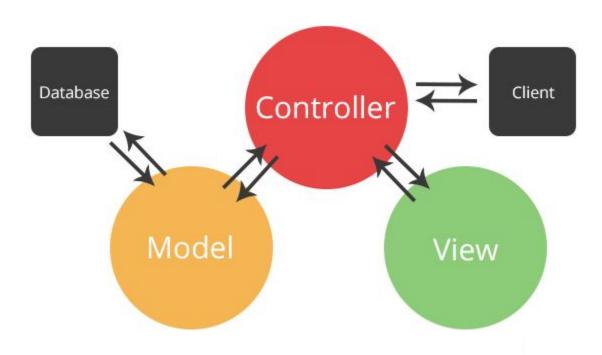
Datenbank: MySQL, Spring Data, Hibernate

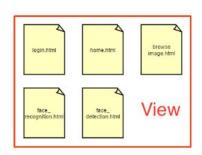
Version Control: GitHub

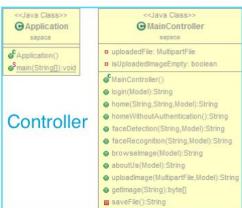
Sonstiges: Spring Boot, Spring Web MVC,

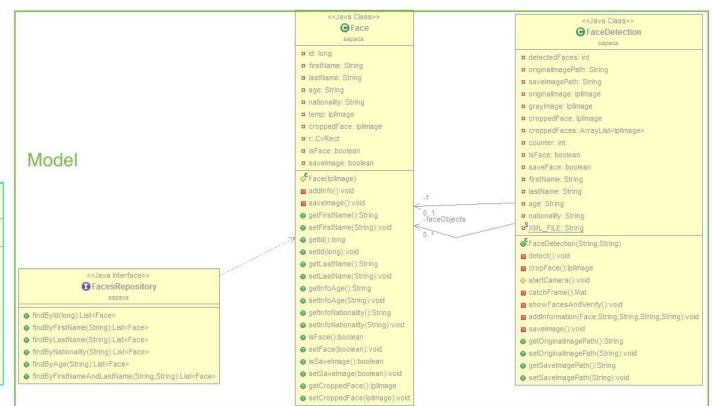
Thymeleaf

# V/C









# TESTS

- Funktionale Tests wurde mit cucumber realisiert
- Automatisiertes Testen der Webanwendung wurde mit **Selenium** realisiert



### sapaca - Face Recognition Feature File

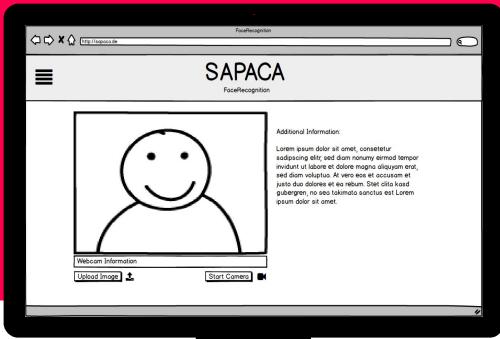
```
@ Feature: Upload Image
Background: User is logged in
Scenario: Successful upload of an Image and FaceDetection
     Given I am logged in
     When I navigate to page "Face Detection"
     And I press the "Upload Image" Button
     And I select an Image with size "3" MB
     And I press the "Submit" Button
     Then I see the uploaded Image with detected Faces
Scenario: Not Successful upload of an Image
     Given I am logged in
     When I navigate to page "Face Detection"
     And I press the "Upload Image" Button
     And I select an Image with size "6" MB
     And I press the "Submit" Button
     Then I see an error message
```

### sapaca - Face Recognition Feature File

```
Scenario: Not Successful upload of an Image # /Users/caro/Documents/P/Studium/DH/3.Ser
Given I am logged in # Test_Steps.i_am_logged_in()
When I navigate to page "Face Detection" # Test_Steps.i_navigate_to_page(String)
And I press the "Upload Image" Button # Test_Steps.i_press_the_button(String)
And I select an Image with size "3" MB # Test_Steps.i_select_an_image(int)
And I press the "Submit" Button # Test_Steps.i_press_the_button(String)
Then I see the uploaded Image with detected Faces # Test_Steps.i_sse_uploaded_image()
```

2 Scenarios (2 passed) 12 Steps (12 passed) 0m27.160s

Demo



Face Detection Face Recognition Anbindung Google

Face Detection Face Recognition Anbindung Google

Face Detection Face Recognition Anbindung Google





# Dankel

Gibt es noch offene Fragen?

https://sapacablog.wordpress.com