Demo Day Preparation

Prof. Dr. Dirk Riehle

Friedrich-Alexander University Erlangen-Nürnberg

AMOS H01

The AMOS Demo Day

- The demo day is the final day of the course
  - The demo day is organized as a **fair** (“Messe”)
  - Student teams show the results of their project
  - Audience are industry partners and fellow students
- After the opening, everything runs in parallel

AMOS Demo Day Time-Line

Time	Location	Agenda / Tasks
09:30-10:15	Demo rooms	Set-up and test of demo room
10:15-10:25	Plenum	Welcome address by Prof. Riehle
10:25-10:35	Plenum	One slide presentation by each team
10:40-11:40	Demo rooms	Four demo sessions of 15min. each
11:40-11:45	Plenum	Closing remarks by Prof. Riehle
11:45-open	Demo rooms	Open discussion in demo rooms

Presentation Booth / Demo Room

- If held **in-person**
  - Students are given a “demo booth”
  - The booth is a table plus pinboards
  - Students demo their work at this table
  - Students explain their work using the posters
  - Students can create additional materials

- If held **online**
  - Students are given a virtual demo room
  - Students provide a back-up video
  - Students demo their work in this room
  - Students explain their work using slides
  - Students can create additional materials

Demo Posters / Slide Deck

- If held **in-person**
  - One product management poster with
    - Project and team name, team logo
    - Short project description
    - Key use cases
  - One software development poster with
    - Software architecture
    - Employed technology
    - Tooling and processes
- If held **online**
  - A slide deck with
    - One product management slide
    - One software development slide
    - One team photo slide (can be screenshot)
  - For content, see in-person

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JOWBANA

Personalfragebogen 2.0

Personnel Questionnaire Automation

Personalfragebogen 2.0* is a personal data management software solution, supporting companies of any size in hiring new employees more efficiently.

The product improves the hiring process by automating the collection of personal data during the hiring procedure, and provides aid in managing the collected data.

Demo Day
Friedrich-Alexander Universität Erlangen
Wednesday, 15 July 2015 10.15-11.45

*Personalfragebogen 2.0 is a joint project between FAU's OSR Group and DATEV eG.

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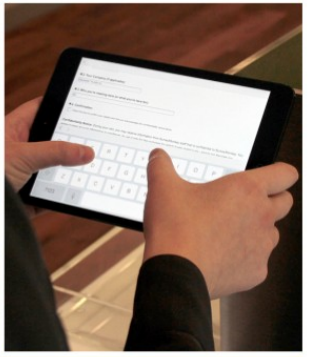
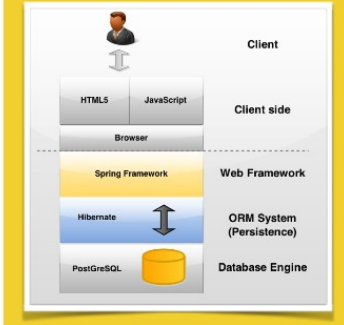
JOWBANA

Personalfragebogen 2.0

Personnel Questionnaire Automation



Software Architecture



Technology

Name	Function
Spring Framework (4.1.6)	Java based Web Framework
Java SE (7u79)	Fundamental Platform
HTML5	Client-side core technology
Selenium (2.45.0)	UI Testing/Integration Testing
JUnit (4.12)	Java Unit Testing Framework
Hibernate ORM (4.3.9)	ORM System for persistence
PostgreSQL (9.4.1)	Database Management System
Tomcat 7.0.61	For local deployment

*Personalfragebogen 2.0 is a joint project between FAU's OSR Group and DATEV eG.

Use of Corporate Identities

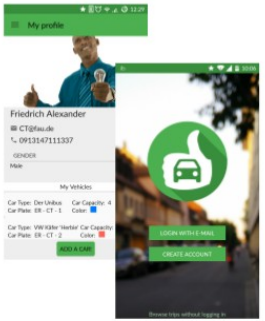
- Please use university logo
- Please use your team logo
- Please use industry partner logo, but ask first

CroudTrip!

sponsored by Elektrobit

The CroudTrip! application wants to revolutionize the car-ride-sharing market with its easy, user-friendly and highly automated way of organizing shared Trips!

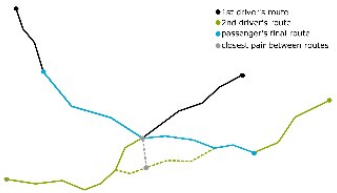
The Product



- Offer and join shared Trips at short-notice!
- For drivers: Easily find passengers on the way you are going anyway … and earn money with it!
- For passengers: Reach your destination comfortably!
- We will automatically match you to the best offer in real-time!
- Simply check-in and check-out of your Trips using NFC on your device!
- No direct Trips? No problem - Join a SuperTrip! with multiple drivers!

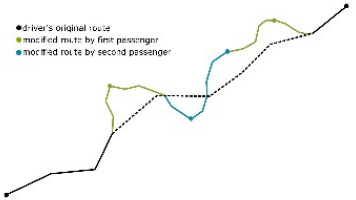
The Concept

SuperTrip!



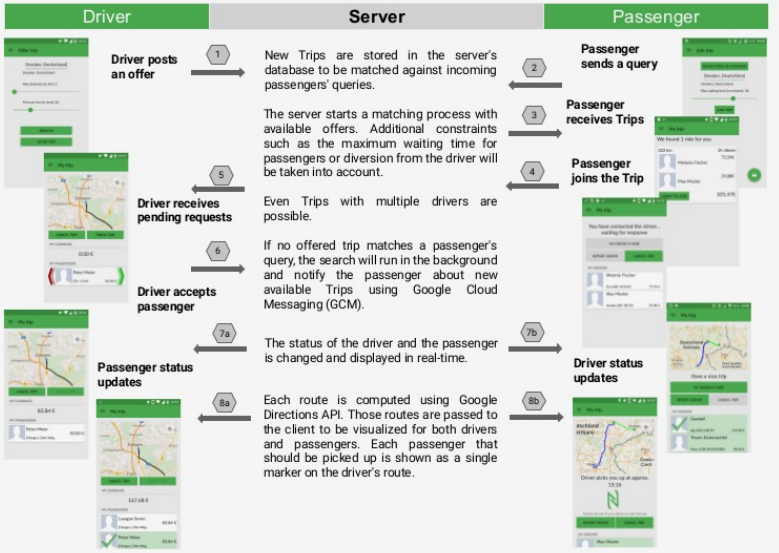
- Combine multiple offered routes to serve passengers even if there is no direct connection available
- Find routes which can pick up a passenger from his start position or drive to his final destination
- Subdivide those routes, compute the closest pair of those waypoints and use it as a "connection point"
- If the distance of the closest pair is too large, start a recursive matching process with these two waypoints

Multiple Passengers

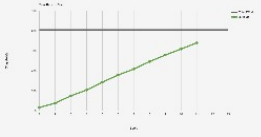


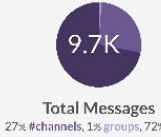
- Match multiple passengers with one driver who will pick them up and bring them to their destinations in an optimal order
- Optimal order is constrained by given internal order of each waypoint pair, because each passenger has to be picked up before the driver reaches his destination location
- Compute optimal order by solving the Travelling Salesman Problem via Brute Force (max. 4 passengers)

The Interactions



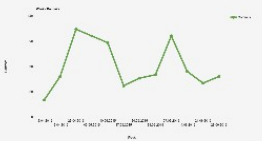
The Process





Total Messages

27% #channels, 1% groups, 72% DMs



- Total # of story points: 370
- Development Speed: 30.9
- 13.23% of total effort used for bugfixing
- Slack as main communication tool
- Integrations for Travis CI, Github and Crashlytics
- Total # of Commits: 727
- Lines of Java Code: 15362
- Lines of Comments: 3938

The Team

The Sponsor

Elektrobit

The University

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Presentation Table

- If held **in-person**
  - Mandatory
    - Bring a laptop to demo your project
    - Bring anything else necessary
  - Optional
    - Be creative, do what works!
    - The goal is to explain your project
- If held **online**
  - Prepare for online presentation

Demo Preparation

- Dos
  - Have a clean user interface
  - Use domain terminology and examples
    - In the user interface (labels, titles)
    - In the stories you tell
  - Have a story to tell, for example,
    - A day in the life of …
    - A workflow example
  - Make the demo (data) re-entrant
    - You will have to start over several times
    - Always want to start at the same point
- Don’ts
  - Use “test” or “help” as labels
  - Not follow the advice on the left

Demo Execution

- Have two people at the presentation booth / virtual demo room
  - One talks to people in general
  - One demos to people

Thank you! Questions?

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  - None yet