Developing Cloud Software using SAP Technology
SEMINAR KICKOFF
We start at 10:15
Who we are

Maximilian Altmeyer
Frederic Kerber
Felix Kosmalla
Christian Lander
The Innovative Retail Lab

Innovations
Discussions
more

500 qm Lab Space

founded 2007

more than 20 scientists, technicians & support staff

IRL
Innovative Retail Laboratory

partners

500 qm Lab Space

founded 2007

more than 20 scientists, technicians & support staff
Who are you?
Learning Goals

- Foundations of cloud-ready software
- Software design process
- Get insights in recent topics in the retail domain
Topics to choose from

Groups of 4, i.e. 3 topics will be covered

- Intelligent Fresh Food System
- Urban Farming System
- Pick-Up System for Click & Collect
- Window Shopping
- Queuing System for Fresh Food Counter
Intelligent Fresh Food System

- Develop a self-checkout system
- Crate can register movements of fruit (removal / restock)
- Build interfaces for
  - Customer – Payment
  - Employee – Restocking / Problems
  - Manager – Analytics
Urban Farming System

- Develop a management system for a smart greenhouse
- Build Interfaces for
  - Sensor events / task management
  - Knowledge database / Q&A
Pick-Up System for Click & Collect

- Develop a system for a retail click & collect application
- Build interfaces for
  - Customer – to shop
  - Employees – to collect
  - Manager – to analyze
Window Shopping

- Smartphone controlled window shopping system
- Build interfaces for
  - Customer – to browse / buy products
  - Manager – to organize products
Queuing System for Fresh Food Counter

- Develop a position-aware ticket system
- Build interfaces for
  - Customer – acquire a ticket
  - Employee – chose next ticket
- Backend
  - Intelligent queuing / notification system
Vote for a topic!

- Please state your top 3 projects
- Let us know if you want to work with specific people (groups of 4)
- **Deadline:** Tomorrow, 12pm (noon)

https://forms.gle/XtSAE6rd7BJxg3nJA
Procedure

Introduction to Framework

Design & Implementation

Mid-Term Presentations

Final Presentations

13 weeks

4-5 weeks

4 weeks

2-3 weeks
Christian will give you a hands-on introduction

...?
Design & Implementation

REQUIREMENTS on 26 May 2022 EOD
- Final written concept as PDF

Talk to your advisor during the process!

GRADING (20% overall)
- Clarity of writing
- Feedback of advisors is integrated

- Meet with your advisor to talk about details
- Submit Design Document
  - Implementation timeline (including Milestones)
  - Scope statement
    - Must-Have
    - May-Haves
    - Must-Not Haves

Will be used for grading
Mid Term Presentations

REQUIREMENTS on **23 Jun 2022**
- Oral presentation (10 min)
  - Should include video of MVP

GRADING (40% overall)
- MVP presented
- Quality of slides
- 50% of Must-Have Features are present
- Use of allotted time
- Structure of talk is easy to follow

- Minimum Viable Prototype
  - Showcase your prototype
  - At least half of the Must-Haves need to be implemented
- Plan for the final 5 weeks
Presentation of Final Implementation

**REQUIREMENTS on 21 July 2022**
- Oral presentation
- Video / Live Demo

- Show your Prototype!

**GRADING (>=40% overall)**
- Must-Haves
- May-Haves (Bonus Points)
- Code quality (Documentation)
What’s next?

- Vote for your topic!
  - By tomorrow noon
  - Please only vote if you really want to participate!

- Join the intro sessions
  - Start working on Design Document

Do not forget to register in LSF!