



We start at 10:15

Developing Cloud Software using SAP Technology

SEMINAR KICKOFF

Who we are



Maximilian
Altmeyer



Frederic
Kerber



Felix
Kosmalla



Christian
Lander

The Innovative Retail Lab



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)**

The screenshot shows a Google Form titled "Topic Preferences". It contains two dropdown menus for "First Priority" and "Second Priority", both marked as required. The "Second Priority" dropdown is open, showing options: "Intelligent Fresh Food System", "Urban Farming System", "Pick-Up System for Click & Collect", "Window Shopping", and "Queuing System for Fresh Food Counter". Below these is a text input field for "I would like to work with the following people:" and a "Your answer" label. At the bottom are "Back", "Submit", and "Clear form" buttons.

Topic Preferences

First Priority *

Choose

ⓘ This is a required question

Second Priority *

Choose

Intelligent Fresh Food System

Urban Farming System

Pick-Up System for Click & Collect

Window Shopping

Queuing System for Fresh Food Counter

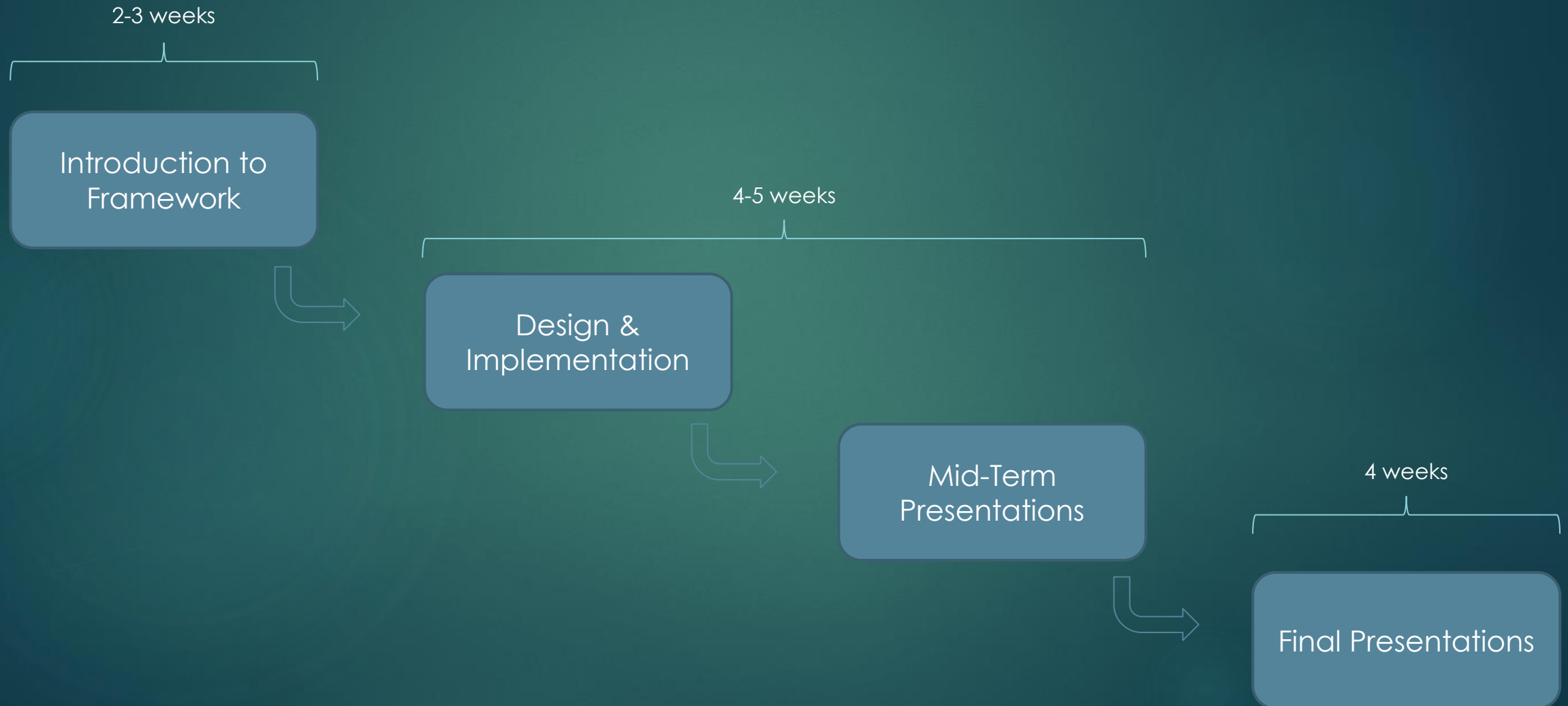
I would like to work with the following people:

Your answer

Back Submit Clear form

Procedure

13



Introduction to Framework

- ▶ 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!