iOS Praktikum WS14/15 Info Meeting

(July 26, 2014)

Creating mobile applications with the iOS SDK







Why should you attend?

This is a challenging course!

We have

- Real customers
- Real problem statements
- Real data
- Real team experience
- Real project experience
- Real deadlines







Course structure



Kickoff: October 9, 2014 (Thursday)

- Problem statement presentations by the customers
- Planned: 8-11 projects with 5-8 team members



Organizational phase

- Students can express preference for specific projects
- One team per project
- One project leader and one coach per team



Requirements elicitation with the customer

- Focus on usability engineering
- Usage of mockups and executable prototypes
- Agile development with early product increments







What we expect from you



Knowledge in object-oriented programming languages and paradigms (such as Java, C++, C#, Objective-C...)



Abilities in UML-Modeling

You understand Class Diagrams and Use Case Diagrams



Team player abilities

Our projects are demanding and require real team work as well as communication with the customer



High motivation

Challenging tasks require attention and commitment beyond a normal course







Helpful skills for taking the course



Knowledge in iOS development

- Objective-C / Cocoa Touch / Swift :-)
- iOS SDK



Usability engineering

- Prototyping
- Mockups



Soft skills

- Presentation techniques
- Interaction with the client



Design Patterns





During the course you ...



- ... gain experience in all phases of an agile software development project
 - Analysis, Design, Rationale, Implementation, Testing, Delivery
 - State of the art tools: JIRA, Confluence, Bamboo, Stash, HockeyApp, ...



- ... develop an iOS application
 - Swift
 - iOS 8



- ... deliver the application to the customer
 - Continuous Delivery (Multiple times during the course)
 - Gather feedback from your customer and end users



- ... improve your soft skills
 - Presentation in front of all participants and your customer
 - Software theater







Examples from previous courses

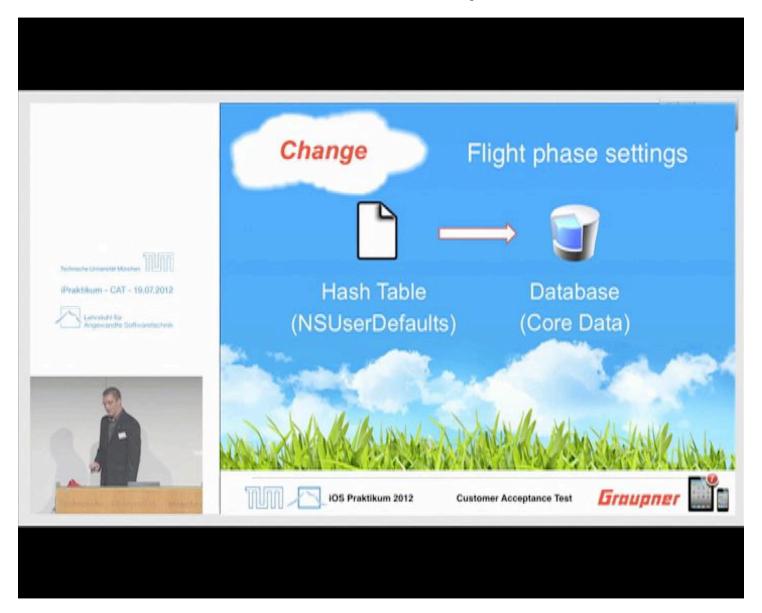








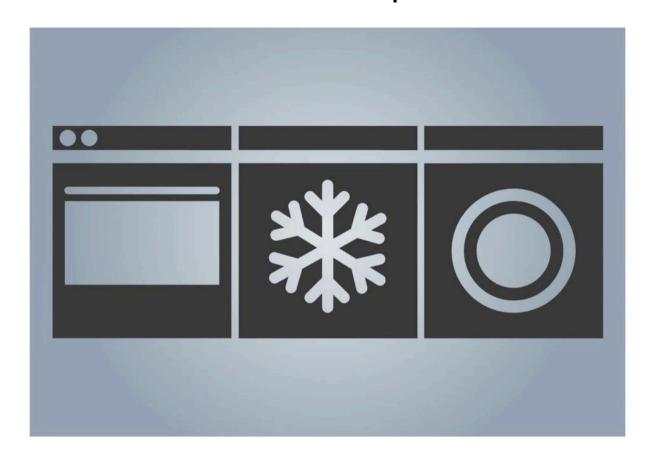
Demo Example







Trailer Example #1



SIEMENS





Trailer Example #2







Project organization (SS14)







Intensive support



Prof. Bernd Brügge, Ph.D.



Stephan Krusche



Lukas Alperowitz



Stefan Nosović



Martin Wagner



Nitesh Narayan



Juan Haladjian



Jan Knobloch



Barbara Köhler



Yang Li



Hoda Naguib



Sebastian Peters



Helma Schneider



Emitzá Guzman



Rana Alkadhi



Monika Markl



Ruth Demmel



Damir Ismailović









Registration process

Fill out the survey on www1.in.tum.de/ios

Due: July 4

Prioritize the iOS Praktikum in the new matching system

Between: July 4 - 8

We inform you about your application

Due: July 13

Important: You have to complete the survey AND enter your preferences in the matching system!



2

3



Questions

When will the customers be announced?

At the kickoff meeting on October 09 :-)

How can I prepare for the course?

- Read a Software Engineering book (e.g. Bernd Brügge, Allen H. Dutoit Object-Oriented Software Engineering: Using UML, Patterns and Java)
- Read a Usability Engineering book (e.g. Jakob Nielsen Usability Engineering)
- Watch an online iOS Tutorial (e.g. Stanford: http://www.stanford.edu/class/cs193p)
- Look at the Client Acceptance Presentations of previous years

When does the course end?

- With the end of the semester
- Tentative: January 30, 2015 (Client Acceptance Test)



