Application Transformation – from an ordinary 4GL to a modern Web Application with pioneering UI/UX

Open System Invaliden Versicherung
OSIV Solution Center, OSC

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Quick Intro

OSIV Solution Center

Social Security Insurance Application for 7 Swiss cantons/states
1300 users / 22 employees
20 year old legacy software
Why?
- High Maintenance
- Training time consuming
- Old Technology
- Application unsexy
- Resources / Motivation
Preparation before the Project

- Technology evaluation (several approaches)
- Analysis of available frameworks
- Proof of Concept
as Partner

Unknown terrain

- Not our daily business
- A once in a lifetime project without blueprint
- Switch from classic 4GL to OOABL
- Switch from fat client to n-tier
- Switch from Progress UI to WebUI
- Including new framework(s)
The Partner Concept

OSIV-Pool Stakeholder & Progress

User Centered Design

ERNI enables & delivers

Framework
Output of PoC

- Prototype
- Use Case Catalog
- Project Plan
More Output of PoC

- no big bang approach, smooth launch
- project time about 3-4 years
- double the team size temporarily
Smooth Launch

Data compatible

OSIV-DB

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4 pillars

- key user integration
- UI/UX concept
- frameworks
- agile development
Key User Integration
Key User Integration

- identifying them
- analysis of actual processes
- redefining the requirements
- recurrent usability tests
- testing
User Interface/
User eXperience

UI/UX
Sneak Preview
Sneak Preview
UI/UX

- user centered design
- one window vs multiple windows
- 3 parts, menue, FAB, context, ...
- using 2 screens

- needed to define a MVP
Frameworks
Frameworks

- specialised tasks
- ready-to-use
- AKIOMA.Dev! integrates SmartComponentLibrary
- participation on product enhancements

➤ Session @ 16:30 with live demo
Process Changes

- doubling the development team size
- work remotely
- work with other cultures (companies, countries, languages, ...)
- implementing small steps
- reacting immediately on changes

=> Agile Development
Let's do it agile
work together daily

Business and Developers

satisfy customer

technical excellence

measure of progress

self organizing teams

deliver frequently

simplicity

good design

changing requirements

are welcome

transparency

reflect

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Agile Development Challenges

- new objectives to present first results
- changing of habits
- new kind of team work
- definition of ready, definition of done
- cutting user stories, simplicity
Project Management
Project Management

- leadership by management
- stakeholder management
- communication (esp. outside sprint team)
- risk management
- budget responsibility
- procurement
- human resource responsibility
Lessons Learned
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- sufficient preparation of UI/UX
- upfront implementing of architecture fundamentals
- ready to use SCM & continuous integration
- agile is inappropriate for a budget driven way
- agile self organisation is a challenge for previously strong guided employees
- project management is still required