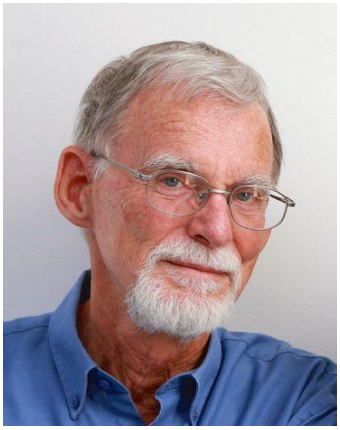
SL 2020-01-05

Project CV, Soren Lauesen



Personal Details

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Education

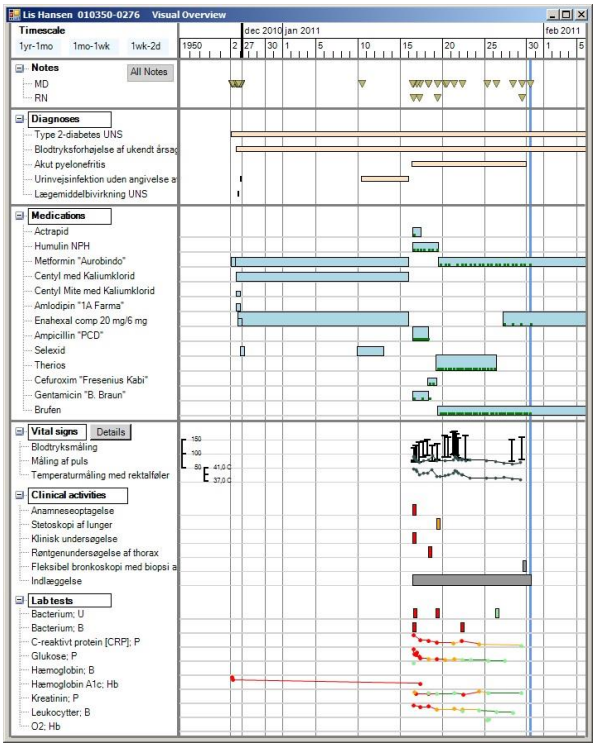
1960: High school, Denmark
1965: M.Sc., math & phys, University of Copenhagen
1979: B.Com.Degree, Copenhagen Business School

Core competence: Problem-oriented requirements and system acquisition

Requirements are a sore point in most IT projects, and agile development helps only a bit. Lauesen invented problem-oriented requirements around 2007 and has used them successfully in more than 100 projects. Traditional requirements describe what the system shall do. Problem-oriented requirements (SL-07 requirements) describe what the system is to be used for and which problems to remedy. These requirements allow the supplier to use what he has and show how his solution handles the problems and supports the users.

The customer can assess how well the solution does this, and use it in the supplier selection. The approach has many other advantages: Five times shorter, five times faster to write, five times faster to reply to, business goals met. Disadvantage: It takes a week to learn writing SL-07 requirements. See more on Lauesen's web site, for instance complete problem-oriented requirements specifications.

Lauesen can write the full requirements specification with stakeholders as a source, get proposals, select the winner and manage the acquisition and deployment. Or he can support you and your staff doing it.



Second competence: UX - designing efficient user interfaces for professionals

User screens are another sore point in IT projects. Lauesen invented an approach for designing user interfaces with a minimum of screens, and consequently good data overview, efficient use and fast development. The picture shows an example: a screen with all medical data for a complex patient. See other examples on his web site.

Lauesen's working style

Lauesen finds the root problems and deals with them. Helpful, constructive and innovative. Knows many application areas and learns new ones fast.

Employment

1962-73: Software developer, Regnecentralen (Danish computer manufacturer).
1973-76: Software developer, Brown Boveri, Copenhagen (now ABB).
1974-75: Consultant for ILO in Ghana (Africa).
1976-79: Visiting professor and department manager, University of Copenhagen.
1979-85: Software developer and department manager, NCR, Copenhagen.
1985-99: Professor and department manager, Copenhagen Business School.
1999-2019: Professor, the IT University of Copenhagen.
2019 - : Professor emeritus.

Major projects

1962: Regnecentralen (Danish computer manufacturer): Cracked the Nimbi game invented by Piet Hein and made it a computer game.
1963: Regnecentralen: Developed a system for molecule shape calculation, based on X-ray dispersion.
1965-73: Regnecentralen: Designed and developed compilers and real-time operating systems.
1973-76: BBC (now ABB): Designed and developed process control systems for national power distribution.
1974-75: ILO: Advisor to the Ghanaian government on IT issues.
1979-85: NCR: Developed a secure operating system that could be updated on the fly.
1982-85: NCR: Developed and implemented a novel approach to software quality assurance.
1984-88: NCR: Invented and developed a very-high-level application language based on a bi-temporal database.
1985-2019: Copenhagen Business School and the IT-University: Developed novel requirements methods and UX methods.
2001: Saxotech: User interface design of their new system for newspaper production.
2003: Fyns Amt (Danish region): Requirements specification for an Electronic Health Record system, covering all hospitals in the region.
2004-05: Rambøll and the State Lawyer: Wrote an exemplary requirements specification (for an Electronic Health Record system) to be used in combination with the government K02 contract for acquisition of IT systems.
2007-13: Invented and developed a tool (Uvis) for constructing complex user interfaces based on spreadsheet-like formulas. The tool is suited for domain experts. The health-record screen above was made with this tool.
2009-14: DSB (Danish State Railways). Multiple requirements specifications.
2009-15: The National Danish Auditors: Multiple investigations of project failures in large Danish government projects.
2010-19: Investigated project failures in large IT projects and cures to avoid them.
2010: The ministry of social affairs: Requirements specification for case management and support of exposed young people.
2010: IT-University of Copenhagen: Requirements and acquisition of a new CMS.
2013: Velux Foundation: Requirements specification of a grant management system.
2013-15: The Danish Police. Multiple requirements specifications.
2014-15: Y-Foundation (anonymous): Requirements specification and project management for a large foundation, including grant management, public web site, payment management, and integration with banks and tax. Requirements, the supplier's proposal, disputes and other project details are available at http://www.itu.dk/people/slauesen/SorenReqs.html#Y-Foundation
2014: IT-University of Copenhagen: Requirements and acquisition of a new case management system for all university affairs.
2015: Brunata A/S: Requirements specification and conflict resolution for reading

calorimeters.
2017: LeoPharma: Requirements specification for transition to the new European medical documentation standard.
2019: Aarhus Municipality: Requirements specification for a course management system (20,000 courses a year).
2019: The castle and culture department: Requirements for migrating records of 500,000 archeological findings from 200 tables to 20.

Courses for IT professionals

1996-2010: CBS and the IT-University. Courses in user interface design. Not only usability issues, but also how to get from the user's work situation and data model, to efficient screens and their implementation. Focus was on professional users.
2006-19: The IT-University: Courses in software requirements and acquisition for students and professionals. During a semester, participant teams specified requirements for a real system of their own choice. Assessment was done by industry consultants. In this way, Lauesen supervised around 20 real projects every year.
2006-08: IBC Euroforum: Multiple courses in problem-oriented requirements specification.
2008: Software Education Associates, Australia: Course in problem-oriented requirements specification.
2008: Aloc, Odense: Course in problem-oriented requirements specification.
2018-19: Bech Bruun: Multiple courses in IT-contracts and problem-oriented requirements specification.
2018-19: Insight Events: Multiple courses in IT-contracts and problem-oriented requirements specification.

Sample of supervised requirements projects

1. Knowledge management and workflow in an insurance company.
2. Management of recycle sites.
3. Support for on-boarding new employees in a large engineering company.
4. Support for department managers in a large software house.
5. Warehouse management for storing and renting out movie production equipment, particularly odd sizes and shapes.
6. Internal, coordinated booking of resources in a hospital.
7. Managing drone courses and certificates.
8. Recording and reporting environmental data in a large pharma company.
9. CMS for the Danish defense.
10. Support for Olympic Games.
11. Knowledge management in a patent office.
12. Supervision and preventive maintenance of windmills.
13. Support for vet clinics (i.e. animal health record system).
14. Support for the work inspectorate (Arbejdstilsynet).
15. The ideal restaurant support system.
16. Care hero: Support for staff in old-age homes.
17. Support for hotel receptions.
18. Managing aviation-training courses.
19. Managing physical items in police investigations (the Danish Police).
20. The ideal support system for cinema employees.
21. Duty roster planning for the Copenhagen Airport.
22. Support for fishery inspection (the ministry of fishery).