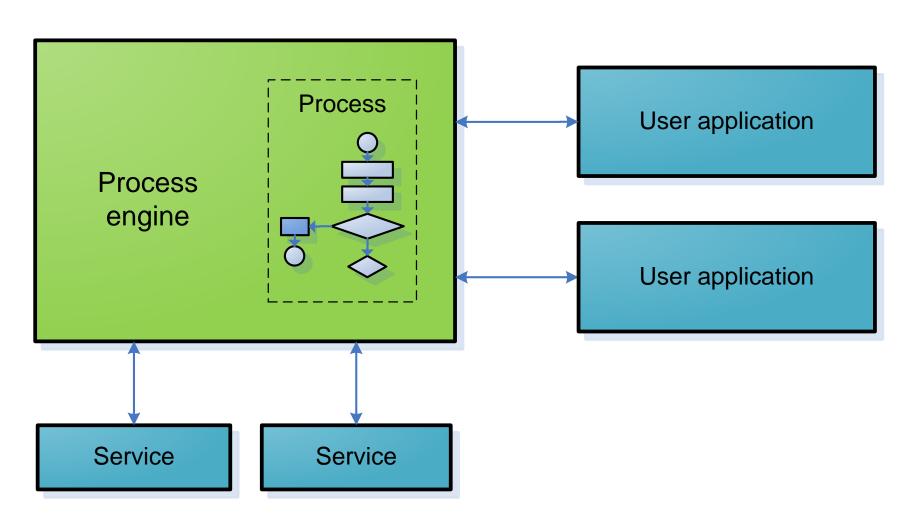
Business Processes and Human Interaction

Mario Aparicio (Tor Arne Kvaløy)

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The message

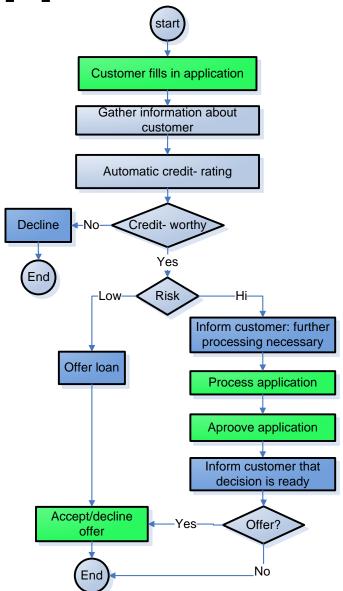


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What's in it for you?

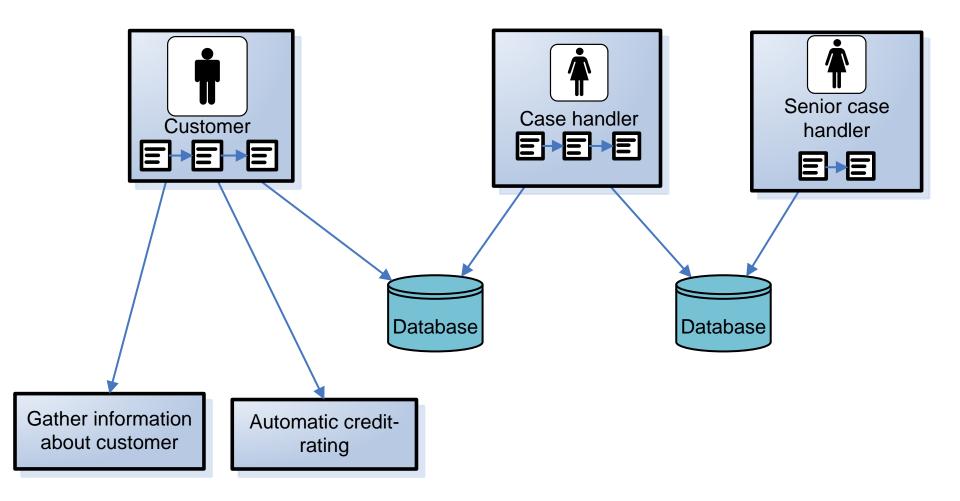
- Learn about processes and human interaction
- That it is possible to make use of business process management software in a user application
- How to do this
- Suggestions on when it is a good idea to do this

Loan application - overview

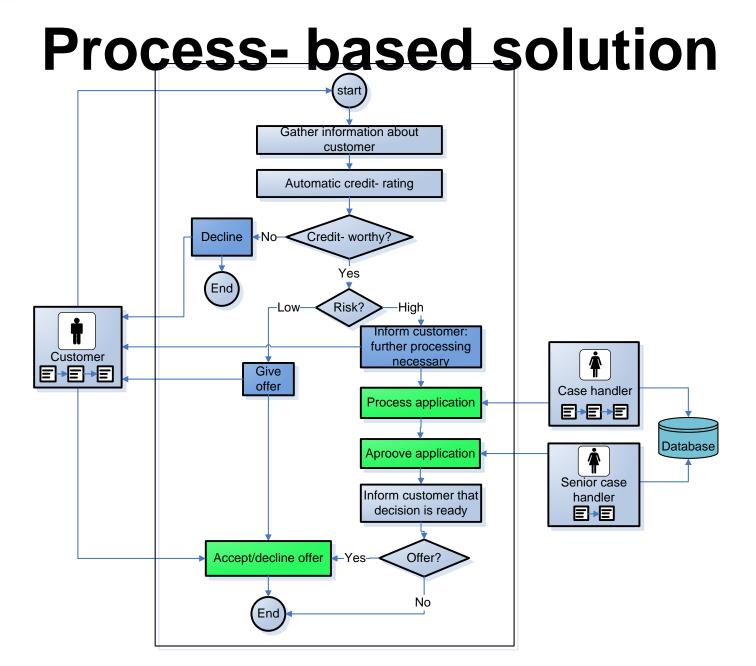




Standard client/server solution



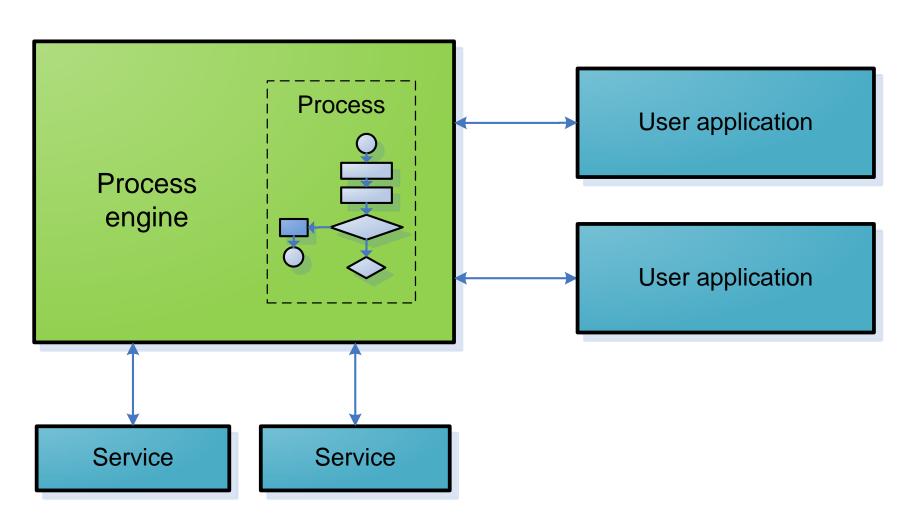




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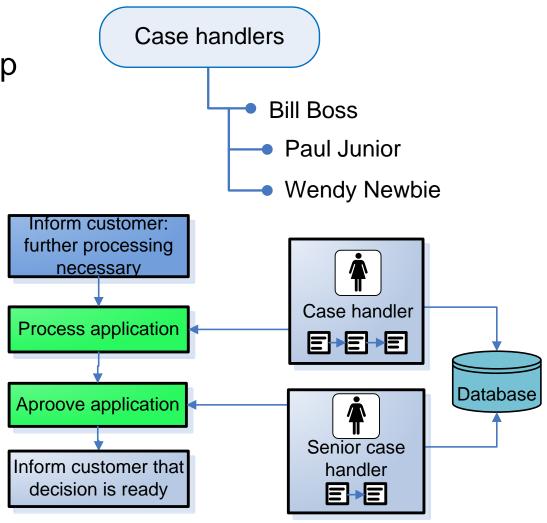
Process engine





Human interaction steps

- Person and/or group
 - LDAP
- Worklist API
- Tasks and states
 - Available
 - Checked out
- Task- info
 - Creation time
 - Check- out time
 - Priority
 - Deadline



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Escalation

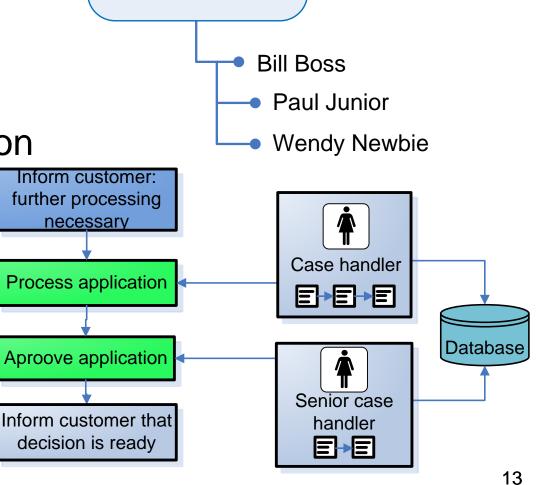
Case handlers

Timebased

Escalation

to grup or person

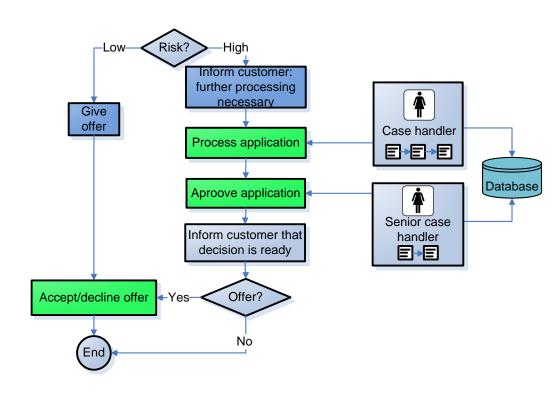
- send email notifications





Responsability and data

- Process
 - flow and state
 - what and when
- Application
 - How
 - Business rules
 - domain data
- Process needs some infromation from app.
 - Controlling the proces
 - Giving the right messages to the applications



Pros and cons

Pros

- Centralized control of flow and state of the business process
- More flexible business process
- Integration with other systems is easier
- Visual model of the real world business process
- Attain information about ongoing business processes (BAM)
- Can make the applications more statless

Cons

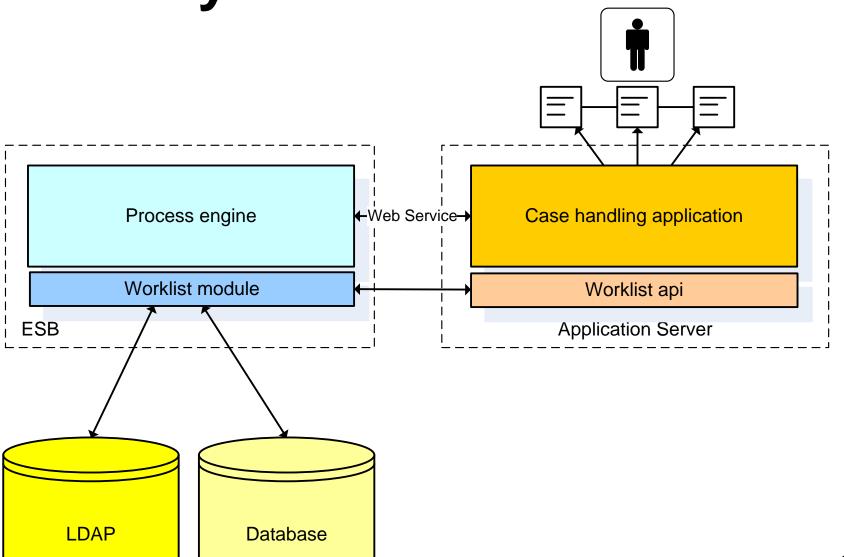
- Higher complexity in the beginning
- New technology
- Have to rely on the process engine to get the applications to work.

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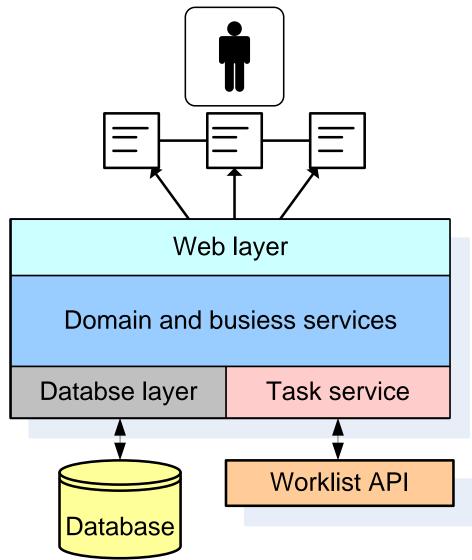
When and when not to use?

- When to use
 - Multiple systems
 - Multiple human steps/interactions
 - Complex business processes
 - Processes that change often
- When not to use
 - Small and simple systems
 - Real- time systems
 - Stateless systems

System architecture



Application architecture



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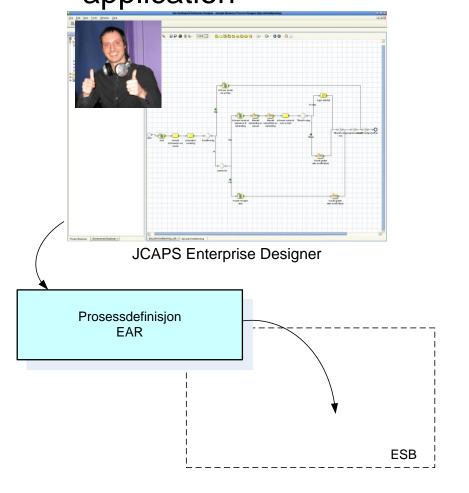
Challenges and solutions

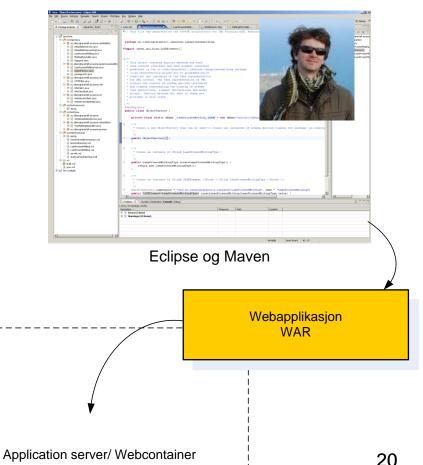
- Development and deployment
- Upgrading the process
- Business process granularity vs. human tasks
- Testing
- Integration with user- applications
- Vendor lock in



Development and deployment

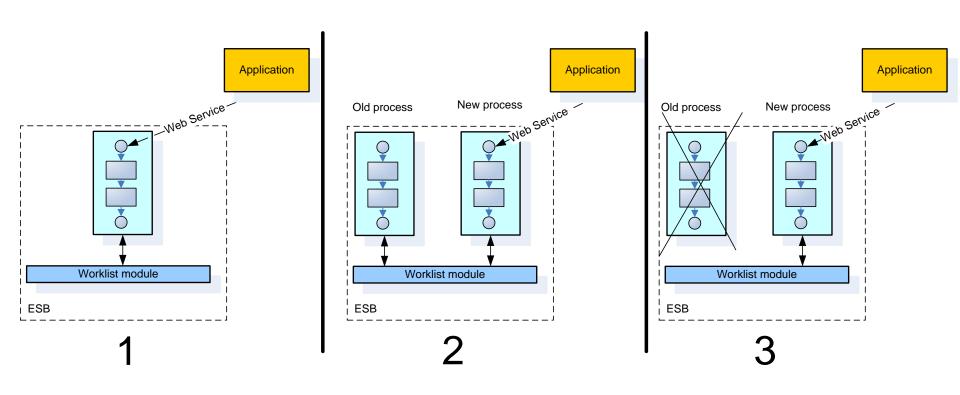
 The process is developed separate from the Webapplication



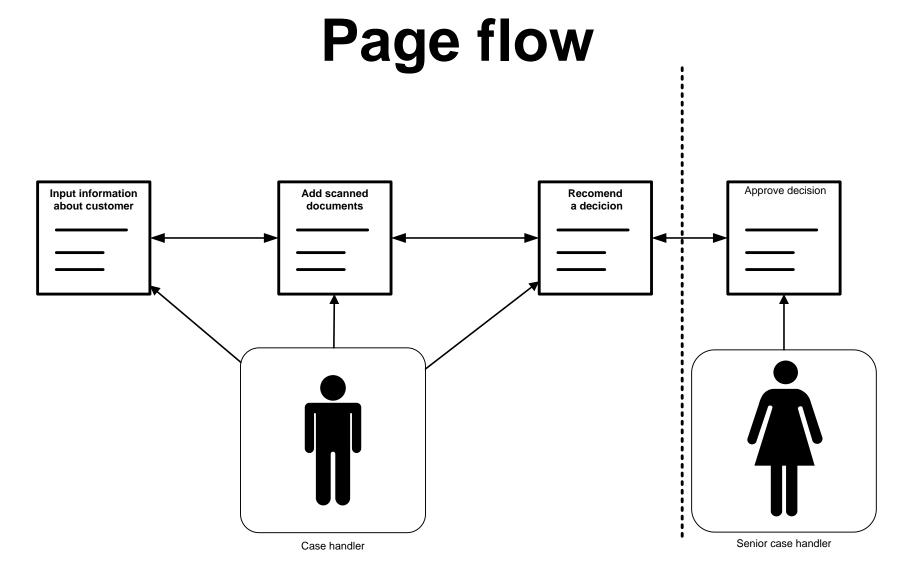


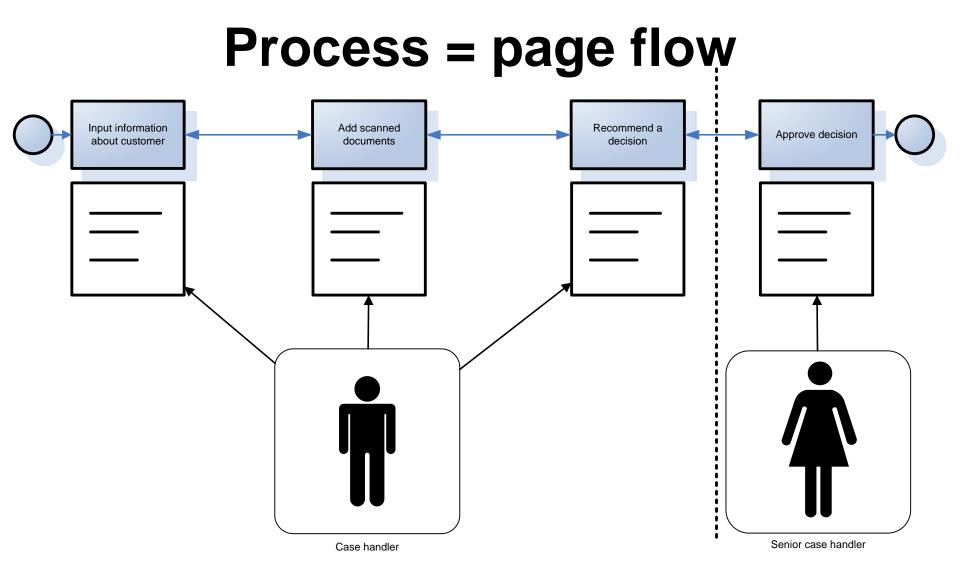


Upgrading the process



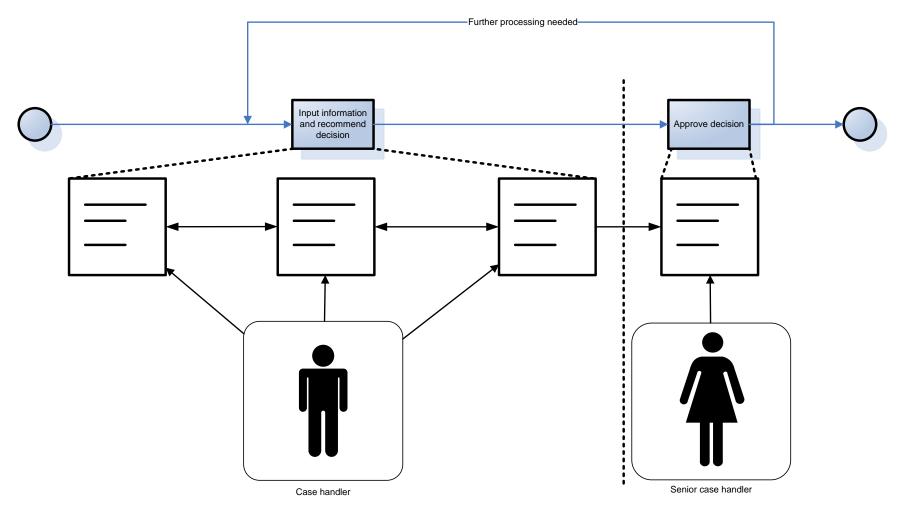
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Process ≠ page flow



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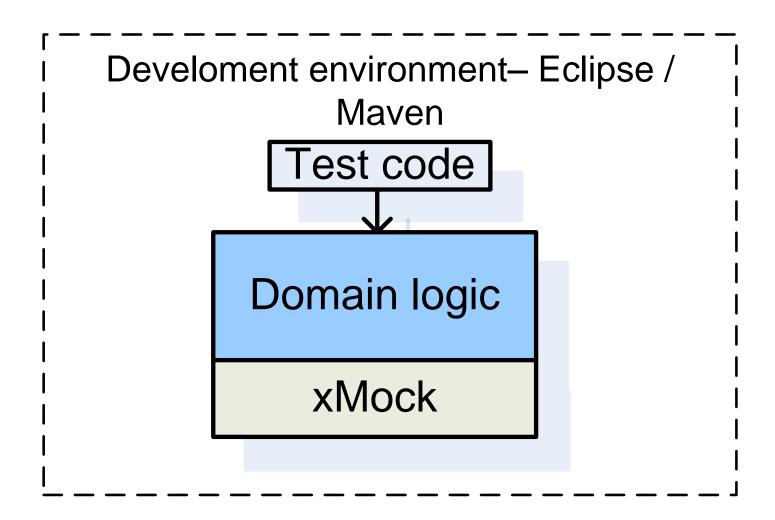
Testing

- Problem:
 - In container- testing
 - Requires:
 - ESB-server
 - Webcontainer
 - database
 - LDAP
 - Eclipse and Enterprise Designer
- Løsning:
 - Develop and test the application separete from the business process

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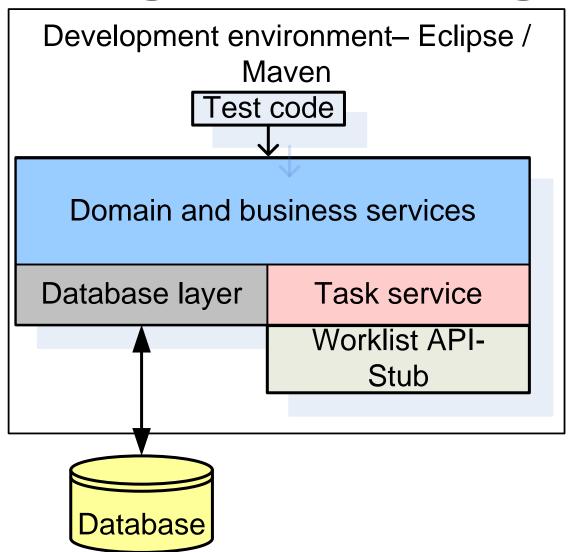
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Unit testing

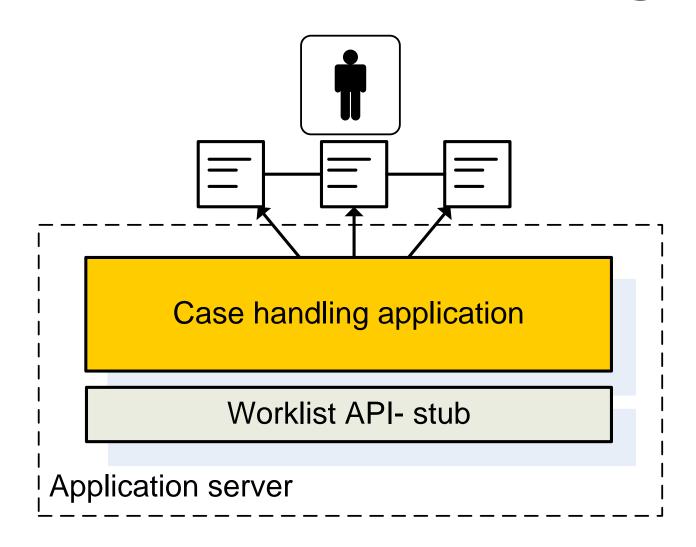


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Integration testing



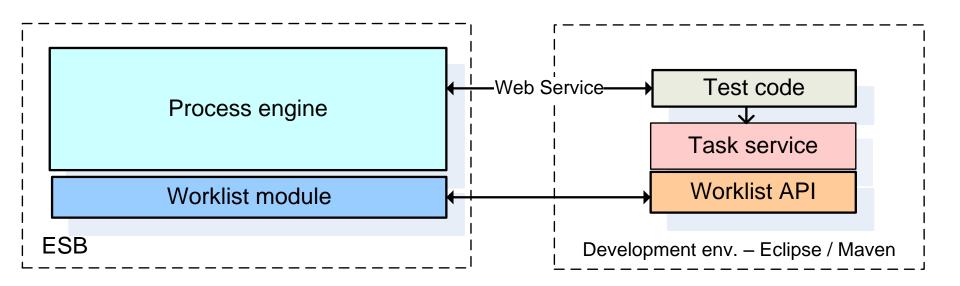
User interface testing



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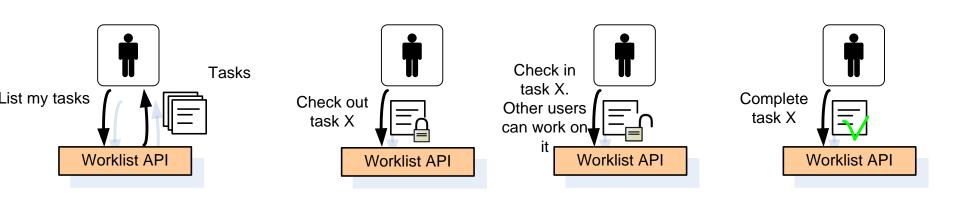
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Testing the business process



Integrating with the web application

Worklist API



"Direct access" API

Vendor lock in?



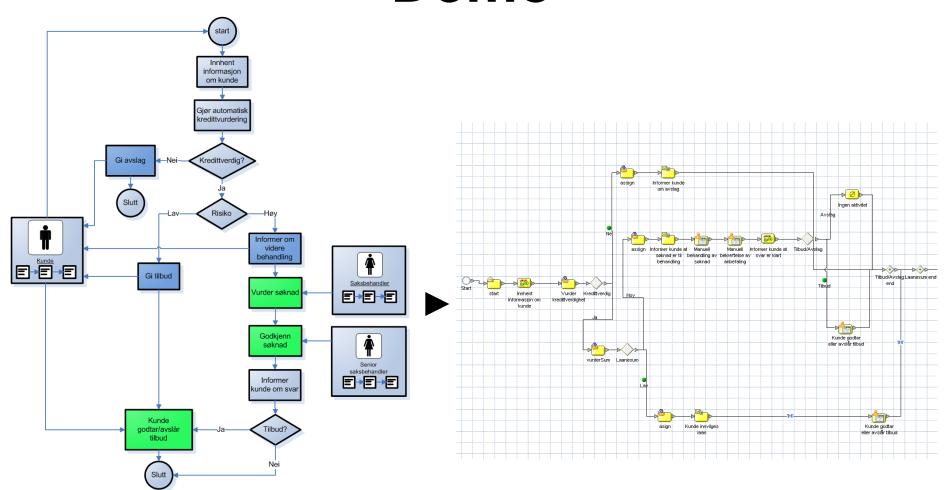
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Demo

- Process implemented with Sun JavaCAPS
- Application
 - Standard Java Web application
 - -JSF
- Work List Manager API
 - Part of Sun JavaCAPS

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Demo



Custom made Human Task API

 You can develop your own "Human Task API". Just need some way to communicate asyncronously with the application.

