People Behind the Testing Tools and Frameworks

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Who we are…

... Ranorex Mission
Focus: Functional UI Test Automation

Ranorex Studio

Application Technologies

API

ANY TECHNOLOGY: ROBUST AUTOMATION, BROAD ACCEPTANCE, SEAMLESS INTEGRATION, QUICK ROI
2,000+ Customers
10,000+ Users
Ranorex Offices

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Ranorex Mission
“Enable testers rising to meet their everyday challenge of automated testing.”
Drivers for Test Automation
Waterfall Approach

Project Timeline

1. Analysis
2. Requirement Specification
3. Design
4. Implementation
5. Testing
6. Delivery & Maintenance
Drivers for Test Automation

» Software is already delivered
» Bad quality feedback from client
» „We haven‘t tested well enough…
» … because of time pressure.“
» „No time? – Automation Helps!

Driver: Management
Drivers for Test Automation

Agile

- Testing
- Shippable Product
- Analysis
- Specification
- Design
- Implementation
Drivers for Test Automation

Agile Approach

Driver: Dev Team

Sprint 1

Sprint 2

Sprint n

Project Timeline
Roles Between Two Extremes?

User Base

Domain Tester

Waterfall/V-Model

„Water-gile“

Agile

Technical Tester
» Test automation on code level

» Ranorex API power user

» „I‘m a frameworker – I don‘t want to depend on anything“

» Deeply integrated with SW development process

» Ranorex Studio often not in use

» Nearly no Ranorex support needed
  -> Community-driven
Domain Knowledge – Representing the User

» Often separated from dev team and processes

» “In love“ with „Record“ button – Capture & Replay

» Afraid of code
Roles Between Two Extremes

User Base

Domain Tester

Waterfall/V-Model

Technical Tester

Test Manager
Test Analyst
Business Analyst
Support Engineer
Release Manager

Test Engineer
Software Developer
Test Automation Specialist

Level of Automation
LOW
MEDIUM
HIGH
<table>
<thead>
<tr>
<th>Munich RE</th>
<th>SIEMENS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope: Internal IT (SAP, HTML5, .NET)</td>
<td>Scope: Tomography-Software (.NET, MFC)</td>
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<tr>
<td>Dev-Approach: Multiple vendors</td>
<td>Dev-Approach: in-house, „Watergile“</td>
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<tr>
<td>Tools for QA: Ranorex, HP QC, Microsoft TFS</td>
<td>Tools for QA: Ranorex, Microsoft TFS, in-house solutions</td>
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<tr>
<td>TA-Team: Internal + External</td>
<td>TA-Team: Internal</td>
</tr>
<tr>
<td><strong>30%</strong> Technical Tester</td>
<td><strong>90%</strong> Technical Tester</td>
</tr>
<tr>
<td><strong>70%</strong> Domain Tester</td>
<td><strong>10%</strong> Domain Tester</td>
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Challenges for Tool Vendors

#1: Multiple UI technologies, multiple suppliers + shorter release cycles

#2: Test maintenance

#3: Finding the right people
How to control software quality?

BUILD?

BUY?

OUTSOURCE?
What’s needed?

- Tools assisting with “Design for Testability” (for in-house development)
- Automation frameworks delivered with solutions (outsourced development)
It was a shock to his master when he realized, robots need maintenance, too.
What's needed?

- Smart ways to create out of the box UI maps at design time
Finding the Right People

Domain Tester

Test Automation Expert

Developer
Automation Expert – Skill-Set

» Scripting/Development Background

» Ranorex Knowledge

» Tools & Processes
  » Continuous Integration
  » Test Management

» Communication Skills
Who uses Ranorex
Questions?
Thank you for your attention!

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