

Nordic Testing Days 2014

Sharing the experience



Sharing the experience through Session Based Test Management (SBTM)

Aare Nurm

aar@bang-olufsen.dk

SW Test Lead at Bang & Olufsen OÜ

Tallinn

2014

Agenda

- **Session Based Test Management (SBTM), what is it?**
- Tools I have used
- Sharing the experience through SBTM
- Examples of session reports and debriefs
- Questions

Session Based Test Management

- Invented by James and Jonathan Bach
- Way to give structure to exploratory testing
- Gives the possibility to report status about the testing
- Gives the possibility to estimate future testing
- Gives the possibility to share experience!

Structure for exploratory testing (1)

- Testing is divided into sessions
 - Fixed time
 - Uninterrupted testing time
- Session reports
 - Path/charter/goal
 - Activities
 - Errors/Remarks
 - Time

Structure for exploratory testing (2)

- Debriefs
 - Report correctness
 - What and how was done, does it align with session path?
 - What obstacles, bugs, remarks arised
 - What are next actions
- Example

Status reporting with SBTM

- Written activities to back you up
- Statistics based on work done
 - Time spent on testing and other activities
 - Paths covered
 - Errors and remarks found

Estimations based on SBTM

- Each tester can do a certain amount of sessions per day (we are using 90min. sessions)
- Each task can be estimated in amount of sessions required to cover the task
- We can estimate either how much time we need to test every task or how many tasks we can cover in given time
- Example

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Tools I have used for SBTM

- Standard text editors
 - Notepad
 - Word
- Freeware
 - Rapid Reporter
- Dedicated (inhouse) solutions
 - Sahtel 1.0 (drawer in English)
 - Sahtel 2.0

Example of session report in Word

Project title: Project title *Document:* Exploratory Testing
Session Form

Customer: Project customer *Responsible:*

Supplier: *Form:*

Exploratory Testing Session Form

Project and/or product :

Date/Time: **Latest software version:**

Path:

Duration: **Found Errors:** **Error ID:**

Path followed:

Testing Activities:

Issues:

Remarks:

Acronym: Project acronym *Page:* 1 of 1 *Ver:* 0.1 *Issued:* 01.05.2008

Example of session report in Sahtel 1.0

Report(18059) : Edit

User: Aare Num

PROJECT NAME

PRODUCT

SOFTWARE VERSION

PATH

Scripted

Start time: 2014-04-30 18:45

Other Activities (min)

Found Errors

Error Id

Testing Activities

Issues

Remarks

Path Followed

Example of session report in Sahtel 2.0

Session in work

Main info

User: AAR
Project:
Product:
Software version:
Path:
Automatic:

Activities

Time division

Start time: 18:49 30.04.2014
Total testing: 00:00:12
Setup:
Bug investigation:
Other activities:

Setup

Errors and remarks

Errors:
 ✘
Add new error

Add new remark

Apply

End session

Cancel

Delete

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Sharing the experience

- Experience = information
- We share the information constantly, but we may not explicitly think about it
- We should share the information purposefully whenever we see the opportunity!
- If we have goal to achieve we are more efficient

What can be those goals?

- Coach new person as tester
- Introduce new tester to a project
- Learn product or feature
- Desire to learn the testers mindset
- Need to improve the testing process
- What else?

How do we do it? (1)

- By reading session reports
 - From other products
 - From other people
 - From older sw versions
- By analyzing the statistics (errors, time, ...)
 - From other products
 - From older sw versions

How do we do it? (2)

- „Regular“ session debriefs
 - Progress oriented
 - Synergy must be present!
- „Focused“ session debriefs
 - Target oriented
 - Intensive
 - Subjective

Focused coaching debrief

- Checking the technicalities of the report
- Challenging the selected path, approaches and techniques
- What would I have done in this situations
- Going deep into specifics
- Taking a broad view over several products
- ...

Learning about the product

- Found errors
- Raised remarks
- Emotions
- On debriefs mostly „How“ questions

Learning the testers mindset

- Observation of patterns
 - Paths selected
 - Errors found
 - Techniques used
 - Time spent
- On debriefs mostly „Why“ questions

Debriefers as a hub

- Debriefs are made one on one, but there are usually more people in the team
- Debriefers must constantly evaluate and share the gathered information by any means available

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Examples

- Debriefing a junior tester
- Debriefing a senior tester
- Debriefing to get to know the product

Debriefing a junior tester

Product: BeoVision8-40 Software version: Build 26

Path: Different video signals using Quantum Generator

Start time: 2008-11-05 8:29 End time: 2008-11-05 13:16

Other Activities (min): 180 Duration (min): 106 Path Followed: Fully
Found Errors: 0

Testing Activities:

Testing VGA & HDMI video signals using quantum video generator.

Remarks:

- 3 hours of "other activities" was spent searching for equipment & learning to use it.
- Saw some flicker on screen but in general all seems to be okay 😊

Debriefing a senior tester (1)

Product: BV10 - DVB-TCS Software version: 0.1.6.0.3

Path: EPG (Electronic Program Guide) functioning

Start time: 2010-12-29 9:34 End time: 2010-12-29 10:51

Other Activities (min): 5 Duration (min): 72 Path Followed: Mostly
Found Errors: 2 Error Id-s: 103603, 103604

Testing Activities:

General usage of EPG, view future programs, use one channel view,
use update EPG, more info, fast /wind/ /rewind/ in EPG

Debriefing a senior tester (2)

Issues:

103603 - Wrong date in EPG "more info" (month change)

103604 - EPG cursor gets stuck in loop

Remarks:

- When entering EPG and starting to /wind/ on some occasions EPG page stops and cursor disappears. Needs more investigation.
- With robust /wind/ and /rewind/ in EPG -> seen twice that some EPG program blocks disappear.
- EPG -> one channel view -> tomorrows program -> /digit/, displays present date.

To get to know the product (1)

Product: BS3 & BV12(65") Software version: Build 1007

Path: 3D selection = manual

Start time: 2011-12-20 9:28 End time: 2011-12-20 11:02

Other Activities (min): 15 Duration (min): 78 Path Followed: Fully

Found Errors: 1 Error Id-s: 114816

Testing Activities:

Selecting 3D source when 3D selection is manual, source changes, from std.by, toggling 3D/2D, std.by cancel, auto color management, clock, source change between two FramePacked 3D sources.

To get to know the product (2)

Issues:

114816 - 720pFP3D - clock OSD cropped from minute side

Remarks:

- Seen HDCP noise when switched from 720p to 1080p
- Seen that after s-b-s 3D on analog TV -> 1080p FP2D -> stayed in 3D s-b-s on FP content
- Possible to set signal information to FP2D - should be known
- Weird HDCP noise when switching between two 720pFP sources, needs investigation

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Questions

- Hopefully we have some answers too 😊