

Software Testing

Lesson 3 Testing in Software Life Cycles Feedback to Homework V2.0

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Feedback to Homework 03

- Agreement by fellow student
 - Test strategy has to be accepted by the customer.
Feedback from customer?
 - Communication
Exchange with customer is highly recommended
(Review, questions, ...)
 - Goal should be positive feedback.

“Your work seems to be very good. Well done”

“Your overall test strategy is splendid. I Approved.”

Updated



Feedback to Homework 03

- Agreement by fellow student
 - Documentation of agreements:
Good example:

“Problem

*Which Interface Language
shall be used?*

Proposal

English

Customer's Response

Proposal Accepted”

- Good: Prioritization



Feedback to Homework 03

- Basic information
 - Test strategy about what?
Please name the software product you are going to test. It is important to know exactly the test object.
 - Refer to the announcement that is the input for your test strategy.
 - Clearly state, what are assumptions.
 - In case: List of open questions.
 - Nice to have: Management summary



Feedback to Homework 03

Out of ISTQB glossary:

- Test strategy
 - A high-level description of the test levels to be performed and the testing within those levels for an organization or programme (one or more projects).
- Test approach
 - The implementation of the test strategy for a specific project. It typically includes the decisions made that follow based on the (test) project's goal and the risk assessment carried out, starting points regarding the test process, the test design techniques to be applied, exit criteria and test types to be performed.



Updated

Feedback to Homework 03

- What are the highest risk areas you identified?
 - Please identify the highest risks of the application.
Not correct:
“UI component test cannot make sure that cover all defects because test by manual test (tester not computer)”
 - Don't keep topic risks empty – better “wrong” than nothing.



Feedback to Homework 03

Example

- Test approach
 - Execution of about 20 functional test cases.
 - Testing on IE7, FF26 on Windows 7 with Samsung Galaxy S4
 - Test data: BigExampleFile.doc; EncryptedExampleFile.zip
 - Small performance test: Measurement of time needed for 3 test cases
- Test criteria
 - Test will be finished, when all 20 functional test cases have been executed and performance test has been done.
- Constraints
 - No defect management considered.



Feedback to Homework 03

- Proposal: Numbering to ease communication.
Instead of
 - *reliability,*
 - *security,*
 - *safety,*
 - *usability,*
 - ... better
 - 1. *reliability,*
 - 2. *security,*
 - 3. *safety,*
 - 4. *usability,*



Feedback to Homework 03

- Test cases
 - Attention: No general words like “good quality”
To be improved:
“Test case 1 : Open on many browser on the good quality”



Feedback to Homework 03

- Test tools
 - Name the test equipment you would like to use:
Samsung Galaxy S4, iPhone 5S 16GB, ThinkPad X1 Carbon Ultrabook with Windows 8
 - Name the test tools you are going to use
Wireshark 1.10.5



Feedback to Homework 03

- Version control
 - Very good: If you deliver an updated version, include a change log
 - (v1.1) added section about safety, added this changelog, and updated the performance section to include data to record.
 - (v1.0) initial version of the test strategy



Feedback to Homework 03

- Format
 - Use formats like html, pdf, docx, doc
 - Attention if you use a spread sheet.
Difficult to announce a test strategy.
Good to show requirements, test cases.
 - Avoid unusual formats like .md



Feedback to Homework 03

- Effort estimation
 - Estimation differed a lot – some hours up to several weeks.
 - Assign hours to tasks; good:
“Usability: Since WordPress is a large software, this will take a lot of time, say, like 40 man-hours.”
 - Announcement, if you calculate e.g. in man weeks:
Based on the assumption of 40 hours / week.
 - Good: Considering tester experience
“one week of testing for one experienced software tester, two weeks for a beginner”

Feedback to Homework 03



Updated

- Effort estimation
 - Estimation not accepted: Too less!
... means something like “*topics missed or underestimated*”
⇒ Customer is cooperative – very good
 - Estimation not accepted: Too much!
⇒ Better reasons requested
⇒ Communication with customer necessary

Backup





Homework (1/4)

1. Forward your announcement out of homework 01 to your fellow student, appearing two lines below your entry in “KU Studentlist 219343 2014”, e. g.

No. Id			No. Id	
1	5410545036	→	3	5410545061
2	5410545044	→	4	5410545079
...				
28	5610043428	→	1	5410545036
29	5610045410	→	2	5410545044

2. Ensure that you got an announcement out of homework 01 from your fellow student, appearing two lines before your entry in “KU Studentlist 219343 2014”.
Send a gentle reminder in case.



Homework (2/4)

3. Review the announcement from your fellow student and try to clarify all open questions so you could develop a test strategy.
 - a) Problems
Please identify open questions / requirements in the given announcement and list them, e.g. in an excel sheet.
 - b) Proposals
For constructive proceeding suggest assumptions concerning your open questions.



Homework (3/4)

4. Based on the final announcement after review and update, develop a test strategy.
 - a) What requirements should be tested?
 - b) What are the highest risk areas you identified?
 - c) What would be your test strategy?
 - i. Test approach – Major test actions
 - ii. Test criteria – Quality measure, exit criteria
 - iii. Constraints – Tools required, test exclusions
 - d) How much effort in man hours you calculate?



Homework (4/4)

5. Get an agreement from your fellow student, that your developed test strategy fits to his announcement. In case overwork your test strategy, until you get a common understanding.

Send your final test strategy until end of week to uweguehl@hotmail.com