Software Test

Lesson 4
Homework – Feedback

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Homework

1. Download from
   https://mike.cpe.ku.ac.th/~uwe/01219343

   – Test case template (Template_TestCase_v1.0.xlsx)

2. Please enter in the test case template for committed 3 requirements / 3 risks test cases into the template.
   For every requirement / risk enter please at least two test cases

   – 1 positive test case (testing the good case)

   – 1 negative test case (testing erratic behavior)

Homework

3. Ask your fellow student for review and approval.
   Approval means: Your fellow student could execute the test
   Approval should be sent be e-mail to you.

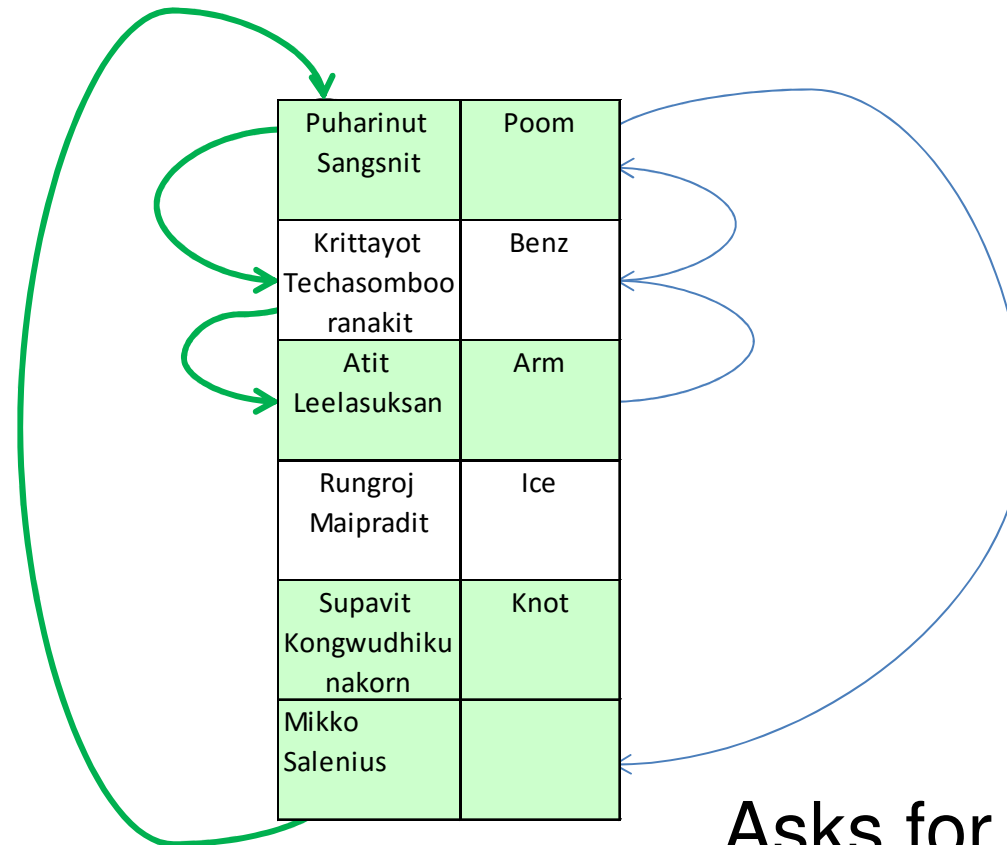   – Approval should be done by the student listed in the student list above you.
     The first student chooses the last

4. Send both documents (template and approval) until 09.03.2016 to uweguehl@hotmail.com

Homework

Puharinut Sangsnit	Poom
Krittayot Techasombooranakit	Benz
Atit Leelasuksan	Arm
Rungroj Maipradit	Ice
Supavit Kongwudhikunakorn	Knot
Mikko Salenius	

Approves

Asks for approval

Homework – Feedback

- General:
  - What is a load test?
    Testing with a specific number of virtual user to test system behavior under load.

  - What is a stress test?
    Means normally extending incrementally the load until system fails

Homework – Feedback

- General:
  - Attention with editing a template
    Inconsistencies possible

Homework – Feedback

- System under Test Title, version should be mentioned.

System Under Test	
	/ Name of System Under Test to be entered */*

System Under Test	
	Game - Ahntrolan / exact which version? */*

Homewerk – Feedback

- Tests should make sense. Risk: Server shutdown

  Test if server is alive

  …
  Type in command "ping 188.166.180.204"

  …

  => This is not really a functional test, it is more an administrators activity
  => Depending on the offered solution a test should be designed and executed.
  E.g.: Solution: Tracing on a log file every hour "I am alive".
  Optionally: Warning messages depending on parameters
  Test idea: Start server, random automated website access, after 24 hours check of log file.

Homework – Feedback

- Tests should make sense. Risk: Server shutdown

  Test if server is not alive
  …
  Type in command "ping 188.166.180.204"
  …

  => This is not really a functional test, it is more an administrators activity
  => Depending on the offered solution a test should be designed and executed.
  E.g.: Solution: An alarm will sent to admin@ in case.
  Test idea: Force the server to shut down, check, if mail has been sent.

Homework – Feedback

- Priority: Only a minority of the test cases should have priority "1 = high"
  => else difficult to decide what test cases to start with

- Most test case should have priority "2 = medium"
  - About 10 to 20 % "1 = high"
  - About 50 to 70 % "2 = medium"
  - About 20 to 30 % "3 = low"

Homework – Feedback

- Role: Public person, public user
  => Difference?
  => Use unambiguous roles

- Role: User
  => Too general

- Role: Game tester
  => Not a real role, maybe "Player"?

- Role and test scope should match

  – Role: System Admin.

  – User fill sign in form with string length > 25 character.

Homework – Feedback

- Precondition: Google Chrome or Firefox

  => Do two test cases, one for Chrome, one for Firefox
  => The more browsers to test, the more
  - test automation should be considered
  - a test strategy should be developed (testing pair wise)

Homework – Feedback

- Precondition for
  " Website render Thai text"

10	*No precondition*

- Proposal: Offering test data contenting Thai text / characters

Homework – Feedback

- Precondition
  Game is already loaded and running on the device.

  Which device?

Homework – Feedback

- Precondition
for test
Game resolution function for the GUI on supported devices like wide screen phone.

=> Risk: All devices to be tested

Proposal: Add preconditions:
  - Exactly which devices?
  - Requests like specific iOS / Android version

Homework – Feedback

- Precondition
  for test
  Game resolution function for the GUI on unsupported widescreen devices like the tablet

  => Risk: All devices to be tested

  Proposal: Add preconditions:
  - Representative for not supported device?

Homework – Feedback

- Test must not be too general
  Which test to execute?

  0 role
  10 precondition

20	*Run junit test from selenium.*	*Due to driver doesn't support it need to test by manual.*

Homework – Feedback

- Tests must match with requirement

- User fill form with SQL injection.
  - User fill sign in form with string length > 25 character.
  - User fill form with special character that is not allowed

  ➔ Really tests to test SQL injection?!

Homework – Feedback

- Step: Choose Samsung as option and leave search field blank, press search

  => Use column "Test Data" to address test data

Homework – Feedback

- Step: Concrete
  Trying to fill non traditional character
  → What is this?

  => Use column "Test Data" to address test data

Homework – Feedback

- Step: Concrete

30	*Wait for the game to load*	*The dark screen disappear and the player find himself at the "Play scene"*

How long to wait?

=> Test ends
No proceeding?

Homework – Feedback

- Step: Not too complex

  Entering first name, last name, e-mail address, password, password confirmation, date of birth to the field in Thai

  => E-mail address in Thai?

Homework – Feedback

- Step: Not too complex

  Entering first name, last name, e-mail address, password, password confirmation, date of birth to the field in Thai

  => Which data to enter?
  Use column "test data"
  → Interesting for intense entry field testing

Homework – Feedback

- Step: Choose Samsung as option and choose options that have characteristics none of the Samsung robots have

  => How does a tester know?

Homework – Feedback

- Step: Complete tests
  What happens / should happen, if user tries to type more character?
  Copy / paste?

Trying to fill long text into email address field.	*Maximum number of text can't go beyond 25 characters.*

Homework – Feedback

- ## Step: Complete tests

  Really last step of a test case?

	Dialog box appears saying that you haven't entering any information
Click on sign up button	

Homework – Feedback

- Step: Negative tests
  Really expected system behavior?

20	*Calling webpage and select novel.*	*Show all novel in website.*
30	*Choose novel from the list.*	*404 File not found.*

Homework – Feedback

- Step: Negative tests
  How could this be tested on purpose?
  What is the idea of the test?

20	*With running browser, Reader browse to localhost mount with Online Reading Platform system*	*Browser response with Connection timed out error.*
30	*No postcondition*	

Homework – Feedback

- Finishing a test case.
  How should a test finish, if error occurs?

50	*Fill a data with text longer than 100 characters for name, "Sci-fi" for category, leave image blank. Then click "Create" button*	*Browser render a page with previous form included data and display a cause of error in red text under name field "Name should not longer than 100 characters."*

Homework – Feedback

- Post conditions for web pages
  => Idea: Tracing of user searches? Cookies?
  Changes for future searches?

Homework – Feedback

- Post condition: Webpage still works normally

  => What does it mean?