Computer assisted interview Testing Tool (CTT)
- a review of new features and how the tool has improved the testing process

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13th International Blaise Users Conference – Baltimore, USA
Overview


• Recent updates - demonstrate the new features.

• The current testing process - benefits of using the CTT
What is CTT?

- CTT is a comprehensive tool designed to be used by all involved in the testing process (programmer, tester, coordinator and clients) from beginning to end.

- Developed to to manage and facilitate efficient testing of Blaise questionnaires.
Key components

- **Automated testing tool**
  - Tool captures comments and information about the testing process in a ‘bug log’ - bug item prioritization.

- **Problem management screen**
  - A functional dashboard – all information about any issue is stored and can be accessed from this screen.

- **Report generator**
  - Reports can be run by all involved and as required.
Key components

- **Pre-load builder**
  - Used to enter or load any data required to test the instrument.

- **Random case generator**
  - Tests questionnaire routing using test cases created using random data – ensures all questions have been tested.

- **Administration**
  - Upper level functions – for example, setting-up projects, assign testers to projects, attach specific priorities to different problem types, import master preloads and assign access rights.
Recent developments

- Updated “Ribbon” user interface
Recent developments

• Updated functionality to the “Manage Problems” screen

• Demonstration
## SRO, SRC, ISR

13th International Blaise Users Conference – Baltimore, USA

### CAI Testing Tool (Version: 4.0.0.0) - [CTTManage]

#### Manage Problems

<table>
<thead>
<tr>
<th>Project ID</th>
<th>Problem ID</th>
<th>Unique Name</th>
<th>CAI Field Name</th>
<th>Date Entered</th>
<th>Priority Level</th>
<th>Problem Status</th>
<th>Problem Type</th>
<th>Sample ID</th>
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<td>yliu</td>
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<td>Fixed</td>
<td>Consistency Check</td>
<td>yliu0001</td>
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<td>pbatra</td>
<td>SectorA.A2</td>
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<td>Medium</td>
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### Problem Details

- **Problem ID:** 5743
- **Sample ID:** yliu0001
- **Created By:** yliu
- **Date Created:** 12/21/2009

#### CAI Field Name:

- **SectionA.A15a**

#### CAI Question Text:

- **Project ID:** YHs Local Blaise5
- **Problem Type:** Jump Destination
- **Assigned Person:**
- **Who Fixed:**
- **Who Tested:**

#### Problem Status:

- **Not Fixed**
- **Level of Priority:** High
- **Date Fixed:** 03/04/2010
- **Date Tested:**

#### Problem Description:

- **test problem description 33**
- **10/12/2010 10:25:00 AM**
- **10/13/2010 1:10:16 PM**
Recent developments

- Integration of BlaiseIS web-based testing
- Same functionality as “normal” Blaise CTT
  - Allows testing in different browser types
BlaiseIS CTT functions

• Reporting a problem within a BlaiseIS instrument
BlaiseIS CTT functions

• Updating the status of a problem (Fixed/not fixed)
Tester

• Direct access to the CTT
  ▪ One main bug log
  ▪ Tool ‘stamps’ comment with field name/path, testers name, attaches additional data – e.g. screen shot)

• Existing problem button
  ▪ Eliminate duplication of effort
May not need to talk through all these if Russ includes in the Demo.
Tester

- **Screen shots**
  - Especially useful when recording comments on screen layouts or strange display issues

- **Central creation of testing cases**
  - The manager can create a ‘master scenario’ for testing an instrument
  - Tester can save their own scenarios to re-test, so data does not have to be re-entered
  - A shared pool of master cases can be prefilled
Tester

• Remote testing
  ▪ Provides opportunity to use off site testers (clients, field interviewers)

• Sharing test cases
  ▪ Reduces time required to ‘recreate’ problems

• Targeted re-testing
  ▪ Ready to test report – no time wasted testing problems which have not been fixed.
May not need to talk through all these if Russ includes in the Demo

ISR, 9/30/2010
Programmer

- Consolidated list of problems
  - Lists all problems on one screen and in a standard format with all relevant information
  - Elimination of missing or incorrect variable names

- Reporting
  - Built-in standardized testing reports save programmers time
  - Can focus on highest priority items
  - Can easily print copy for offline use
May not need to talk through all these if Russ includes in Demo
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Programmer

• Identifying problems
  - The ability to sort and manipulate the list of problems helps identify similarities between problems and lead to further common problems being found.
Testing coordinator

• Control over the testing process
  - Previous job – managing conflicting Excel bug logs
  - Current job – acting as a filter for the programmers by prioritizing tester comments

• Setting up scenarios
  - Ability to save scenarios for all testers eliminates the need to specify testing scenarios
  - Coordinators or testers can save scenarios to be used by others.
may not need to talk through all these if Russ includes them in the demo.
ISR, 9/30/2010
Testing coordinator

- Managing problems
  - Just one list per project
  - List can be prioritized, sorted and allocated to programmers to fix from one place.
- Information about the testing process
  - Built-in reports allow the manager to access information on progress at any point
may not need to talk through all these if Russ includes them in the demo.

ISR, 9/30/2010
Objectives

• CTT was designed to…
  ▪ Improve the quality of CAI instruments through standardized testing procedures.
  ▪ Reduce testing costs.
  ▪ Increase access to information about the CAI development process through preset and ad-hoc reports.
Fulfilled all the objectives ……

- Testing process more efficient – saving time, money and has improved the quality of CAI questionnaires.
- Using the CTT ensures all projects are following a standardized approach to testing.
- CTT stores and allows access to information about the entire testing process, providing a source of data about the questionnaire development stage and ability to run reports easily at any time.
- Repository for future projects – for example, a future wave or similar project.
Summary

• Smoother and more harmonious testing process - all those involved working in the same environment providing accurate and appropriate information which can be shared easily.

• Found the CTT to be a useful tool that reduces the burden of testing on all those involved.

• Although the quality of a questionnaire can only be as good as the time spent testing, the tool allows the tester to concentrate their efforts on releasing an instrument with minimal errors.
Questions