Customizing the BlaiseIS XSLT Stylesheets and ASP Scripts

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Blaise IS: How does it work?

- Respondent asks for a page
- Server does something
- Respondent receives the page
Blaise IS: How does it work? (2)

1. Send input to Blaise
2. Blaise generates questions
3. Blaise sends question properties to IIS
4. IIS transforms properties to HTML page
5. HTML page is sent to respondent
6. Output
Modifying XSLT style sheets

- Modify look and feel of webpages
- Add extra functionality to meet demands of our customers
Clickable texts by modifying XSLT style sheets

- Added id to input elements
- Modified template RichTextElement to add label with “for” attribute

```html
<input name="qu1fpala" id="qu1fpala1" value="1" type="radio">
<label for="qu1fpala1">Option A</label>
<input name="qu1fpala" id="qu1fpala2" value="2" type="radio">
<label for="qu1fpala2">Option B</label>
```
Slider using jQuery-UI (1)

Blaise source file (.bla)
<div id="slider2"></div>
<script type="text/javascript">
  $(function() {
    createSlider(2);
  });
</script>

XSLT style sheet
• Includes links to jQuery libraries
• Includes JavaScript function
createSlider()
Slider using jQuery-UI (2)

- Creates slider on document load
- Fills input field when slider is moved

```javascript
function createSlider(id) {
  var element = document.getElementById("qu" + id + "_id");
  element.style.display = 'none';
  var val = 550;
  if (element.value != '') {
    val = parseInt(element.value);
  } else {
    element.value = val;
  }
  var sliderOpts = {
    min: 100,
    max: 1000,
    value: val,
    slide: function(e, ui) {
      element.value = ui.value;
    }
  };
  $('#slider' + id).slider(sliderOpts);
}
```
De orde in ons land handhaven.

Helemaal niet belangrijk  1  2  3  4  5  6  7  8  9  10  Heel erg belangrijk
Table Styling

- Header row gets css class “HeaderRow”
- Other rows alternating css classes “OddRow” and “EvenRow”
- Styling (for instance coloring) can be set with standard css
Trigram search/encode question (1)

• Automatic look-up and encode question
• Question uses a database that contains descriptions
• Very similar to a Google search suggestion box
• Code is written in Classic ASP and uses an Access database
Trigram search/encode question (2)
Previously presented modifications

• Simple Style Sheet (Arnaud Wijnant & Edwin de Vet) – IBUC 2012
• Mobile style sheet based on the Simple Style Sheet and jQuery mobile (Alerk Amin) – IBUC 2012
• C3B – incorporating external webpages into the Blaise questionnaire (Arnaud Wijnant) – IBUC 2010
Modifying asp scripts - logging

• Modification of BiPagHan.asp
• Logging to plain text file
• Name of the questionnaire, timestamp (date and time), key value of the respondent, question name and given answer
• Analysis of time intervals between questions
• Are respondents going back in the questionnaire?
Security enhancement

Respondents portal
KeyValue=1237
HashValue=sha1(SALT."1237")

BlaiseIS server
Recalculate hash
HashValue=sha1(SALT.KeyValue)

<form action="blaiseISserver/biInterviewStarter.asp">
<input type="hidden" name="KeyValue" value="1237" />
<input type="hidden" name="HashValue" value="dd054b0a2f3b8b66f6611910" />
<input type="Submit" value="Start Questionnaire" />
</form>

• First question
• Missing KeyValue
• Incorrect hashvalue
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