CMPS 119 Software for Society

Questionnaire Editor

April 25, 2014
• Thanks for those pointing out software bugs:
  • removed “Back” button from first page
  • removed both buttons from email summary
  • not yet reproduced crash on page “BRCA_S/P3/"
  • Not yet added images to the page!
  • Currently it seems very plain, and the UI is unintuitive
  • The survey seems relatively standard and uninteresting/
    useful in comparison to other tools. I suppose it
    accomplishes its goal somewhat well but could be
    improved with a more interesting interface and a less
    confusing menu system
  • accept birthdate in multiple formats
  • place a limit on the age of the person! 150 years.
  • need encryption: “https”
Software for Society, Friday April 25

• Clarification:
  • no path from the Questionnaire to the Questionnaire Editor
  • The intention is that the Respondent will not be a Questionnaire Editor.
  • Make a “favorite” the Questionnaire Editor
  • While editing, select “view page”.
  • But, we need a better “completion” page.

• Questionnaire submission dump:
  • Contains all the submissions in the project, so you might see information from several questionnaires and people.
What’s needed (software)

• Support for other environments/platforms
  • MongoDB, etc. - interest in connecting? Discuss?
• UI design
• UI logic - currently a “star” arrangement
• source code restructuring
  • reduce common code
  • identify code not executed
• Open source code documentation:
  • Git/Github, and wiki
  • source code documentation
    • implementation independent
    • structure diagrams
  • function documentation
• “Clean” support for language translations
• Chris Garrett: Got some major ideas for how to improve it
Page layout

Window title bar

Page header

Page sub-header

Explanation

Prologue

Question(s)

Epilogue

Contains one or more questions, with associated response field.
Suggestions: Create a Questionnaire

• The **mechanics** of creating a questionnaire (as opposed to content)
  • add a sample questionnaire: “SampleQ”
    • the sample is immediately runnable
  • Edit the name to something related to the task
  • Add pages
  • Add questions to the pages
  • Run the questionnaire to check results
  • Repeat

• Almost to the point where we can add questions to the questionnaires (stay tuned)
Questionnaire Data Model

• Object model “has a” relations:
  • User
  • Project
  • Questionnaire
  • Page
  • Question
Finding the Questionnaire Editor

• Main menu

  • [http://50.79.41.35/scrntest/multiquest/registration/userLanding/](http://50.79.41.35/scrntest/multiquest/registration/userLanding/)
Welcome to the Questionnaire Editor

• Two parts to Qx (very separate):
  • Questionnaire Editor
    • requires login
  • Questionnaire Executor
    • does not require login
    • questions accessible via a (relatively) simple url, e.g.:
      • Essential part is: PAMF/BRCA_F = Project/Questionnaire
  • Questionnaire takers are different from the Questionnaire editors, so there is no automatic way to go from the taking to the editing portion of the software.
Welcome to the Questionnaire Editor

- Questionnaire Editor (Main Menu)
  - Select a different Project (may not be needed)
  - Create a new Sample Questionnaire (start with a default)
    - Make sure and run this until you understand it
  - Edit information about the Questionnaire (change name)
  - Edit the pages in the Questionnaire (add new pages)
  - Edit the questions in the Questionnaire (add new questions to a specific page)
    - Reshuffle the page sequence
  - Iterate
- Set up a “branch” in the questionnaire
  - Choose next page based upon question response
    - “Reshuffle”
How to create a Questionnaire

- Each questionnaire
  - has a “splash” page as the first page
  - has a “demographics” page as the second page (you can’t edit for now)
  - has a “completion” page as the last page,
- Draw a diagram showing the page transitions.

Branch

- P2 (ovarian family history)
- P3 (breast ca pt history)
- P4 (brca & bc)
- P3a (br ca pt details)
- P3b (br ca fm details)
- P3c (condil)

Q response:
- YYYY
- YNY
- NYY
- NNY

BRCA mutation risk:
- extremely low (always)
- higher than average
- indeterminate

Summary

- Other risks
- No risks, and not enough information
- No risks

• Each questionnaire
  • has a “splash” page as the first page
  • has a “demographics” page as the second page (you can’t edit for now)
  • has a “completion” page as the last page,
• Draw a diagram showing the page transitions.
Welcome to the Questionnaire Editor

Your Home Page for editing and executing a Questionnaire

Your username is: djsuser. Your login is associated with the Project: Lavender

The Questionnaire you have selected is: Lavender/SampleQ

Please send comments and excoriations to: webscreen@ScreenGenes.org

Select your next action from the following list:

Select and run a Questionnaire

- Run questionnaires associated with any Project
- Select a default Questionnaire for the Project: Lavender

Project management

- Select a different Project
- Edit your Project information: Lavender
- Create a new Sample Questionnaire
- Logout of the Questionnaire Editor

Edit the Page Transitions

- Choose next page based upon question response
- Reshuffle the page sequence

Edit the Questionnaire information

- Edit information about the Questionnaire: SampleQ
- Select then delete a Questionnaire: SampleQ

Edit Pages in the Questionnaire

- Edit the pages in the Questionnaire: SampleQ

Edit Questions in the Questionnaire

- Edit the questions in the Questionnaire: SampleQ

Get Questionnaire results

- Select and view responses to the Questionnaires
- Dump responses data to a spreadsheet file for Project Lavender
- Delete responses to the Questionnaires
- Dump a tag decoder file for the spreadsheet file
Questionnaire Editor: Create a new Sample Questionnaire

This page provides for the creation of a sample questionnaires within the current Project which is "Lavender".

The name of the sample questionnaire will be "SampleQ", or a slight variation if there is already a questionnaire with that name.

BRCA_S

SampleQ

Create a Sample Questionnaire

Return to the Home Page
Edit Information about the Questionnaire

The current Project/Questionnaire is "Lavender/SampleQ".

The name of the Questionnaire is: "Banner at the top of every page" with a first page of "newStart", written in English. The Questionnaire window bar title is: "Sample Questionnaire"

If you wish to rename the questionnaire, enter a new name in the "short tag" field below. The "short tag" field uniquely identifies the questionnaire, so it must not duplicate another questionnaire name. The list of questionnaires for the Project "Lavender" is:

BRCA_S, SampleQ

**Short tag:** SampleQ

Text on the title bar: **Sample Questionnaire**

Banner at the top of every page: **Banner at the top of every**

Banner subtitle: **Banner subtitle**

Description: **First page of the question** Short description. Does not appear to the respondent

Footer at the bottom of every page: **Footer at the bottom of ev**

Questionnaire version (appears in the footer): **Questionnaire version**

Version date: **2014-02-04 00:00:00**

Language: **English**

[accept Questionnaire Edits] [Return to the Home Page]
Edit all pages in a Questionnaire.

The current Project/Questionnaire/Page is "PAMF/BRCA_S_Hindi/P3c".

This page is not shared with any other questionnaire. Edits will not affect any other questionnaire.

If you wish to change the name of this page, then enter a unique name: P3c.

Create a new page appearing before this one
Create a new page appearing after this one

Or, delete the current page: Delete this page: P3c

Page description (does not appear to the respondent): "Patient history of other cancers"

Banner: Appears at the top of every page
Sub Banner: Appears just below the banner on every page
Page Description: Does not appear to the respondent

(Explanation:) Appears underneath the banner

(Prologue:) Appears before the question(s)
(pHxBrCAOther:

(Epilogue:) Appears after the question(s)

Please indicate any of the following conditions you have had:
Page transition matrix

From

To
**Change page order**

The current Project/Questionnaire is "PAMF/BRCA_S_Hindi".

The start page for this Questionnaire is "splash". Click the page tag below to change the start page.

The page transition table determines which page is the "Next" page in the Questionnaire. The transition table is displayed in two formats on this page: an editable page sequence, and a non-editable "from" to "to" for each page.

Make sure that each page has a place in the new transition table, with no added pages, and none lost. For ease of editing, consider copying the table into your favorite editor, then pasting the results.

Here is the page transition table as a sequence of pages which is easier to edit. The text area can be enlarged by stretching the lower right corner.

<table>
<thead>
<tr>
<th>splash, respondentIdent, P1, P2, P3, P4, P5, SummaryPage, avgRisk, completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3a, P3b, P3c, P5</td>
</tr>
<tr>
<td>P4a, P4b, P5</td>
</tr>
<tr>
<td>riskAssess2, completion</td>
</tr>
<tr>
<td>indetRisk, completion</td>
</tr>
</tbody>
</table>

**The default Page Transition Table is:**

<table>
<thead>
<tr>
<th>From page:</th>
<th>To page:</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>P2</td>
</tr>
<tr>
<td>P2</td>
<td>P3</td>
</tr>
<tr>
<td>P3</td>
<td>P4</td>
</tr>
<tr>
<td>P3a</td>
<td>P3b</td>
</tr>
<tr>
<td>P3b</td>
<td>P3c</td>
</tr>
<tr>
<td>P3c</td>
<td>P5</td>
</tr>
<tr>
<td>P4</td>
<td>P5</td>
</tr>
<tr>
<td>P4a</td>
<td>P4b</td>
</tr>
<tr>
<td>P5</td>
<td>SummaryPage</td>
</tr>
<tr>
<td>SummaryPage</td>
<td>avgRisk</td>
</tr>
<tr>
<td>avgRisk</td>
<td>completion</td>
</tr>
<tr>
<td>indetRisk</td>
<td>completion</td>
</tr>
</tbody>
</table>

Equal
Create transition logic to move from one page to another based upon question response

Define the next page of the Questionnaire in terms of the response to questions on the current page. Start with one page, then the "next" button transitions to another page.

The current Project/Questionnaire is "Lavender/SampleQ"

Step 1: Click a Page button to change the CURRENT page "TP2":

Only pages with questions are listed.

The current Page is "TP2" with default transition to "Path1".

The following lists the conditions and transitions set for this page:

<table>
<thead>
<tr>
<th>Delete</th>
<th>If question response on this page &quot;TP2&quot; is</th>
<th>then transition to the next page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>((u'criticalPath', u'Yes'))</td>
<td>Path2</td>
</tr>
</tbody>
</table>

Step 2: Select the next page after responding to the questions on this page "TP2".

Proceed to Step 3.

Step 3: Respond to the question on the page "TP2" which transition to page "Path2":

Do you want to diverge to Path 2?:
- ○ Yes
- ○ No

(Question tag: criticalPath)

Step 4: Click the button to save the question response:

Submit responses to questions

Return to the the Home Page

The following lists all the question responses which affect page transition in this Questionnaire.

If for the page: TP2 the test condition is True: ((u'criticalPath', u'Yes')) then the next page is: Path2
User Interface “Scope”

• Upon logging in, Who can see what?
  • Only Project members can see the Questionnaire being edited.
    • Be careful within a project! You can trample on each others edits!
  • Anyone can see and execute the Questionnaire.
    • No login required
    • Don’t embarrass us (luckily assignments are constrained!)
    • Beware of “real” data