Indexer Client Pass-off Sheet

Each feature listed below is assigned a certain number of points. By default, each feature is "all or nothing" (i.e., full points or zero points).

Code evaluations for the project will be <u>capped</u> by the percentage of functionality completed. For example, if a student completes 75% of the functionality, the highest score they can achieve on the code evaluation is 75%. This prevents a student who completed very little of the project from getting the same code evaluation score as a student who completed the entire project.

1. Server Location (3 points)

a. _____ (3) The program uses the server on the machine and port specified on the command-line. The following commands work properly (which are used during pass-off):

```
ant import –Dfile=<PATH TO XML FILE>
ant server-gui
ant server –Dport=<PORT NUMBER>
ant client –Dhost=<HOST NAME> –Dport=<PORT NUMBER>
```

2. Login/Logout (7 points)

a. _____ (2) When no user is logged in, the login dialog is displayed. When a user is logged in, the main indexing window is displayed. The program properly toggles between the two as users log in and out.

b. _____ (2) The login dialog structure and layout mimics the demo, is not resizable, and is modal.

c. _____ (2) The program correctly authenticates users by accepting valid credentials and rejecting invalid credentials. When a valid user logs in, the appropriate welcome message is shown. (For this category, we ignore the accuracy of the indexed records count; that comes under Submitting Batches). When invalid credentials are used, an error message box is displayed.

d. _____ (1) Exit terminates the application (in both the login dialog and main indexing window).

3. Persistent User State (7 points)

After a successful login, the program returns to the same state it was in the last time the user was logged in (assuming they run the program on the same computer).

a. _____ (4) The user is returned to the <u>same batch</u> they were working on before, and all <u>field values</u> they have previously indexed are restored in the Table Entry and Form Entry panels. If the user has no batch currently assigned to them, the main indexing window is in an "empty" state (like the demo). The following attributes are restored: 1) <u>Zoom level</u>, 2) <u>Scroll position</u>, 3) <u>Highlights visible setting</u>, 4) <u>Image inverted setting</u>.

b. ____ (2) The following attributes are restored: 1) Position of indexing window on the desktop, 2) Size of the indexing window, 3) Positions of the horizontal and vertical split panel dividers.

c. ____ (1) The user can save the current state of their session by clicking the "Save" button in the main indexing window.

4. Download Batch (7 points)

a. ____ (1) Downloading a batch is not allowed when the user already has a batch assigned to them (by either disabling the menu option or displaying an error message box).

b. ____ (2) Download batch dialog structure and layout mimics the demo, is not resizable, and is modal.

c. ____ (4) A batch for the selected project is downloaded when the "Download" button is clicked. The dialog closes, and the main indexing window correctly displays a newly downloaded batch.

(The "View Sample" button is addressed in the next section.)

5. View Sample Image (6 points)

a. ____ (4) When the "View Sample" button is clicked, the sample image dialog is displayed and contains a sample image for the selected project.

b. ____ (2) Sample image dialog structure and layout mimics the demo, is not resizable, and is modal.

6. Main Indexing Window (8 points)

a. ____ (8) The main indexing window structure and layout mimics the demo. This includes the "File" menu, button bar, table entry tab, form entry tab, field help tab, and image navigator. Splitters and tabs are required. The main indexing window is resizable, and the layout adjusts reasonably when resized.

7. Image Panel (14 points)

a. ____ (3) The image can be translated by dragging the mouse.

b. ____ (3) The user can select a cell in the image by clicking the mouse in the cell, even when the image is scaled and translated. The cell is highlighted properly. (Full credit on this requires that scaling and translation be working so it can be tested.)

c. ____ (3) The image can be zoomed using either the "Zoom In" / "Zoom Out" buttons or the mouse wheel.

d. ____ (2) Zooming is performed relative to the center of the panel. (The point at the center of the panel remains constant as the user zooms in and out.)

e. ____ (2) The image can be inverted using the "Invert Image" button.

f. ____ (1) The selected cell highlight in the image can be turned on and off using the "Toggle Highlights" button.

8. Table Data Entry (10 points)

a. ____ (5) The table reflects the structure of the project, including having the correct number of columns and rows, the columns are in the correct order and have the correct headings, and the "Record Number" column is correct. The "Record Number" column in the table is read-only. All other columns are editable.

b. ____ (2) The table correctly highlights the currently-selected cell. Only a single cell can be selected (not entire rows or columns).

c. ____ (2) The selected cell can be advanced with the TAB key.

d. ____ (1) The table can be scrolled with a vertical scrollbar when its contents don't fit in the available display area.

9. Form Data Entry (10 points)

a. ____ (5) The record number list and form fields reflect the structure of the project, including record numbers, field names, and field order.

b. ____ (2) The record number list can be used to select a particular record. The list allows only a single selection (not multiple selections).

c. ____ (2) The selected cell can be advanced with the TAB key. (The selected cell is the one with the keyboard focus.)

d. ____ (1) The record number list can be scrolled with a vertical scrollbar when its contents don't fit in the available display area. The form fields can be scrolled with a vertical scrollbar when they don't fit in the available display area.

10. Field Help (4 points)

a. ____ (3) Help for the currently-selected field is displayed in the field help tab.

b. ____ (1) The field help panel can be scrolled with a vertical scrollbar when its contents don't fit in the available display area.

11. Batch State Synchronization (8 points)

a. ____ (4) The currently-selected cell is synchronized between the: 1) Image Panel, 2) Table Entry, and 3) Form Entry. When a cell is selected in one, the same cell becomes selected in all. (The Image Panel and Table Entry highlight the currently-selected cell. The Form Entry places the keyboard focus in the currently-selected cell, if it is part of the visible record).

b. ____ (4) Field values are synchronized between the Table Entry and Form Entry. When a user types in a value in one, the value appears in the other.

12. Submitting Batches (6 points)

a. ____ (5) The current batch can be submitted to the server by clicking the "Submit" button. The submitted values are properly stored in the server's database, and the user's indexed record count is correctly updated (as shown at login). The main indexing window returns to an empty state (like the demo).

b. ____ (1) Submitting a batch is only allowed if the user currently has a batch assigned to them (either by disabling the button, or displaying an error message box).

13. Quality Checker (10 points)

a. ____ (2) In the Table Entry and Form Entry tabs, values entered by the user that are not in the "known values" set for the field are highlighted.

b. ____ (2) Users can right-click on a highlighted value, and select the "See Suggestions" option from a popup menu. (Right-clicking on an un-highlighted value should not display the popup menu.) Selecting "See Suggestions" from the popup menu causes the suggestions dialog to appear.

c. ____ (2) Suggestions dialog structure and layout mimics the demo, is not resizable, and is modal. Only single selections are allowed in the suggestion list, and the "Use Suggestion" command is disabled when no value is selected in the list (either by disabling the button, or displaying an error message box). The suggestion list can be scrolled with a vertical scrollbar when its contents don't fit in the available display area.

d. ____ (2) The suggestion list contains all values from the field's "known values" set that are edit distance one or edit distance two from the value entered by the user. The suggestion list is sorted in ascending alphabetical order.

e. ____ (2) When the user clicks "Use Suggestion", the suggestions dialog closes, the highlighted cell value is replaced by the selected suggestion, and the highlight disappears.

14. Image Navigator (Extra Credit, 10 points)

a. ____ (5) The image navigator correctly scales and displays the batch image, and draws a "view port" rectangle over the area that is visible in the image panel. When the image panel is resized, zoomed, or translated, the image navigator updates properly.

b. ____ (5) The "view port" rectangle can be translated by dragging it with the mouse. When the "view port" rectangle is translated, the contents of the image panel are translated appropriately.