SurveyDSL

SurveyDSL is a domain specific language (DSL) designed for specifying survey structures using user-friendly textual syntax; after specifying a structure, a web-based survey is generated (.js file + .html file).

For specifying the structure of a survey, you can use elements stated in this document. Some of the stated keywords are also used for manipulating the generated user interface (web page).

Top (Survey) level keywords are:

- **title**: the title of a survey;

- **completedMessage**: the message that is to be displayed after the completion of a survey;

- **buttonNextText**, **buttonPrevText** and **buttonCompletedText** keywords are used for changing the text displayed on the buttons of a survey;

- **questionTitleLocation**: specifies the location of the question title; the possible values are *top* and *bottom;* the default value is *top;*

- **progressBarLocation**: specifies the location of the progress bar; the possible values are *top, bottom* and *off;* the default value is *top;*

- **hidePageTitles**: states that the page titles should not be displayed;

- **hidePageNumbers**: indicates that the page numeration should not be displayed;

- **hideQuestionNumbers**: indicates that the question numbers should not be displayed;

Page level keywords:

- **Page**: indicates the beginning of a new page,

- **Title**: the title displayed on the page, visible only if the *hidePageTitles* keyword isn't stated at the survey level;

- **VisibleIf**: specifies when the page should be visible to the user; it is used by indicating the name of a question (*questionName* attribute) on which the visibility of the current page depends, and the desired value of that question for which the current page will be visible;

Question level keywords are:

- **Question**: the keyword that is used to indicate the beginning of the question structure;

- **Required**: indicates that the question is mandatory;

- **Type**: specifies the type of a question; one of the following values can be used: *text, radiogroup, checkbox, dropdown, comment, matrix, multipleText* or *rating;*

- **Title***:* specifies the title of a question;

- **QuestionName**: the name of a question; this keyword is required when other question's visibility depends on the current question (see the 'visibleIf' keyword);

- **VisibleIf**: specifies when the question should be visible to the user; it is used by indicating the name of a question on which the visibility of the current question depends, and the desired value of that question for which the current question will be displayed;

- **Placeholder**: used in the case of a textual questions, to show an example of the input to the user

- **Choices**: a list of strings separated by comma; used for the questions of type *radiogroup, checkbox* and *dropdown;*

- ColCount: states in how many columns should choices be divided; used for the questions of type *radiogroup*, *checkbox* and *multipleText*;

- **CommentRows**: used to state how many rows of text are expected for an answer, in the case of when a question is of type *comment*;

- **TextInputType**: an attribute that is used in the case of a question of type *text;* used to indicate a type of the answer that is expected – it can have one of the following values: *text, time, range, color, date, datetime, month, week, number, email, password, tel* or *url.*

- **RatingMinDescription**: used for the questions of type *rating* to indicate the text that is to be shown by the choice of the minimum value;

- **RatingMaxDescription**: used for the questions of type *rating* to indicate the text that is to be shown by the choice of the maximum value;

- **MatrixColumns:** used when the question is of type *matrix*; represents a list of (title, value) pairs, where each pair represents a single column in the matrix;

- **MatrixRows**: used when the question is of type *matrix*; represents a list of (title, value) pairs, where each pair represents a single row in the matrix;

- **MultiTextItems**: represents a list of subtitles for the question of type *multyText;*