**Use Cases**

**for**

**Builder Plugin**

**Version 1.0**

**Prepared by Builder Team**

**GWU**

**03/31/2014**

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 1 |  |  |
| Use Case Name: | Create a role owner/builder/analyzer. |  |  |
| Created By: | Builder Team | Last Updated By: | Builder Team |
| Date Created: | 03/31/2014 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actors: | WordPress User |
| Description: | Giving user a role whether it’s a builder or analyzer |
| Trigger: | Purchaser wants to have a role. |
| Preconditions: | 1. Valid word press user |
| Post conditions: | 1. Roles are assigned |
| Normal Flow: | 1. 1.1 User assigns the roles 1.2 Builder should now be able to create questions for questionnaires 2. 1.3 Analyzer should now be able to provide analytics |
| Alternative Flows: |  |
| Exceptions: | Role is already created or assigned |
| Includes: | Once role is selected, user is directed to the second use case. |
| Priority: | Highest |
| Frequency of Use: | Once for each owner/purchaser |
| Business Rules: | User must provide a role, builder or analyzer only |
| Special Requirements: | Plugin must be installed. |
| Assumptions: |  |
| Notes and Issues: |  |

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 2 |  |  |
| Use Case Name: | Create a questionnaire by category |  |  |
| Created By: | Builder Team | Last Updated By: |  |
| Date Created: | 03/31/2014 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actors: | Wordpress user who is an owner/purchaser |
| Description: | Assigning a category to each questionnaire |
| Trigger: | User clicks on the button ‘Create Questionnaire’ |
| Preconditions: | 1. Need to be a wordpress user  N Need to be an owner |
| Postconditions: | Q Questionnaire is created |
| Normal Flow: | 1. 2.1 Select a category 2. 2.2 Give it a title    1. Questionnaire is saved in the database    2. Assign builders and analyzers to the questionnaire |
| Alternative Flows: | If the builder selects “OTHER” as a category  then we prompt a text box to write his own category |
| Exceptions: |  |
| Includes: | Use case id 3. |
| Priority: | High |
| Frequency of Use: | High |
| Business Rules: | user must select a category and give a title |
| Special Requirements: | User should be recognized by wordpress |
| Assumptions: | plugin installed and working  user selects himself as a builder |
| Notes and Issues: | issue will be seen by the analyzer team if he does not choose the prior given category |

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 3 |  |  |
| Use Case Name: | Add Questions to Questionnaire |  |  |
| Created By: | Builder Team | Last Updated By: |  |
| Date Created: | 03/31/2014 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actors: | Wordpress User with ‘Builder’ role |
| Description: | User can add questions to a questionnaire |
| Trigger: | User selects the option to add a question |
| Preconditions: | 1. Wordpress User has ‘Builder’ role and a Questionnaire is created prior to adding questions |
| Postconditions: | Question is added to a questionnaire |
| Normal Flow: | 1. 3.1 User clicks on the button ‘Add a Question’  3.2 User enters question number  3.3 User types in the question title  3.4 User selects if this question is mandatory  3.5 User selects one of answer types  3.6 Question is saved in the database |
| Alternative Flows: |  |
| Exceptions: |  |
| Includes: | Once the user has added a question, system should direct user to use case #4 and then use case #5 |
| Priority: | High |
| Frequency of Use: | For each questionnaire |
| Business Rules: | - Atleast one question should be added for each questionnaire  - User must select the answer type for this question |
| Special Requirements: |  |
| Assumptions: | This use case is executed only after use cases 1 & 2 |
| Notes and Issues: |  |

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 4 |  |  |
| Use Case Name: | add answer choices |  |  |
| Created By: | Builder team | Last Updated By: | Builder team |
| Date Created: | 03/31/2014 | Date Last Updated: | 03/31/2014 |

|  |  |
| --- | --- |
| Actors: | wordpress user with ‘Builder’ role |
| Description: | add the different types of answer choices to the questions which could be:  1]multiple choice single answer (radio button)  2] multiple choice multiple answers (check box)  3] text (text box)  4] yes/no (radio button)  5] scale (radio button) |
| Trigger: | user selects option to add answers to question |
| Preconditions: | 1. question should be created |
| Postconditions: | 1. answer choices are present for a question |
| Normal Flow: | 1. a user will create the possible answer choice/choices for for the particular question depending on the type of question |
| Alternative Flows: |  |
| Exceptions: |  |
| Includes: | this use case will call the sixth use case which is to the ability to create flag for answer choices |
| Priority: | highest priority |
| Frequency of Use: | for each question |
| Business Rules: | business rules are for each type of answer is:  1]multiple choice single answer - more than one choice should be created  2] multiple choice multiple answers - more than one choice should be created  3] text - user is prompted a text box  4] yes/no - both choices should be prompted  5] scale - a scale should exist either in a descending or ascending order |
| Special Requirements: |  |
| Assumptions: | its assumed that there could be only one answer type existing at a time for a question |
| Notes and Issues: | this use case can be further developed to consider types such as temperature sample, saliva sample, pacemaker result, retina capture, voice sample, video, etc. |

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 5 |  |  |
| Use Case Name: | Set series of actions to questions. |  |  |
| Created By: | Builder Team | Last Updated By: |  |
| Date Created: | 03/31/2014 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actors: | Wordpress user with Builder role. |
| Description: | Builder selects which action has to be performed |
| Trigger: | After a question is written |
| Preconditions: | 1. Questions must be added already |
| Postconditions: | 1. Series of actions are added for a question |
| Normal Flow: | 1. 1.Builder adds a series of actions to the question  2. Defines the sequence of execution of each action |
| Alternative Flows: | None of the choices is selected, user moves to add answer choices to questions. |
| Exceptions: | Link has to be valid in order to be displayed. |
| Includes: | User moves to next use case once he decided to set actions or not. |
| Priority: | Medium |
| Frequency of Use: | Medium(Depends on the builder) |
| Business Rules: | Sequence of actions must be assigned |
| Special Requirements: | Valid URL |
| Assumptions: | User is a builder. Particular file type is to be selected. |
| Notes and Issues: |  |

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 6 |  |  |
| Use Case Name: | Add ability to create a flags for answer choices |  |  |
| Created By: | Builder team | Last Updated By: | Builder team |
| Date Created: | 03/31/2014 | Date Last Updated: | 03/31/2014 |

|  |  |
| --- | --- |
| Actors: | Wordpress user with ‘Builder’ role |
| Description: | User can optionally set flags to every option for each question, this flags are used for branching purposes. |
| Trigger: | User clicks on button ‘Add flag’ to add a flag. |
| Preconditions: | 1. An answer choice for a question must be added |
| Postconditions: | 1. Flags are added to each answer choice |
| Normal Flow: | 1. 5.1 User should be able to set flag name for each option. 5.2 User can add flag value 5.3 User can add next question number for this flag (branching) |
| Alternative Flows: | Proceed without adding flags. |
| Exceptions: |  |
| Includes: | This use case is dependent on Use case no 2, 3 and 4. |
| Priority: | Low |
| Frequency of Use: | For each question option (Not for essay type answer) |
| Business Rules: | If flag is set for particular option then target question should be selected. |
| Special Requirements: | N/A |
| Assumptions: | Assuming 1,2,3,4 and 5 uses cases are executed |
| Notes and Issues: |  |

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 7 |  |  |
| Use Case Name: | give responses to questionnaire |  |  |
| Created By: | Builder team | Last Updated By: | Builder team |
| Date Created: | 03/31/2014 | Date Last Updated: | 03/31/2014 |

|  |  |
| --- | --- |
| Actors: | user (identified or anonymous) |
| Description: | give a response which could be for the following different types of answer choices:  1]multiple choice single answer (radio button)  2] multiple choice multiple answers (check box)  3] text (text box)  4] yes/no (radio button)  5] scale (radio button) |
| Trigger: | user selects an answer choice/choices |
| Preconditions: | 1. answer choice/choices should exist |
| Postconditions: | 1. a response is recorded in the system against a question |
| Normal Flow: | 1. a user will select the possible response from the answer choice/choices for for the particular question depending on the type of question |
| Alternative Flows: | if it is not a mandatory question then user may not select any option of answer |
| Exceptions: |  |
| Includes: | this use case will call the eighth use case which is to track each execution |
| Priority: | highest priority |
| Frequency of Use: | for each question |
| Business Rules: | business rules for each type of answer is:  1]multiple choice single answer - more than one choice should be recorded in the system against a question  2] multiple choice multiple answers - more than one choice should be created in the system for a question  3] text - user is prompted a text box for a question  4] yes/no - both choices should be prompted for a question  5] scale - a scale should exist either in a descending or ascending order for a question |
| Special Requirements: | N/A |
| Assumptions: | its assumed that there could be response recorded of only one answer type for a question |
| Notes and Issues: | this use case can be further developed to record responses for answer types such as temperature sample, saliva sample, pacemaker result, retina capture, voice sample, video, etc. |

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 8 |  |  |
| Use Case Name: | Record each execution |  |  |
| Created By: | Builder Team | Last Updated By: |  |
| Date Created: | 03/31/2014 | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actors: | Builder plugin module |
| Description: | The builder plugin module records each execution of a questionnaire when a particular user is giving his/her responses to the set of questions |
| Trigger: | User starts a questionnaire |
| Preconditions: | 1. Questionnaire is created by a builder for a user (identified or anonymous to take it |
| Postconditions: | 1. Responses for all the questions in a questionnaire are tracked in a single execution |
| Normal Flow: | 1. 8.1 User starts a questionnaire  8.2 A unique execution identifier is created and stored for the duration of the session  8.3 All responses from a user are tagged against the previously generated unique execution identifier |
| Alternative Flows: |  |
| Exceptions: | If user loses connection, the analyzer plugin ignores responses for questionnaires with incomplete responses for mandatory questions |
| Includes: | This use case depends on use case number 7 i.e. the user has started giving responses |
| Priority: | High |
| Frequency of Use: | For each questionnaire |
| Business Rules: | For each execution a unique execution identifier is generated and all responses are tagged against that identifier |
| Special Requirements: |  |
| Assumptions: | System can generate a unique execution identifier |
| Notes and Issues: | For incomplete executions, in the future the system could scan for incomplete responses to mandatory questions and discard such executions |

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 9 |  |  |
| Use Case Name: | Decide branching based on flag set |  |  |
| Created By: | Builder team | Last Updated By: | Builder team |
| Date Created: | 03/31/2014 | Date Last Updated: | 03/31/204 |

|  |  |
| --- | --- |
| Actors: | Builder plugin module |
| Description: | After each response flags are checked and depending on that branching is done. |
| Trigger: | User press next question button |
| Preconditions: | 1. Flags are set for options |
| Postconditions: | 1. Question should be redirected to mentioned question number. |
| Normal Flow: | 1. 9.1 User give response 9.2 Flag is set for that question 9.3 Previous flag are checked 9.4 User press next button 9.5 Depending on flag user is redirected to particular question |
| Alternative Flows: | User is redirected to next question if flags are not set |
| Exceptions: |  |
| Includes: | Use cases number 2,3,4 and 6 are used. |
| Priority: | High |
| Frequency of Use: | For each question options |
| Business Rules: | If question type is of multiple choice checkbox and builder gives different target question for each checkbox and user selects all check box then flow should be redirected to question type with minimum value. |
| Special Requirements: |  |
| Assumptions: | For branching it is assumed that flags are set for each option. |
| Notes and Issues: |  |