Use Cases

for

Analyzer

**Version 3.0**

**Prepared by Analyzer Team**

**GWU**

**5/6/2014**

Use Case

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| --- | --- | --- | --- |
| Use Case ID: | 1 |  |  |
| Use Case Name: | Create Tables in Star Schema Form |  |  |
| Created By: | Analyzer Team | Last Updated By: | Harsh & Yash |
| Date Created: | 03/30/14 | Date Last Updated: | 05/06/2014 |

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| --- | --- |
| Actors: | Wordpress User with analyzer role |
| Description: | Create table in star schema so that we can load data from builder database to analyzer database |
| Trigger: | Staff/Purchaser should assign analyzer role to the user |
| Preconditions: | 1. User validation & user installed analyzer plug-in |
| Postconditions: | 1. Tables are created in star schema form |
| Normal Flow: | 1. 1.1 Owner defines the role for the Editor 2. 1.2 Editor defines the role for the Staff 3. 1.3 Staff build and analyzes the surveys 4. 1.3 Create tables in star schema to analyze data |
| Alternative Flows: | 1.1 In the absence of an Editor the Owner will define the role for the Staff  1.2 Owner himself is the Staff |
| Exceptions: | N/A |
| Includes: | Once tables are created, then data is loaded |
| Priority: | Highest |
| Frequency of Use: | Analyzer can create tables only once |
| Business Rules: | The purchaser must provide role, builder or analyzer |
| Special Requirements: | Analyzer Plugin is installed |
| Assumptions: | The plugin is installed and the use case is executed when the user is valid and given a role by purchaser |
| Notes and Issues: | Even if no survey is taken by users, the tables will be created |

Use Case

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| Use Case ID: | 2 |  |  |
| Use Case Name: | Fetch data |  |  |
| Created By: | Analyzer Team | Last Updated By: | Harsh & Yash |
| Date Created: | 03/30/14 | Date Last Updated: | 05/06/14 |

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| Actors: | Word Press user with Analyzer Role |
| Description: | Fetch the data from the builder database to analyze the survey results |
| Trigger: | Cron job to load the data in the tables |
| Preconditions: | 1. Minimum one survey should have been created  2. Minimum one user should have taken the survey |
| Postconditions: | The data is populated in the tables using Cron job |
| Normal Flow: | 2.1 Load data from the builder database |
| Alternative Flows: | N/A |
| Exceptions: | If data is not loaded/present then it should prompt error message |
| Includes: | Once data is loaded in the tables, the results of the survey can be analyzed |
| Priority: | Highest |
| Frequency of Use: | Unlimited Times |
| Business Rules: | Survey data must be available to Analyze |
| Special Requirements: | N/A |
| Assumptions: | Tables are created |
| Notes and Issues: | N/A |

Use Case

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| Use Case ID: | 3 |  |  |
| Use Case Name: | Analyze Results |  |  |
| Created By: | Analyzer Team | Last Updated By: | Harsh & Yash |
| Date Created: | 03/30/14 | Date Last Updated: | 05/06/14 |

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| Actors: | Wordpress user with analyzer role |
| Description: | Analyze results as soon as the survey is taken and the data is available |
| Trigger: | User clicks the “Analyze” button to analyze survey |
| Preconditions: | Data should be available in the database |
| Postconditions: | Analyzed results are available to create reports |
| Normal Flow: | * 1. On selecting the questionnaire from the drop-down list, and click on execute button, the User gets displayed the whole report for that questionnaire. |
| Alternative Flows: | N/A |
| Exceptions: | If analysis of data doesn’t take place, following error message “Data not available for analysis” should be displayed |
| Includes: | If the data is available then the reports are shown. |
| Priority: | High |
| Frequency of Use: | Unlimited |
| Business Rules: | Results should be analyzed to create reports |
| Special Requirements: | N/A |
| Assumptions: | Survey data is available in the database for analysis |
| Notes and Issues: | N/A |

Use Case

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| Use Case ID: | 4 |  |  |
| Use Case Name: | Filter Results |  |  |
| Created By: | Analyzer team | Last Updated By: | Harsh & Yash |
| Date Created: | 03/30/14 | Date Last Updated: | 04/08/2014 |

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| Actors: | WordPress user with Analyzer role |
| Description: | Filter the reports based on the filter conditions. |
| Trigger: | On selecting the conditions from the drop-downs, click on Execute to filter the results already shown. |
| Preconditions: | Analyzed data should be available |
| Postconditions: | Reports should be generated depending on the filter conditions. |
| Normal Flow: | * 1. Analyzer selects the various filter conditions depending on the question, location and responder.   2. Clicking on Execute button will show the filtered results. |
| Alternative Flows: | N/A |
| Exceptions: | If analyzed data is not present, the following error message should be displayed “No data available. Please change the filter conditions” |
| Includes: | It includes Use case no 3. |
| Priority: | High |
| Frequency of Use: | Depends on Use case number 3 |
| Business Rules: | 1. Reports should be generated for the entire data |
| Special Requirements: | N/A |
| Assumptions: | Assuming Usecases 1,2,3 are excecuted |
| Notes and Issues: | N/A |

Use Case

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| Use Case ID: | 5 |  |  |
| Use Case Name: | Report formats |  |  |
| Created By: | Analyzer Team | Last Updated By: | Harsh & Yash |
| Date Created: | 03/30/14 | Date Last Updated: | 05/06/2014 |

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| Actors: | Wordpress user with analyzer role |
| Description: | Display the reports in user requested format (PDF) |
| Trigger: | Click on the hypertext next to each question to view the results in a pdf format |
| Preconditions: | The reports are already created |
| Postconditions: | The reports are displayed in the requested format (for now only pdf) |
| Normal Flow: | 5.1 Each question in the report is provided with a pictorial button for changing the style of representation of the results.(Bar graph, Pie chart, Line graph)  5.2 If user wants reports to be exported then he can click the export button on the top of the report |
| Alternative Flows: | N/A |
| Exceptions: | N/A |
| Includes: | Data Representation in different formats |
| Priority: | Medium |
| Frequency of Use: | Unlimited number of times |
| Business Rules: | 1. Reports should be presented in the following format:  a. Graphical Representation using Bar graphs, Pie charts, Line graphs  b. List View  2. Reports should be presented for the following dimensions:  a. Time  b. Location (also shows on the map)  c. Questions  d. Responder  e. Duration  f. Questionnaire  g. Entire Data |
| Special Requirements: | User should be given options to select the required format and dimension |
| Assumptions: | Reports are generated |
| Notes and Issues: | N/A |

**Revision History**

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Analyzer Team | 04/01/2014 | Added Use cases for each function of the analyzer plug-in | 1.0 |
| Harsh & Yash | 04/08/2014 | Modified the Use-cases as per the GUI | 2.0 |
| Harsh & Yash | 05/08/2014 | Final Use Cases | 3.0 |

**Use Case Diagram**

