Use Cases

for

Analyzer

**Version 1.0**

**Prepared by Analyzer Team**

**GWU**

**3/29/2014**

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: | Analyzer Team |
| Date Created: | 03/30/14 | Date Last Updated: | 04/01/2014 |

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| --- | --- |
| Actors: | Wordpress User with analyzer role |
| Description: | Create table in star schema so that we can load data from builder team to analyze data |
| Trigger: | Purchaser should assign specific role to the analyzer |
| Preconditions: | 1. User validation |
| Postconditions: | 1. Tables are created in star schema form |
| Normal Flow: | 1. 1.1 Purchaser defines the role 2. 1.2 Create tables in star schema to analyze data |
| Alternative Flows: | 1.2 Can Analyze the data by using normal tables (not star Schema form) |
| Exceptions: | N/A |
| Includes: | Once tables are created, then data is loaded |
| Priority: | High |
| 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: | Analyzer Team |
| Date Created: | 03/30/14 | Date Last Updated: |  |

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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: | After the tables are created in star schema, the data is loaded into 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 |
| Normal Flow: | 2.1 Load data from the builder database |
| Alternative Flows: | N/A |
| Exceptions: | If data is not loaded then it should prompt error message |
| Includes: | Once data is loaded in the tables, the result of the survey are 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: | Analyzer Team |
| Date Created: | 03/30/14 | Date Last Updated: | 04/01/14 |

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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 select the “Analyze result” option to analyze survey |
| Preconditions: | Data should be available in the database |
| Postconditions: | Analyzed results are available to create reports |
| Normal Flow: | * 1. User will select “analyze result” option   2. Analysis takes place from the survey results available   3.3 Analyze results will be available to form reports |
| 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: | Once the results are available then user should direct to create reports |
| 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: | Generate Reports |  |  |
| Created By: | Analyzer team | Last Updated By: | Analyzer Team |
| Date Created: | 03/30/14 | Date Last Updated: | 04/01/2014 |

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| Actors: | WordPress user with Analyzer role |
| Description: | Generate reports based on the data from the analyzed results |
| Trigger: | When the survey results are analyzed, generate the reports |
| Preconditions: | Analyzed data should be available |
| Postconditions: | Reports should be generated |
| Normal Flow: | * 1. Analyzer will generate reports based on the analyzed data available |
| Alternative Flows: | N/A |
| Exceptions: | If analyzed data is not present, the following error message should be displayed “Sufficient Data not available” |
| Includes: | It includes Usecase no 3. |
| Priority: | Medium |
| 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: | Display Report |  |  |
| Created By: | Analyzer Team | Last Updated By: | Analyzer Team |
| Date Created: | 03/30/14 | Date Last Updated: | 04/01/2014 |

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| Actors: | Wordpress user with analyzer role |
| Description: | Display the reports in user requested format in the requested dimension (Eg. Based on Time, Location, specific Question etc.) |
| Trigger: | User clicks on “View Report” option provided |
| Preconditions: | The reports are already created |
| Postconditions: | The reports are displayed in the requested format |
| Normal Flow: | 5.1 User clicks on “View Reports”  5.2 All the reports will be displayed on the page  5.3 If user wants reports of a specific dimension, it will be displayed |
| Alternative Flows: | N/A |
| Exceptions: | If reports are not created, the following message should be displayed “Reports are not generated! Try again Later” |
| 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 Pie Charts, Histograms  b. List View  2. Reports should be presented for the following dimensions:  a . Time  b. Location  c. Questions  d. Respondee  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 |

**Use Case Diagram**

