**Scenario 20:** Verify dataset with New Property, New Description, and New Dataset.

**Include Use Case:** Access Database.

**Description:** The Scientist wants to do a new analysis of a dataset with all new information

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system, the scientist is a registered user of the system, the scientist has selected the analyze button from a previous menu.

**Trigger Condition:** The scientist has chosen the following three options

new property

new file format

new dataset

1. Execution starts at Scenario <<Create A New Data Property>>, step1.
2. The Scientist confirms to keep new property. <Alt 1>.
3. Execution continues to Scenario<<Create a File Format>>.
4. The Scientist confirms to keep new file format <Alt 2>
5. System displays file selector menu.
6. Scientist selects file to be parse.
7. Execution continues to Scenario <<Specify and Parse a File Format>>
8. The Scientist confirms to keep new dataset<Alt 3>
9. System enables the analyze button.
10. The Scientist presses the analyze button.
11. The System analyzes the dataset.
12. Execution continues to Scenario <<Scientist saves dataset in a graphical form>> step 8. Alt 4.
13. End of use case.

Alt 1.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to pre-trigger conditions and exits scenario.

Alt 2.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 3.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 4.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 1.

**Scenario 21:** Verify dataset with New Property, New Description, and Saved Dataset.

**Include Use Case:** Access Database.

**Description:** The Scientist wants to do a new analysis of a saved dataset with new properties and new description information

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system, the scientist is a registered user of the system, the scientist has selected the analyze button.

**Trigger Condition:** The scientist has chosen the following three options

new property

new file format

Open dataset

1. Execution starts at Scenario <<Create A New Data Property>>, step1.
2. The Scientist confirms to keep new property. <Alt 1>.
3. Execution continues to Scenario<<Create a File Format>>, step 1.
4. The Scientist confirms to keep new file format <Alt 2>
5. System displays file selector menu.
6. Scientist selects file to be parse.
7. Execution continues to Scenario <<Scientist view Dataset>>, step 1.
8. The Scientist confirms to keep new dataset<Alt 3>
9. System enables the analyze button.
10. The Scientist presses the analyze button.
11. The System analyzes the dataset.
12. Execution continues to Scenario <<Scientist saves dataset in a graphical form>> step 8. Alt 4.
13. End of use case.

Alt 1.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to pre-trigger conditions and exits scenario.

Alt 2.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 3.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 4.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 1.

**Scenario 22:** Verify dataset with New Property, Saved Description, and New Dataset.

**Include Use Case:** Access Database.

**Description:** The Scientist wants to do a new analysis of a dataset using a saved file description

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system, the scientist is a registered user of the system, the scientist has selected the analyze button from a previous menu.

**Trigger Condition:** The scientist has chosen the following three options

new property

Open file format

new dataset

1. Execution starts at Scenario <<Create A New Data Property>>, step1.
2. The Scientist confirms to keep new property. <Alt 1>.
3. Execution continues to Scenario<<Open a file description>>.
4. The Scientist confirms to keep new file format <Alt 2>
5. System displays file selector menu.
6. Scientist selects file to be parse.
7. Execution continues to Scenario <<Specify and Parse a File Format>>
8. The Scientist confirms to keep new dataset<Alt 3>
9. System enables the analyze button.
10. The Scientist presses the analyze button.
11. The System analyzes the dataset.
12. Execution continues to Scenario <<Scientist saves dataset in a graphical form>> step 8. Alt 4.
13. End of use case.

Alt 1.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to pre-trigger conditions and exits scenario.

Alt 2.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 3.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 4.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 1.

**Scenario 23:** Verify dataset with New Property, Saved Description, and Saved Dataset.

**Include Use Case:** Access Database.

**Description:** The Scientist wants to do a new analysis of a dataset using a saved file description and saved dataset.

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system, the scientist is a registered user of the system, the scientist has selected the analyze button from a previous menu.

**Trigger Condition:** The scientist has chosen the following three options

new property

open file format

open dataset

1. Execution starts at Scenario <<Create A New Data Property>>, step1.
2. The Scientist confirms to keep new property. <Alt 1>.
3. Execution continues to Scenario<<Open a file description>>.
4. The Scientist confirms to keep new file format <Alt 2>
5. System displays file selector menu.
6. Scientist selects file to be parse.
7. Execution continues to Scenario << Scientist view Dataset >>
8. The Scientist confirms to keep new dataset<Alt 3>
9. System enables the analyze button.
10. The Scientist presses the analyze button.
11. The System analyzes the dataset.
12. Execution continues to Scenario <<Scientist saves dataset in a graphical form>> step 8. Alt 4.
13. End of use case.

Alt 1.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to pre-trigger conditions and exits scenario.

Alt 2.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 3.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 4.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 1.

**Scenario 24:** Verify dataset with Saved Property, New Description, and New Dataset.

**Include Use Case:** Access Database.

**Description:** The Scientist wants to do a new analysis of a new dataset using saved properties

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system, the scientist is a registered user of the system, the scientist has selected the analyze button from a previous menu.

**Trigger Condition:** The scientist has chosen the following three options

open property

new file format

new dataset

1. Execution starts at Scenario << Select A Data Property >>, step1.
2. The Scientist confirms to keep new property. <Alt 1>.
3. Execution continues to Scenario<<Create a File Format>>.
4. The Scientist confirms to keep new file format <Alt 2>
5. System displays file selector menu.
6. Scientist selects file to be parse.
7. Execution continues to Scenario <<Specify and Parse a File Format>>
8. The Scientist confirms to keep new dataset<Alt 3>
9. System enables the analyze button.
10. The Scientist presses the analyze button.
11. The System analyzes the dataset.
12. Execution continues to Scenario <<Scientist saves dataset in a graphical form>> step 8. Alt 4.
13. End of use case.

Alt 1.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to pre-trigger conditions and exits scenario.

Alt 2.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 3.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 4.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 1.

**Scenario 25:** Verify dataset with Saved Property, New Description, and Saved Dataset.

**Include Use Case:** Access Database.

**Description:** The Scientist wants to do a new analysis of a new dataset using saved properties

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system, the scientist is a registered user of the system, the scientist has selected the analyze button from a previous menu.

**Trigger Condition:** The scientist has chosen the following three options

open property

new file format

open dataset

1. Execution starts at Scenario << Select A Data Property >>, step1.
2. The Scientist confirms to keep new property. <Alt 1>.
3. Execution continues to Scenario<<Create a File Format>>.
4. The Scientist confirms to keep new file format <Alt 2>
5. System displays file selector menu.
6. Scientist selects file to be parse.
7. Execution continues to Scenario << Scientist view Dataset >>
8. The Scientist confirms to keep new dataset<Alt 3>
9. System enables the analyze button.
10. The Scientist presses the analyze button.
11. The System analyzes the dataset.
12. Execution continues to Scenario <<Scientist saves dataset in a graphical form>> step 8. Alt 4.
13. End of use case.

Alt 1.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to pre-trigger conditions and exits scenario.

Alt 2.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 3.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 4.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 1.

**Scenario 26:** Verify dataset with Saved Property, Saved Description, and New Dataset.

**Include Use Case:** Access Database.

**Description:** The Scientist wants to do a new analysis of a new dataset using saved properties and a saved description of a file

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system, the scientist is a registered user of the system, the scientist has selected the analyze button from a previous menu.

**Trigger Condition:** The scientist has chosen the following three options

open property

open file format

new dataset

1. Execution starts at Scenario << Select A Data Property >>, step1.
2. The Scientist confirms to keep new property. <Alt 1>.
3. Execution continues to Scenario<< Open a File Description >>.
4. The Scientist confirms to keep new file format <Alt 2>
5. System displays file selector menu.
6. Scientist selects file to be parse.
7. Execution continues to Scenario <<Specify and Parse a File Format>>
8. The Scientist confirms to keep new dataset<Alt 3>
9. System enables the analyze button.
10. The Scientist presses the analyze button.
11. The System analyzes the dataset.
12. Execution continues to Scenario <<Scientist saves dataset in a graphical form>> step 8. Alt 4.
13. End of use case.

Alt 1.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to pre-trigger conditions and exits scenario.

Alt 2.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 3.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 4.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 1.

**Scenario 27:** Verify dataset using a Saved Property, Saved Description, and saved Dataset.

**Include Use Case:** Access Database.

**Description:** The Scientist wants to do a new analysis of a new dataset using saved properties and a saved description of a file

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system, the scientist is a registered user of the system, the scientist has selected the analyze button from a previous menu.

**Trigger Condition:** The scientist has chosen the following three options

open property

open file format

open dataset

1. Execution starts at Scenario << Select A Data Property >>, step1.
2. The Scientist confirms to keep new property. <Alt 1>.
3. Execution continues to Scenario<< Open a File Description >>.
4. The Scientist confirms to keep new file format <Alt 2>
5. System displays file selector menu.
6. Scientist selects file to be parse.
7. Execution continues to Scenario << Scientist view Dataset >>
8. The Scientist confirms to keep new dataset<Alt 3>
9. System enables the analyze button.
10. The Scientist presses the analyze button.
11. The System analyzes the dataset.
12. Execution continues to Scenario <<Scientist saves dataset in a graphical form>> step 8. Alt 4.
13. End of use case.

Alt 1.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to pre-trigger conditions and exits scenario.

Alt 2.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 3.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 3.

Alt 4.

1. The scientist cancels save feature.
2. System deletes save info from database and returns to step 1.

**Scenario <<<30>>>>:** Open a File Description

**Include Use Case:** Access Database.

**Description:** The Scientist chooses to open an existing file format

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system and the scientist is a registered user of the system.

**Trigger Condition:** The scientist has chosen the option to open a file format.

1. The system displays a form where the scientist can specify which file format they would like to select.
2. The scientist selects the file format to be removed option. (Alt 1)
3. The System accesses the database.
4. The database returns the information of the file format (Alt 1).
5. The system informs the user that the file format has been successfully retrieved from the database.
6. End of use case.

Alt 1

1. The database generates a message to the system signifying that the specified file format could not be found due to a connection issue.
2. The scientist choses the retry option to find the file format (Alt 2).
3. Continue execution at step 2.

Alt 2

1. The scientist choses to not retry selecting the file format.
2. Continue execution at step 6.

**Scenario <<<<31>>>>:** Select A Data Property.

**Include Use Case:** Access Database.

**Description:** The Scientist selects a data property that already exists in the database.

**Actors:** Scientist, Database.

**Pre-Condition:** The scientist has logged on to the system and the scientist is a registered user of the system.

**Trigger Condition:** The scientist has chosen the option to select a saved a property.

1. The system accesses the database to get a list of data properties that are available.
2. The database retrieves the list of data properties and sends the list to the system.
3. The system displays the list of data properties.
4. The scientist specifies the data property they wish to select.
5. The system accesses the database for the specific data property they selected.
6. The database retrieves the specified data property the scientist selected and sends it to the system.
7. The system generates a message to the user that the selection was successful.
8. End of use case.