**Purpose: To ensure storage type hierarchy such as Forma LN2 Tank (10\*1)🡪 LN2 Rack Large (13\*1)🡪 Vial LN2 Box Large (10\*10) can be created successfully as a super administrator.**

**Prerequisites**:

Import dump located at /files/caTissue/dump and deploy application.

**Procedure:**

1. Login as a *super administrator* ([admin@admin.com](mailto:admin@admin.com), Test123).
2. Navigate to Administrative Data --🡪Storage type—>Add page.
3. Enter details for storage type as in following table:

|  |  |
| --- | --- |
| **Name** | **Vial LN2 Box Large** |
| Default temperature | -140 |
| Text label for dimension one | Rows |
| Text label for dimension two | Columns |
| Capacity in Dimension one | 10 |
| Capacity in Dimension two | 10 |
| Can hold storage type | None |
| Can hold specimen class | Tissue, Fluid , Cell and Molecular |
| Can hold specimen array type | None |
| Can hold specimen type | All tissue ,All fluid, All cell and DNA |

1. In can hold section, Select specimen Class as Tissue, Fluid and Cell.
2. Select specimen type from Specimen type section as DNA and RNA using Add button. Select RNA and click on Remove button. Refer the expected output.
3. Click on Submit. Refer the expected output.
4. Navigate to Administrative Data ----Storage type—Add page.
5. Enter name as ***LN2 Rack Large,*** Select can hold storage type as ***Vial LN2 Box Large***. Verify the list of storage types available in Can Hold storage type list-box. Enter other details for storage type as in following table. Refer the expected output.

|  |  |
| --- | --- |
| **Name** | **LN2 Rack Large** |
| Default temperature | -140 |
| Text label for dimension one | Rows |
| Text label for dimension two | Columns |
| Capacity in Dimension one | 13 |
| Capacity in Dimension two | 1 |
| Can hold storage type | Vial LN2 Box Large |
| Can hold specimen class | None |
| Can hold specimen array type | None |
| Can hold specimen type | None |

1. Click on Submit. Refer the expected output
2. Navigate to Administrative Data ----Storage type—Add page.
3. Enter name *as* ***Forma LN2 Tank,*** Select Can hold storage type as ***LN2 Rack Large1*** .Verify the list of storage types available in Can Hold storage type list-box. Enter other details for storage type as in following table. Refer the expected output.

|  |  |
| --- | --- |
| **Name** | **Forma LN2 Tank** |
| Default temperature | -140 |
| Text label for dimension one | Rows |
| Text label for dimension two | Columns |
| Capacity in Dimension one | 10 |
| Capacity in Dimension two | 1 |
| Can hold storage type | LN2 Rack Large1 |
| Can hold specimen class | None |
| Can hold specimen array type | None |
| Can hold specimen type | None |

1. Click on Submit. Refer the expected output.

**Expected Output:**

5On click of add button should be able to add specimen type values as DNA and RNA. On click of remove button should be able to remove specimen type value RNA.

6 A message should be displayed as “Storage type created successfully”.

8 The storage type created in previous step that is ***Vial LN2 Box Large*** should be displayed in the list-box.

9 A message should be displayed as “Storage type created successfully”.

11 The storage type created in previous step that is ***LN2 Rack Large*** **should** be displayed in the list-box.

12 A message should be displayed as “Storage type created successfully”.

**Verification Logic:**

1. Navigate to Administrative Data-🡪Storage Type🡪Edit page. Search for the storage type with name in Vial LN2 Box Large (10\*10).
2. The storage type should display correct details such as Default temperature, Text label for Dimensions and capacity in dimensions. The created storage type should display specimen class and specimen type values highlighted. Refer the table above for details of Vial LN2 Box Large.
3. In CATISSUE\_AUDIT\_EVENT table new record should be entered with IP address equal to the IP address of the machine from which the action was performed and Event\_Timepstamp equal to the date on which the action was performed. Event\_Type should contain INSERT for catissue\_storageType.
4. In CATISSUE\_DATA\_AUDIT\_EVENT\_LOG table Object Name should contain catissue\_storageType. Object\_ID is the unique ID of the object inserted. Parent\_ID will be null for the main object. Containment or reference type objects getting added will have a parent\_id equal to the ID of the main Object being inserted. This table refers to CATISSUE\_AUDIT\_EVENT\_LOG table which relates to the CATISSUE\_AUDIT\_EVENT table.
5. In CATISSUE\_AUDIT\_EVENT\_DETAILS table Element name contains the list of attributes that are in catissue\_storageType, catissue\_capacity. ID of all the reference and containment association classes should also be audited.
6. Refer the data model and audit metadata.xml to find out the classes with containment and reference association with the main class. All the classes and attributes should be audited in respective audit tables.