**TMT location:**

1. Log in to TMT (<http://vtest11.wustl.edu:8080/catissuetmt/Home.do>).
2. Select Test cases tab.
3. Expand caTissue product from the tree view.
4. Expand Mater List-v2.0 version
5. Expand Biospecimen Component
6. Expand Specimen test area
7. Select Test case ID 401 with short title EDIT\_MultipleSpecimen\_edit\_success\_MyListView

**Purpose:** Test to ensure that multiple specimens can be edited successfully.

**Pre-requisites:**

Import latest dump located at

Oracle: https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/v2.0/Oracle

MySQL: https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/v2.0/MySQL and deploy application with label generator settings ON for specimen with value “edu.wustl.catissuecore.namegenerator.DefaultSpecimenLabelGenerator”.

**Procedure:**

1. Login as Super Administrator, login ID: [admin@admin.com](mailto:admin@admin.com) password: Test123.
2. Navigate to Search 🡪 Saved Queries page. (Refer Expected Output)
3. Execute “Multiple Specimen update – My List View” query. (Refer Expected Output)
4. Select Check All check box.
5. Click on Add to My List button. (Refer Expected Output)
6. Navigate to Search 🡪 My List View page.
7. Click on Export button. Click on Save button (Refer Expected Output)
8. Select “Multiple Specimen Page” radio button.
9. Click on Submit button.(Refer Expected Output)
10. Update specimens as per the below table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute | Specimen1 | Specimen2 | Specimen3 | Specimen4 | Specimen5 |
| Label | a1 | a2 | a3 | a4 | a5 |
| Barcode | aa1 | aa2 | aa3 | aa4 | aa5 |
| Tissue Site |  |  |  |  |  |
| Tissue Side |  |  |  |  |  |
| Pathological Status | Malignant |  | Metastatic |  | Pre-Malignant |
| External Identifier | Ex-1 | Ex-2 | Ex-3 | Ex-4 | Ex-5 |
| Biohazards |  | Infectious: Biohazard\_Infectious |  |  |  |
| Derivative | Yes | Yes |  | Yes |  |

Create Derivative Specimen details:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute | Create Derivative Specimen1 | Create Derivative Specimen2 | Create Derivative Specimen3 | Create Derivative Specimen4 | Create Derivative Specimen5 |
| Label | a1\_der | a2\_der |  | a4\_der |  |
| Class | Cell | Fluid |  | Fluid |  |
| Type | Slide | Whole Blood |  | Whole Blood |  |
| Quantity | 1 | 1 |  | 1 |  |
| Storage | Auto | Auto |  | Manual |  |

1. Click on “Submit” button. (Refer Expected Output)
2. Select radio button for a4 specimen. Enter Storage location as “Forma LN2 F 1 (10, 1)” of Laboratory of Translational Pathology site.
3. Click on “Submit” button. (Refer Expected Output)

**Expected Output:**

2) Queries shared to all will be displayed.

3) The query will be executed successfully. The result will be displayed in the Advanced Query result page.

5) All the specimens in the result will be added to My List and can be viewed on My List View Page.

7) Pop up window will be displayed with option to either Save or Open the exported file. Save option will save the data file locally in csv format. The data in the file will be same as displayed on the My List View page.

9) All specimens will be displayed on Multiple Specimens edit page.

11) Specimen updated successfully will be displayed on the same page. Specimen details page will be displayed.

13) Specimen successfully created success message will be displayed for the derivatives added to the specimen.

**Verification Logic:**

1. Specimens will be listed in the search result for “Specimen ID Not Null” Simple query with the updated data. The derivatives that are added will also be displayed in the search result.
2. Following changes will be reflected in the AUDIT tables:

* 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 UPDATE for catissue\_<specimen type>\_specimen.
* In CATISSUE\_AUDIT\_EVENT\_LOG table Object\_Name should contain catissue\_<specimen type>\_specimen, CATISSUE\_EXTERNAL\_IDENTIFIER (if added), CATISSUE\_SPECIMEN\_EVENT\_PARAM, CATISSUE\_SPECIMEN\_POSITION, CATISSUE\_CONSENT\_TIER\_STATUS and CATISSUE\_SPECIMEN\_CHAR. Object\_ID is the unique ID of the object updated. Parent\_ID will be null for the main object (Specimen). 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.
* In CATISSUE\_AUDIT\_EVENT\_DETAILS table Element\_name contains the list of attributes that are in catissue\_<specimen type>\_specimen, CATISSUE\_SPECIMEN\_EVENT\_PARAM, CATISSUE\_SPECIMEN\_POSITION, CATISSUE\_EXTERNAL\_IDENTIFIER (if added), CATISSUE\_CONSENT\_TIER\_STATUS and CATISSUE\_SPECIMEN\_CHAR tables. Previous\_value will be null for aliquots/derivatives/new specimen and Current\_value will be the values updated/added through UI. ID of CATISSUE\_STORAGE\_CONTAINER, CATISSUE\_BIOHAZARD (if added) will only be audited as they are reference association. ID of CATISSUE\_SPECIMEN\_CHAR, CATISSUE\_SPECIMEN\_EVENT\_PARAM (Collected and received events), CATISSUE\_CONSENT\_TIER\_STATUS, CATISSUE\_SPECIMEN\_POSITION and CATISSUE\_EXTERNAL\_IDENTIFIER will also be audited along with their attributes as it is a containment type attribute.

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.