

Associated Engineering Team Discovery Channel Test Plan

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Document Information

Revision History

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Summary

Front end testing will primarily be integration testing with a mixture of automation using Cypress and manual testing. Following a risk based approach, primary focus will be on working CRUD functionality for records, containers, and volumes following proper business rules. Authentication and accurate validation responses following business requirements will be secondary following working functionality of the CRUD. We anticipate 4 test cycles given the likely amount of manual testing involved and time required to learn and automate testing. These test cycles will be composed of both SAT and UAT.

Backend testing will be done with unit testing. The primary focus will be testing the major endpoints, including CRUD for records, containers, adding and removing records into and from containers, and create volumes. Along with the major functionalities unit testing, user and location authentication will be tested to adhere business requirements.

Back end

- Unit tests (JUnit Jupiter v5.1.0)

Front end

- Integration Tests (Cypress v2.1.0)
 - Validate use cases
 - Validate the interaction and flow of data between React components along with API calls
- Manual testing
 - Validate the user interface and user experience
 - Validate APIs, their connectivity and response data

Functional Test Plan

Create record(s)

1. Testing technique:
 - a. White box testing for API calls and field validation
 - b. Black box testing for field validation
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Front End - White box integration testing to observe accurate response payload for validation and form population (manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper validation responses (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 1 for successful completion
 - b. 3 for invalid submissions

- c. 3 backend unit tests

Retrieve records(s)

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for field population
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Front End - White box integration testing to observe accurate response payload for page population(manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper validation responses for page population (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 1 for successful navigation
 - b. 3 backend unit tests

Update record(s)

1. Testing technique:
 - a. White box testing for API calls and field validation
 - b. Black box testing for field validation
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Front End - White box integration testing to observe accurate response payload for validation and form population (manual)
 - ii. Backend - unit testing
 - b. UAT
 - i. Front End - Black box testing to observe proper validation responses (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 1 for successful completion
 - b. 2 for invalid submissions
 - c. 3 backend unit tests

Delete record(s)

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for proper form pop-up
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Front End - White box integration testing to observe accurate response payload (manual)
 - ii. Back End - unit testing
 - b. UAT
 - i. Front End - Black box testing to observe accurate pop-up for delete button click
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 2 for successful deletion (single and multiple delete)
 - b. 7 backend unit tests

Destroy record(s)

4. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for proper form pop-up
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
5. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Front End - White box integration testing to observe accurate response payload (manual)
 - ii. Back End - unit testing
 - b. UAT
 - i. Front End - Black box testing to observe accurate pop-up for delete button click
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
6. Number of anticipated scripts:
 - a. 1 for successful completion
 - b. 1 for attempting to destroy a record with a destruction date in the future
 - c. 11 backend unit tests

Create volumes(s)

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for selection and appropriate page/data
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Back end - Unit testing with relevant classes and methods
 - ii. Front End - White box integration testing to observe accurate response payload for specific user (manual), and accurate pop-up for Create Volume button
 - b. UAT
 - i. Front End - Black box testing to observe proper movement between pages
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 2 for successful creation (non-volume, volume)
 - b. 2 for unsuccessful creation (selection of different record number prefix, legacy)
 - c. 4 backend unit tests

Create container(s)

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for redirect to appropriate page
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Back end - Unit testing with relevant classes and methods
 1. Containers, containing records, database query results
 - ii. Front End - White box integration testing to observe accurate response payload for specific user (manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper movement between pages (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 1 for successful creation
 - b. 2 for unsuccessful creation (invalid location, and records with different schedules)

- c. 4 backend unit tests

Retrieve container(s)

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for redirect to appropriate page
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Back end - Unit testing with relevant classes and methods
 - 1. Containers, containing records, database query results
 - ii. Front End - White box integration testing to observe accurate response payload for specific user (manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper movement between pages (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 1 for successful search and displaying container details
 - b. 3 backend unit tests

Update container(s)

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for redirect to appropriate page
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Back end - Unit testing with relevant classes and methods
 - 1. Containers, containing records, database query results
 - ii. Front End - White box integration testing to observe accurate response payload for specific user (manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper movement between pages (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown

3. Number of anticipated scripts:
 - a. 1 for successfully updating a container's fields and it's containing records
 - b. 1 for invalidate state selection for updating a container and its containing records
 - c. 3 backend unit tests

Delete container(s)

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for redirect to appropriate page
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Back end - Unit testing with relevant classes and methods
 1. Containers, database query results
 - ii. Front End - White box integration testing to observe accurate response payload for specific user (manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper movement between pages (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 1 for successful deletion of a container
 - b. 7 backend unit tests

Search for records/containers

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for table results and selections
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Front End - White box integration testing to observe accurate response payload for specific user (manual)
 - b. UAT
 - i. Front End - Black box testing to observe results and selections
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown

3. Number of anticipated scripts:
 - a. 3 for successful/valid search, filtering, selections
 - b. 1 for unsuccessful search (number doesn't exist)
 - c. 6 backend unit tests

Permissions

4. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for redirect to appropriate page
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
5. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Front End - White box integration testing to observe accurate response payload for specific user (manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper movement between pages (automation cypress)
6. Number of anticipated scripts:
 - a. 3 for successful navigation (admin, general user, RMC)
 - b. 3 for unsuccessful navigation (admin general user, RMC)

Add record to existing container

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for redirect to appropriate page
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Back end - Unit testing with relevant classes and methods
 1. Containers, containing records, database query results
 - ii. Front End - White box integration testing to observe accurate response payload for specific user (manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper movement between pages (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 1 for successfully adding a record to an existing container

- b. 4 backend unit tests

Remove record from existing container

1. Testing technique:
 - a. White box testing for API calls
 - b. Black box testing for redirect to appropriate page
 - c. Mixture of automation and manual
 - i. Risk of Cypress - Time consuming to set up and learn
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. SAT
 - i. Back end - Unit testing with relevant classes and methods
 1. Container, record, and database query results
 - ii. Front End - White box integration testing to observe accurate response payload for specific user (manual)
 - b. UAT
 - i. Front End - Black box testing to observe proper movement between pages (automation cypress)
 - c. Unit
 - i. Back End - test specific methods by validating responses or checking correct exceptions are thrown
3. Number of anticipated scripts:
 - a. 1 for successfully removing a record from an existing container
 - b. 5 backend unit tests

Manage records/containers across searches with work tray

- Testing technique:
 - White box or black box testing for table results, selections, buttons
 - Mixture of automation and manual
 - Risk of Cypress - Time consuming to set up and learn
- Different approaches based on type of testing (Unit, SAT, UAT):
 - SAT
 - White box integration testing to observe functional buttons and selections (manual)
 - UAT
 - Black box testing to observe to observe accurate data being added and removed
- Number of anticipated scripts:
 - 5 for successful add, selections, removing an item, clearing tray, persisting data
 - 1 for unsuccessful add (already exists)

Non Functional testing

Availability

1. Testing technique:
 - a. Set up availability testing on Azure that will ping the client and server at regular intervals
 - b. Email notifications if 2 consecutive pings fail to return a successful response
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. Only system testing applies here configured via the Azure website
3. Number of anticipated scripts:
 - a. 2 alerts on Azure (server and client)

Compatibility

1. Testing technique:
 - a. Compatibility testing with different browsers
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. UAT
 - i. Run through basic manual tests of CRUD functionality and search on IE11
3. Number of anticipated scripts:
 - a. 0 scripts

Load

1. Testing technique:
 - a. Load testing manually with concurrent users or automatically with scripts
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. Unit
 - i. Run parallel unit tests that create different record types and observe response time on backend logger
 - b. UAT
 - i. Set a date and get at least 10 people to concurrently creating multiple records and observe response time of server on backend logger
3. Number of anticipated scripts:
 - a. 1 scripts if run with unit test

Stress

1. Testing technique:
 - a. Stress test by obtaining the same record resource
2. Different approaches based on type of testing (Unit, SAT, UAT):
 - a. Unit
 - i. Run looped unit test that get records 1000 times and observe average response time on backend-logger
 - b. SAT

- i. Run automated cypress script to loop through get view record page 1000 times and get average response time
- 3. Number of anticipated scripts:
 - a. 1 script

Test scripts

We will use the provided test data in *RecordR-Schema.sql* and *RecordR-Data.sql*.

The database will also be populated with user roles and locations.

See *populateUserLocations.sql* and *populateUserRoles.sql* in the appendix.

Back end	<p>Create record(s)</p> <ol style="list-style-type: none"> 1. Successfully create record with valid parameters <ol style="list-style-type: none"> a. Call <code>createRecord(record, 500);</code> record with populated fields: <ul style="list-style-type: none"> - { "title" : "CREATED FOR TESTING", "number": "edm-CLIENT", "scheduleId" : 10, "typeld":70, "consignmentCode" : "RF011329724", "containerId" : 166132, "locationId" : 5, "classifications" : "Advisory Services/Advice/Reports", "notes" : "CREATED FOR TESTING -- testCreateRecord"} b. Expect to return <ul style="list-style-type: none"> - { "title": "CREATED FOR TESTING", "number": "edm-CLIENT.167", "scheduleId": 10, "typeld": 70, "consignmentCode": "RF011329724", "containerId": 166132, "locationId": 5, "classifications": "ADVISORY SERVICES/ADVICE/Reports", "notes": "CREATED FOR TESTING -- testCreateRecord", "id": 188010, "stateld": 1, "createdAt": 1520236800000,
----------	--

```

        "updatedAt": 1520236800000,
        "closedAt": null,
        "location": "Edmonton",
        "schedule": "BUSINESS DEVELOPMENT - GREETINGS",
        "type": "Client",
        "state": "Active",
        "container": "2015/366-EDM",
        "scheduleYear": 1
    }

```

2. Create record with bad role
 - createRecord(record, 400)
 - Expect to throw AuthenticationException
3. Create record with bad location
 - createRecord(record, 500) *record.locationId = 8
 - Expect to throw AuthenticationException

Update a record

1. Successfully update a record
 - Call updateRecord with form:


```

{
    "title" : "Testing Update Record",
    "scheduleId" : 36,
    "classifications" : "Advisory Services/Advice",
    "consignmentCode" : "anConsignmentCode",
    "notes" : "Testing Update Record notes",
    "stateId" : 1,
    "containerId" : 24372
}

```
 - Expect all fields are updated
 - {


```

"title": "Testing Update Record",
"number": "edm-CLIENT.167",
"scheduleId": 36,
"typeId": 70,
"consignmentCode": "anConsignmentCode",

```

```

    "containerId": 24372,
    "locationId": 5,
    "classifications": "ADVISORY SERVICES/ADVICE",
    "notes": "Testing Update Record notes",
    "id": 188010,
    "stateId": 1,
    "createdAt": 1520236800000,
    "updatedAt": 1520236800000,
    "closedAt": null,
    "location": "Edmonton",
    "schedule": "BUSINESS DEVELOPMENT - LIAISON",
    "type": "Client",
    "state": "Active",
    "container": "2007/021-EDM",
    "scheduleYear": 5
}

```

2. Update record with bad role
 - Call updateRecord with user id 400
 - Expect to throw bad Authentication error
3. Update record with bad privilege
 - Create a record at location 5
 - Call updateRecord with user 478
 - Expect to throw BadAuthentication error

Retrieve record(s)

1. Successful one record retrieval:
 - Call getRecordById(51, userId)
 - Return a record object containing


```
{
            "title": "Laboriosam at sapiente temporibus",
            "number": "EDM-2003/001",
            "scheduleId": 26,
            "typeId": 3,
            "consignmentCode": "DESTRUCTION CERTIFICATE 2009-01",
            "containerId": 24365,
            "locationId": 5,
            "classifications": "BUSINESS DEVELOPMENT/CONFERENCES",
          }
```

```

    "notes": "Quae commodi minima fugiat qui quia aliquam in.",
    "id": 51,
    "stateId": 6,
    "createdAt": 1063609200000,
    "updatedAt": 1238050800000,
    "closedAt": 1072857600000,
    "location": "Edmonton",
    "schedule": "BUSINESS DEVELOPMENT - CONFERENCES",
    "type": "Subject",
    "state": "Destroyed",
    "container": "2007/014-EDM",
    "scheduleYear": 5
}

```

2. Unsuccessful non-existent record retrieval:

- Call getRecordById(50, userId)
- Return null

3. Unsuccessful one record retrieval with bad location:

- Call getRecordById(51='Edmonton', userId='Calgary')
- Assertion:
 - AuthenticationException is thrown

Delete record(s)

1. Successful one record deletion with RMC user:

- Create a sample record with no volume
- Call deleteRecords(userId, id)
- Return {id: id,
 - msg:""
 - status:true}
}

2. Successful multiple records deletion with RMC user:

- Create three sample records with no volume
- Call deleteRecords(userId, [id1, id2, id3])
- Return [{id: id1
 - Msg:""
 - status: true},
{id: id2
 - Msg:""
 - status: true},
{id: id3
 - Msg:""
 - status: true}]
}

3. Unsuccessful multiple records deletion with RMC user:

- Call deleteRecords(userId, [non-existing id1, non-existing id2, non-existing id3])

- Assertion:
 - NoResultsFoundException is thrown
4. Unsuccessful multiple records deletion with RMC user:
- Create a sample record with no volume
 - Call deleteRecords(userId, [existing id1, non-existing d2, non-existing d3])
 - Assertion:
 - NoResultsFoundException is thrown
5. Unsuccessful one record deletion with non-RMC user:
- Create a sample record with no volume
 - Call deleteRecords(userId, id)
 - Assertion:
 - AuthenticationException is thrown
6. Unsuccessful record deletion with empty argument with RMC user:
- Call deleteRecords(userId, [])
 - Return empty response with error message
7. Unsuccessful one record deletion with bad location:
- Create a sample record with location in Toronto
 - Choose a 'Calgary' user's userid
 - Call deleteRecord(userId, id)
 - Assertion:
 - AuthenticationException is thrown

Destroy records

1. Successful one record destruction with RMC user:
 - Create a record with StatId not equal to 6 and the addition of ClosedAt and retention schedule passes current date.
 - Call destroyRecords(record id, userId)
 - Assertion:
 - HttpStatus code 200 ok and database returns no results for record.
2. Successful multiple records destruction with RMC user:
 - Create three separate records with StatId not equal to 6 and each of its addition of ClosedAt and retention schedule is smaller than the current date.
 - Call destroyRecords('id1, id2, id3', userId)
 - Assertion:
 - HttpStatus code 200 ok and database returns no results for record.
3. Successful multiple records with StatId = 6 with RMC user:
 - Create three separate records with StatId = 6 and each of its addition of ClosedAt and retention schedule is smaller than current date.
 - Call destroyRecords('id1, id2, id3', userId)
 - Assertion:
 - HttpStatus code 200 ok and database returns no results for record.

4. Unsuccessful multiple records destruction with non-RMC user:
 - Create three separate records with StatId not equal to 6 and each of its addition of ClosedAt and retention schedule is smaller than current date.
 - Call destroyRecords('id1, id2, id3', userId)
 - Assertion:
 - Throws AuthenticationException with error message "User is not authenticated to destroy record."
5. Unsuccessful destruction for one record with future destruction date with RMC user:
 - Create a record with StatId not equal to 6 and the addition of ClosedAt date and retention schedule is bigger than the current date
 - Call destroyRecords(record id, userId)
 - Assertion:
 - HttpStatus 400 bad request and database returns id with error message "The record's retention period has not ended yet."
6. Unsuccessful destruction for one record without ClosedAt with RMC user:
 - Create a record with StatId not equal to 6 and ClosedAt = null
 - Call destroyRecords(record id, userId)
 - Assertion:
 - HttpStatus 400 bad request and database returns id with error message "The record is not closed."
7. Unsuccessful destruction for multiple records without ClosedAt with RMC user:
 - Create three separate records with StatId not equal to 6 and each of its ClosedAt is null.
 - Call destroyRecords('id1, id2, id3', userId)
 - Assertion:
 - HttpStatus 400 bad request and database returns id1, id2, id3 with error message "The record is not closed."
8. Unsuccessful destruction for multiple records with future destruction dates with RMC user:
 - Create three separate records with StatId not equal to 6 and each of its addition of ClosedAt date and retention schedule is bigger than the current date
 - Call destroyRecords('id1, id2, id3', userId)
 - Assertion:
 - HttpStatus 400 bad request and database returns id1, id2, id3 with error message "The record's retention period has not ended yet."

9. Unsuccessful destruction for some records without ClosedAt and some records with future destruction dates with RMC user:
- Create two separate records (id1, id2) with StatId not equal to 6 and each of its ClosedAt is null.
 - Create another two separate records (id3, id4) with StatId not equal to 6 and each of its addition of ClosedAt date and retention schedule is bigger than the current date
 - Call destroyRecords('id1, id2, id3, id4', userId)
 - Assertion:
 - HttpStatus 400 bad request and database returns id1, id2 with error message "The record is not closed."
10. Unsuccessful destruction for some records are qualified for destruction, some records without ClosedAt and some records with future destruction dates with RMC user:
- Create two separate records (id1, id2) with StatId not equal to 6 and each of its ClosedAt is null.
 - Create another two separate records (id3, id4) with StatId not equal to 6 and each of its addition of ClosedAt date and retention schedule is bigger than the current date
 - Create another one separate record (id5) with StatId not equal 6 and the addition of ClosedAt and retention schedule is smaller than the current date
 - Call destroyRecords('id1, id2, id3, id4,id5', userId)
 - Assertion:
 - HttpStatus 400 bad request and database returns id1, id2 with error message "The record is not closed."
11. Unsuccessful destruction for a record with bad location:
- Create record with statId not equal to 6 with location in Toronto
 - Choose a 'Calgary' userId
 - Call destroyRecords(id, userId)
 - Assertion:
 - Throws AuthenticationException with error message "User is not authenticated to destroy record at this location."

Create volumes(s)

1. Ignores legacy volumes
 - a. Call createVolume(recordId: 72, userId: 500, copyNotes: false)
userId should have access to location of testRecord
 - Assertion:
Throws IllegalArgumentException with message "Unsupported volume format for create volume EDM-2003/020:1:01"

2. Create a new volume from latest volume
 - a. Call getRecordById(142242) to compare against later
 - b. Call createVolume(142242, 500, false)
 - c. Returned volume should have:
 - Number: VIC_P_2014-001:13
 - All other fields except id, number, createdAt and updatedAt matching earlier retrieved record
 - d. Call getRecordById(142242)
Returned record should have:
- StatId: 2
3. Create a new volume from non-latest volume
 - a. Call createVolume(142241, 500, false)
userId should have access to location of testRecord
- Assertion:
Throws IllegalArgumentException with message "Unable to create new volume from record number VIC_P_2014-001:12. New volumes can only be created from latest existing volume."
4. Create a new volume from non-volume record
 - a. Call getRecordById(62) to compare against later
Returned record should have:
- Number: EDM-2003/012
- StatId: 1
 - b. Call createVolume(61, 500, true)
 - c. Returned volume should have:
 - recordNumber: EDM-2003/012:02
 - All other fields except createdAt and updatedAt matching earlier retrieved record
 - d. Call getRecordById(142242)
Returned record should have:
- Number: EDM-2003/012:01
- StatId: 2
- Notes: Matches notes from newly created volume :02

Create container(s)

1. Successfully create container with valid parameters
 - c. Call createContainer(container, 500); container with populated fields:
 - {
"title" : "CREATED FOR TESTING",
"containerNumber": "edm-CLIENT",
"notes" : "This is a note!",
"Records": [188010]
}

- d. Expect to return
- {
 "containerId": 166132,
 "containerNumber": 23400,
 "Title": "CREATED FOR TESTING",
 "createdAt": 1520236800000,
 "updatedat": 1520236800000,
 "destructionDate": 1520236800000,
 "consignmentCode": "RF011329724",
 "statelid": 1,
 "State": "Active",
 "locationId": 5,
 "Location": "Edmonton",
 "scheduleId": 10,
 "Schedule": "BUSINESS DEVELOPMENT - GREETINGS",
 "Type": "client",
 "Notes": "This is a note!",
 "Records": [188010]
 }
}
 - 2. Create container with bad role
 - createContainer(container, 400)
 - Expect to throw authenticationException
 - 3. Create container with a record at a bad location
 - createContainer(container, 500) where one of the records referenced in records: [...] location = 8
 - Expect to throw authenticationException
 - 4. Create container with multiple records, but at least 2 records have different state, type, location, consignmentCode, or schedule.
 - createContainer(container, 500) where one record has locationId=5, another has locationId = 8
 - Expect to throw InvalidContainerAdditionException

Retrieve container(s)

1. Successfully retrieve container by id
 - a. Call getContainerById(166132, 500)
 - Expect container with the following data:
 {
 "containerId": 166132,
 "containerNumber": 23400,
 "Title": "CREATED FOR TESTING",
 "createdAt": 1520236800000,
 "updatedAt": 1520236800000,

- ```

 "destructionDate" : 1520236800000,
 "consignmentCode" : "RF011329724",
 "statId" : 1,
 "State" : "Active",
 "locationId" : 5,
 "Location" : "Edmonton",
 "scheduleId" : 10,
 "Schedule" : "BUSINESS DEVELOPMENT - GREETINGS",
 "Type" : "client",
 "Notes" : "This is a note!",
 "Records" : [188010]
 }

```
2. Retrieve non-existent container
    - a. Call getContainerById(-1, 500)
      - Expect noResultsFoundException thrown
  3. Retrieve container bad user
    - a. Call getContainerById(-1, 400)
      - Expect authenticationException thrown

#### Update container(s):

1. Update container with valid input
  - Call updateContainer(166132, 500) where container fields are:
 

```

{
 "title" : "EDITED FOR TESTING",
 "containerNumber": "edm-CLIENT-update",
 "notes" : "Updated a note!",
 "Records": [188010]
}

```

    - Expect:

```

{
 "containerId" : 166132,
 "containerNumber" : edm-CLIENT-update,
 "Title" : "EDITED FOR TESTING",
 "createdAt" : 1520236800000,
 "updatedat" : 1520347800000,
 "destructionDate" : 1520236800000,
 "consignmentCode" : "RF011329724",
 "statId" : 1,
 "State" : "Active",
 "locationId" : 5,
 "Location" : "Edmonton",
 "scheduleId" : 10,
 "Schedule" : "BUSINESS DEVELOPMENT - GREETINGS",
}

```

```
 "Type" : "client",
 "Notes" : "Updated a note!",
 "Records" : [188010]
 }
```

2. Update a container with bad role
  - Call updateContainer(166132, 400)
  - Expect authenticationException thrown
3. Update container with bad privilege
  - Call updateContainer(10519, 500)
  - Expect authenticationException thrown

#### Delete container(s)

1. Successful one empty container deletion with RMC user:
  - Create a sample container with title as "TEST" with no child records associated with it.
  - Call deleteContainers('sample container id', userId)
  - Assertions:
    - Http Status code 200 ok and database returns no results for container
2. Successful multiple empty containers deletion with RMC user:
  - Create a first sample container with title as "TEST" with no child records associated with it.
  - Create a second sample container with title as "TEST-2" with no child records associated with it.
  - Create a third sample container with title as "TEST-3" with no child records associated with it.
  - Call deleteContainers('first container id, second container id, third container id', userId)
  - Assertion:
    - Http status code 200 ok and database returns no results for container
3. Unsuccessful one non-empty container deletion with RMC user:
  - Create a sample container with title "TEST" with child records associated with it.
  - Call deleteContainers('sample container id', userId)
  - Assertion:
    - Http Status code 412 precondition failed and database returns sample container id to the front end.

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|  | <p>4. Unsuccessful multiple non-empty containers deletion with RMC user:</p> <ul style="list-style-type: none"> <li>- Create a first sample container with title as “TEST” with child records associated with it.</li> <li>- Create a second sample container with title as “TEST-2” with child records associated with it.</li> <li>- Create a third sample container with title as “TEST-3” with child records associated with it.</li> <li>- Call deleteContainers('first container id, second container id, third container id', userId)</li> <li>- Assertion: <ul style="list-style-type: none"> <li>- Http Status code 412 precondition failed and database returns first container id, second container id, third container id to the front end.</li> </ul> </li> </ul> <p>5. Unsuccessful multiple mixed containers deletion with RMC user:</p> <ul style="list-style-type: none"> <li>- Create a first container with title as “TEST-EMPTY-1” with no child records associated with it.</li> <li>- Create a second sample container with title as “TEST-2” with child records associated with it.</li> <li>- Create a third sample container with title as “TEST-3” with child records associated with it.</li> <li>- Create a fourth container with title as “TEST-EMPTY-2” with no child records associated with it.</li> <li>- Call deleteContainers('first container id, second container id, third container id, fourth container id', userId)</li> <li>- Assertion: <ul style="list-style-type: none"> <li>- Http Status code 412 precondition failed and database returns first container id, fourth container id to the front end.</li> </ul> </li> </ul> <p>6. Unsuccessful one empty container deletion with non-RMC user:</p> <ul style="list-style-type: none"> <li>- Create a sample container with title as “TEST” with no child records associated with it.</li> <li>- Call deleteContainers('sample container id', userId)</li> <li>- Assertions: <ul style="list-style-type: none"> <li>- Throws AuthenticationException with error message “User is not authenticated to delete container.”</li> </ul> </li> </ul> <p>7. Unsuccessful container deletion with bad location:</p> <ul style="list-style-type: none"> <li>- Create a sample container with location in Toronto</li> <li>- Choose a 'Calgary' userd</li> <li>- Call deleteContainers('sample container id', userId)</li> <li>- Assertions: <ul style="list-style-type: none"> <li>- Throws AuthenticationException with error message “User is not authenticated to delete container at your location.”</li> </ul> </li> </ul> |
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|  | <p>Search for records/containers:</p> <ol style="list-style-type: none"> <li>1. Successful search on record filtered by record number:           <ul style="list-style-type: none"> <li>- Call getRecordByNumber('2003'), with a userId in a restricted location</li> <li>- Return a list of record whichever contains 2003 in its record number, order by record Number and limit 20</li> <li>- No records from restricted locations other than current user's location</li> <li>- ConsignmentCode should be '****' for results not in current user's location</li> </ul> </li> <br/> <li>2. Successful search on record filtered by record number:           <ul style="list-style-type: none"> <li>- Call getRecordByNumber('Random')</li> <li>- Return empty array</li> </ul> </li> <br/> <li>3. Successful search on container filtered by container number:           <ul style="list-style-type: none"> <li>- Call getContainerByNumber('2006')</li> <li>- Return a list of containers whichever contains 2006 in its container number, order by container Number and limit 20</li> <li>- No containers from restricted locations other than current user's location</li> <li>- ConsignmentCode should be '****' for results not in current user's location</li> </ul> </li> <br/> <li>4. Successful search on container filtered by container number:           <ul style="list-style-type: none"> <li>- Call getContainerByNumber('9999999999')</li> <li>- Return empty array</li> </ul> </li> <br/> <li>5. Successful search on records and containers filtered by number:           <ul style="list-style-type: none"> <li>- Call getRecordAndContainerByNumber('2006')</li> <li>- Return a list of containers whichever contains 2006 in its container number, order by Number and limit 20</li> <li>- No results from restricted locations other than current user's location</li> <li>- ConsignmentCode should be '****' for results not in current user's location</li> </ul> </li> <br/> <li>6. Successful search on container filtered by container number:           <ul style="list-style-type: none"> <li>- Call getRecordAndContainerByNumber('9999999999')</li> <li>- Return empty array</li> </ul> </li> </ol><br><p>Add record to existing container:</p> <ol style="list-style-type: none"> <li>1. Successful record addition - container contains records           <ul style="list-style-type: none"> <li>- Call addRecordToContainer(container, record, user)</li> <li>- Validate record has the same locationId, statId, consignmentCode, scheduleId, and containerId as the container</li> </ul> </li> <br/> <li>2. Successful record addition - adding to an empty container           <ul style="list-style-type: none"> <li>- Call addRecordToContainer(container, record, user)</li> <li>- Record is added to container, and the following container fields are updated based on the record's information: statId, typeId,</li> </ul> </li> </ol> |
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|  | <p>consignmentCode, locationId, scheduleId. (ie. container.locationId = record.locationId)</p> <ol style="list-style-type: none"> <li>3. Unsuccessful record addition - user doesn't have permission <ul style="list-style-type: none"> <li>- Call addRecordToContainer(container, record, user)</li> <li>- If a non-rmc user tries to add record to container, throw authenticationException</li> </ul> </li> <li>4. Unsuccessful record addition - record does not have same locationId, statId, consignmentCode, scheduleId, or typeId as the container <ul style="list-style-type: none"> <li>- Call addRecordToContainer(container, record, user)</li> <li>- If the record to be added does not have the same locationId, statId, consignmentCode, scheduleId, and typeId as the container, throw an InvalidContainerAdditionException</li> </ul> </li> </ol> <p>Remove record from existing container:</p> <ol style="list-style-type: none"> <li>1. Successful record removal - records still remain after one is removed <ul style="list-style-type: none"> <li>- Call removeRecordFromContainer(container, record, user)</li> <li>- Record is removed from container, no other fields updated</li> </ul> </li> <li>2. Successful record removal - last record is deleted <ul style="list-style-type: none"> <li>- Call removeRecordFromContainer(container, record, user)</li> <li>- Record is removed from container, statId, locationId, typeId, scheduleId are set to 0, consignmentCode set to null</li> </ul> </li> <li>3. Unsuccessful record removal - bad role <ul style="list-style-type: none"> <li>- Call removeRecordFromContainer(container, record, user) where user is not RMC</li> <li>- Expect to throw authenticationException</li> </ul> </li> <li>4. Unsuccessful record removal - user no privileges at location <ul style="list-style-type: none"> <li>- Call removeRecordFromContainer(container, record, user) where user does not have privileges for container.locationId</li> <li>- Expect to throw authenticationException</li> </ul> </li> <li>5. Unsuccessful record removal - container does not contain record to be removed <ul style="list-style-type: none"> <li>- Expect to throw noResultsFoundException</li> </ul> </li> </ol> <p>Audit logs</p> <ol style="list-style-type: none"> <li>1. Create a record. <ul style="list-style-type: none"> <li>- Create a record</li> <li>- Audit log entry should be generated with target "Record", action "CREATE", and TargetId set to be the record ID, and UserId set to be the user ID</li> </ul> </li> <li>2. Update a record <ul style="list-style-type: none"> <li>- Update a record</li> <li>- Audit log entry should be generated with target "Record", action "UPDATE", and TargetId set to be the record ID, and UserId set to be the user ID</li> </ul> </li> <li>3. Delete a record <ul style="list-style-type: none"> <li>- Create a record</li> <li>- Delete it</li> </ul> </li> </ol> |
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|           | <ul style="list-style-type: none"> <li>- Audit log entry should be generated with target “Record”, action “DELETE”, and TargetId set to be the record ID, and UserId set to be the user ID</li> </ul> <p>4. Create a volume</p> <ul style="list-style-type: none"> <li>- Create a volume for a record           <ul style="list-style-type: none"> <li>- Audit log entry should be generated with target “Volume”, action “CREATE”, and TargetId set to be the volume ID, and UserId set to be the user ID</li> </ul> </li> </ul> <p>5. Create a container</p> <ul style="list-style-type: none"> <li>- Create a container           <ul style="list-style-type: none"> <li>- Audit log entry should be generated with target “Container”, action “CREATE”, and TargetId set to be the container ID, and UserId set to be the user ID</li> </ul> </li> </ul> <p>6. Update a container</p> <ul style="list-style-type: none"> <li>- Update a container           <ul style="list-style-type: none"> <li>- Audit log entry should be generated with target “Container”, action “UPDATE”, and TargetId set to be the container ID, and UserId set to be the user ID</li> </ul> </li> </ul> <p>7. Delete a container</p> <ul style="list-style-type: none"> <li>- Create a container           <ul style="list-style-type: none"> <li>- Delete it               <ul style="list-style-type: none"> <li>- Audit log entry should be generated with target “Container”, action “DELETE”, and TargetId set to be the container ID, and UserId set to be the user ID</li> </ul> </li> </ul> </li> </ul> |
| Front end | <p>Create record(s)</p> <ol style="list-style-type: none"> <li>1. Successfully create record of required fields       <ol style="list-style-type: none"> <li>a. Input           <ol style="list-style-type: none"> <li>i. Input “?userId = 500” at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Select a record type (eg. Subject)</li> <li>iv. Select a location if user has multiple location</li> <li>v. Input record number according to displayed format (eg. Given KKK-yyyy/ggg, input TOR-1932)</li> <li>vi. Input title of the record with less than 256 characters</li> <li>vii. Select classification (eg. Occupational health and safety/ Accidents/ Accident Investigation Report/ Fatalities)</li> <li>viii. Select retention schedule ( eg. INFORMATION MANAGEMENT - ACQUISITION I1.A1.0)</li> <li>ix. Click Submit</li> </ol> </li> <li>b. Output           <ol style="list-style-type: none"> <li>i. Redirect to view page of the created record (eg TOR-1932)</li> </ol> </li> </ol> </li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|  | <p>2. Successfully create record w/ non-required fields</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Select a record type (eg. Subject)           <ul style="list-style-type: none"> <li>1. Record Number should then prepopulate based off of selection (eg.KKK-yyyy)</li> </ul> </li> <li>iv. Select a location if user has multiple location</li> <li>v. Input record number according to displayed format (eg. Given KKK-yyyy, input TOR-1932)</li> <li>vi. Input title of the record with less than 256 characters</li> <li>vii. Select classification (eg. Occupational health and safety/ Accidents/ Accident Investigation Report/ Fatalities)</li> <li>viii. Select retention schedule ( eg. INFORMATION MANAGEMENT - ACQUISITION I1.A1.0)</li> <li>ix. Input a container number using between 1 and 12 numbers</li> <li>x. Input a consignment code between 1 and 50 characters</li> <li>xi. Input any number of characters into notes</li> <li>xii. Click Submit</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Redirect to view page of the created record (eg TOR-1932)</li> </ul> <p>3. Invalid record number</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Select a record type (eg. Subject)           <ul style="list-style-type: none"> <li>1. Record Number should then prepopulate based off of selection (eg.KKK-yyyy)</li> </ul> </li> <li>iv. Input invalid format for record number (eg. ABCD-12)</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Record number box will turn red with error message "Please input a record number in the proper format" below it</li> </ul> <p>4. No network connectivity</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Select New Record in Banner</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Red banner displaying "The application was unable to connect to the server. Please try again later"</li> </ul> <p>5. Invalid Title</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Input more than 256 characters into Title field</li> </ul> |
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|  | <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Title box will turn red with error message “Please input less than 256 characters”</li> </ul> <p>6. Invalid Retention Schedule</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input “?userId = 500” at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Type an input that does not match any of the dropdown selections</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Retention Schedule will turn red with an error message “Please select a retention schedule from the dropdown”</li> </ul> <p>7. Invalid Container Number</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input “?userId = 500” at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Type an input that contains alphabet or symbols</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Container Number will turn red with an error message “Please enter numbers only”</li> </ul> <p>8. Invalid Consignment Code</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input “?userId = 500” at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Type an input that is greater than 50 characters</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Consignment Code will turn red with an error message “Please enter less than 50 characters”</li> </ul> <p>9. Missing Fields</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input “?userId = 500” at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Click Submit</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Record Type, Classification, Title, and Retention Schedule should be red with error message “Please fill out the required field.”</li> </ul> |
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|  | <p>Retrieve records(s)</p> <ol style="list-style-type: none"> <li>1. Successfully retrieve record from search page             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input a valid record number into the search bar (eg. 2000)</li> <li>ii. Select a result in the search table</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Record number is displayed as the title</li> <li>ii. Title, State, Location, Record Type, Classification, Consignment Code, Create At, Updated At, Closed at, Retention Schedule, and Note are all populated and present on the page</li> <li>iii. Edit and Delete record are displayed on the bottom</li> </ol> </li> </ol> </li> <li>2. Successfully retrieve record from Create Records workflow             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Select New Record in Banner</li> <li>iii. Select a record type (eg. Subject)</li> <li>iv. Select a location if user has multiple location( eg Toronto)</li> <li>v. Input record number according to displayed format (eg. Given KKK-yyyy/ggg, input TOR-1932)</li> <li>vi. Input title of the record with less than 256 characters (eg Record)</li> <li>vii. Select classification (eg. Occupational health and safety/ Accidents/ Accident Investigation Report/ Fatalities)</li> <li>viii. Select retention schedule ( eg. INFORMATION MANAGEMENT - ACQUISITION I1.A1.0)</li> <li>ix. Click Submit</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Record number is displayed as the title (eg TOR-1932)</li> <li>ii. Title (Record), State (Active), Location (Toronto), Record Type(Subject), Classification ( Occupational health and safety/ Accidents/ Accident Investigation Report/ Fatalities), Consignment Code (N/A), Create At (&lt;Time Created&gt;), Updated At(&lt;Time Created&gt;), Closed at(N/A), Retention Schedule( INFORMATION MANAGEMENT - ACQUISITION (1)), and Note (N/A) are all populated and present on the page</li> <li>iii. Edit and Delete record are displayed on the bottom</li> </ol> </li> </ol> </li> <li>3. No network connectivity             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "viewRecord/500" at the end of url</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Red banner displaying "The application was unable to connect to the server. Please try again later"</li> <li>ii. Information will be missing from fields</li> </ol> </li> </ol> </li> </ol> |
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|  | <p><b>Update record(s)</b></p> <ol style="list-style-type: none"> <li>1. Successfully update record without any modifications             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Input a valid record number into the search bar (eg. 2000)</li> <li>iii. Select a result in the search table</li> <li>iv. Click the Edit Record button</li> <li>v. Click Submit</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Redirect to view page of the created record</li> </ol> </li> </ol> </li> <li>2. Successfully update record with modifications             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Input a valid record number into the search bar (eg. 2000)</li> <li>iii. Select a result in the search table</li> <li>iv. Click the Edit Record button</li> <li>v. Input title of the record with less than 256 characters</li> <li>vi. Reselect a classification</li> <li>vii. Reselect a retention schedule</li> <li>viii. Select a new state</li> <li>ix. Input a new container number between 1 and 12 numbers</li> <li>x. Input a new consignment code between 1 and 50 characters</li> <li>xi. Input text into notes</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Redirect to view page with all the modifications made to update page</li> <li>ii. Updated At is changed to date and time at this moment</li> </ol> </li> </ol> </li> <li>3. No network connectivity             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "/updateRecord" at the end of url</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Red banner displaying "The application was unable to connect to the server. Please try again later"</li> </ol> </li> </ol> </li> <li>4. Invalid Title             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Input a valid record number into the search bar (eg. 2000)</li> <li>iii. Select a result in the search table</li> <li>iv. Click the Edit Record button</li> <li>v. Input more than 256 characters into Title field</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Title box will turn red with error message "Please input less than 256 characters"</li> </ol> </li> </ol> </li> </ol> |
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|  | <p>5. Invalid Retention Schedule</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Input a valid record number into the search bar (eg. 2000)</li> <li>iii. Select a result in the search table</li> <li>iv. Click the Edit Record button</li> <li>v. Type an input that does not match any of the dropdown selections</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Retention Schedule will turn red with an error message "Please select a retention schedule from the dropdown"</li> <li>ii. 256 characters</li> </ul> <p>6. Invalid Container Number</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Input a valid record number into the search bar (eg. 2000)</li> <li>iii. Select a result in the search table</li> <li>iv. Click the Edit Record button</li> <li>v. Type an input that contains alphabet or symbols</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Container Number will turn red with an error message "Please enter numbers only"</li> </ul> <p>7. Invalid Consignment Code</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Input a valid record number into the search bar (eg. 2000)</li> <li>iii. Select a result in the search table</li> <li>iv. Click the Edit Record button</li> <li>v. Type an input that is greater than 50 characters</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Consignment Code will turn red with an error message "Please enter less than 50 characters"</li> </ul> |
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### Delete record(s)

1. Successful record deletion
 

a. Input

  - i. Input "?userId = 500" at the end of url
  - ii. Input a valid record number into the search bar (eg. 2000)
  - iii. Select a result in the search table
  - iv. Click the Delete Record button

b. Output

  - i. Redirect to results page with green banner message "<Record Number> has been deleted."

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|  | <p>2. Successful deletion of multiple records</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Input a valid record number into the search bar (eg. 2000)</li> <li>iii. Select multiple results in the search table</li> <li>iv. Click the Delete Record button</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Redirect to results page with green banner message "Records have been deleted: &lt;Record Number1&gt;, &lt;Record Number 2&gt;..."</li> </ul>                                                                                                 |
|  | <p><b>Destroy records</b></p> <p>1. Successful record destruction</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Search for records by typing in "EDM-2003" into search bar</li> <li>iii. Select a result in the search table</li> <li>iv. Click the destroy record button</li> <li>v. Click "confirm" in the pop up window</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. The record state is updated to "Destroyed"</li> <li>ii. The record's container number is removed</li> </ul>                                                                     |
|  | <p>2. Destruction date is in the future</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Input "?userId = 500" at the end of url</li> <li>ii. Search for records by typing in "20133525" into search bar</li> <li>iii. Select a result in the search table</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. The destroy button in the navigation bar is disabled</li> </ul>                                                                                                                                                                                                                                         |
|  | <p><b>Create volumes(s)</b></p> <p>1. Invalid selections</p> <p>a. Containers</p> <ul style="list-style-type: none"> <li>i. Input <ul style="list-style-type: none"> <li>1. Search for "5555"</li> <li>2. Select a container and select a record</li> </ul> </li> <li>ii. Output <ul style="list-style-type: none"> <li>1. Create Volume button is not visible or clickable</li> </ul> </li> </ul> <p>b. Different record number</p> <ul style="list-style-type: none"> <li>i. Input <ul style="list-style-type: none"> <li>1. Search for "5555"</li> <li>2. Filter by "Records"</li> <li>3. Select any combination of records</li> </ul> </li> </ul> |

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|  | <p>ii. Output</p> <ol style="list-style-type: none"> <li>1. Create Volume button is not visible or clickable if more than 1 record is selected</li> </ol> <p>c. Legacy</p> <p>i. Input</p> <ol style="list-style-type: none"> <li>1. Search for “EDM-2003/034”</li> <li>2. Filter by “Records”</li> <li>3. Select a legacy volume such as “EDM-2003/034:1:01”</li> <li>4. Select and unselect any combinations of the legacy and non-legacy volumes</li> </ol> <p>ii. Output</p> <ol style="list-style-type: none"> <li>1. Create Volume button is not visible or clickable if only legacy volumes are selected</li> <li>2. Create Volume is visible and clickable as long as there are other non-legacy volumes selected (with matching numbers before the colon)</li> </ol> <p>2. Create a new volume from latest volume</p> <p>a. Input</p> <ol style="list-style-type: none"> <li>i. Search for a double digit volume like “:10”</li> <li>ii. Filter by “Records”</li> <li>iii. Select a result in the search table</li> <li>iv. Assert that Create Volume button is visible</li> <li>v. Click the Create Volume button</li> <li>vi. Assert <ol style="list-style-type: none"> <li>1. Redirects to URL that ends in ‘/createVolume’</li> <li>2. Page contains “New Volume”</li> <li>3. Displays an ordered list of volumes</li> <li>4. Underneath the list is a “NEW: &lt;record number&gt;:##” with the last volume number of the list +1</li> <li>5. All the volumes are the same before the colon</li> <li>6. If there are notes in the last volume, display in the text box below, otherwise it is empty.</li> <li>7. The text box is not editable.</li> <li>8. There are cancel and submit buttons</li> </ol> </li> <li>vii. Check the checkbox if you want to copy notes over to new volume</li> <li>viii. Click Submit/Cancel</li> </ol> <p>b. Output</p> <ol style="list-style-type: none"> <li>i. Redirects to the view record page of the new volume record</li> <li>ii. Cancel redirects back to results page after a few seconds</li> </ol> |
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|  | <p>3. Create a new volume from non-volume record</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Search for records like “5555”</li> <li>ii. Filter by “Records”</li> <li>iii. Select a result in the search table that’s not a volume</li> <li>iv. Assert that Create Volume button is visible</li> <li>v. Click the Create Volume button</li> <li>vi. Assert           <ul style="list-style-type: none"> <li>1. Redirects to URL that ends in ‘/createVolume’</li> <li>2. Page contains “New Volume”</li> <li>3. Displays only the selected record in list next to “UPDATED” and have an arrow pointing to “&lt;record number&gt;:01”</li> <li>4. Underneath the record is a “NEW: &lt;record number&gt;:02”</li> <li>5. All the volumes are the same before the colon</li> <li>6. If there are notes in record, display in the text box below, otherwise it is empty.</li> <li>7. The text box is not editable.</li> <li>8. There are cancel and submit buttons</li> </ul> </li> <li>vii. Check the checkbox if you want to copy notes over to new volume</li> <li>viii. Click Submit/Cancel</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Redirects to the view record page of the new volume record</li> <li>ii. Cancel redirects back to results page after a few seconds</li> </ul> |
|  | <p>Create container(s)</p> <p>1. Successfully create container</p> <p>a. Input:</p> <ul style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Input “?userId = 500” at the end of url</li> <li>iii. Enter ‘345’ into the search bar and press enter</li> <li>iv. Assert that records show up in the table</li> <li>v. Select two records with the same location and schedules</li> <li>vi. Click ‘Contain Records’ in the navigation bar</li> <li>vii. Assertions:           <ul style="list-style-type: none"> <li>1. Redirect to URL that ends with ‘/createContainer’</li> <li>2. Page title says “New Container”</li> <li>3. There is a destruction date</li> <li>4. There are title, location, and notes fields</li> <li>5. There are cancel and submit buttons</li> <li>6. The table contains selected records from results page</li> </ul> </li> <li>viii. Enter title ‘test new container’</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                        |

- ix. Choose location that is the same as the selected records
- x. Enter notes “test new container notes”
- xi. Press submit
- b. Output
  - i. URL that ends with /viewContainer/<container id>
  - ii. Title is the name of created container <year>/<generated #>-<locationCode>
  - iii. Title is ‘test new container’
  - iv. Location is same as containing records
  - v. State is “Archived - Local”
  - vi. Closed At is set to current time
  - vii. Notes contains “test new container notes”
  - viii. Table contains selected records

2. Validation errors for create container

- a. Input
  - i. Go to home page
  - ii. Input “?userId = 500” at the end of url
  - iii. Enter ‘345’ into the search bar and press enter
  - iv. Select two records with the same location
  - v. Click ‘Contain Records’ in the navigation bar
  - vi. Choose location different from the location of the selected record
  - vii. Press submit
- b. Output
  - i. Form validation error for invalid location

3. Contain records with different retention schedules

- a. Input:
  - i. Go to home page
  - ii. Input “?userId = 500” at the end of url
  - iii. Enter ‘456’ into the search bar and press enter
  - iv. Assert that records show up in the table
  - v. Select two records with different retention scheules
  - vi. Click ‘Contain Records’ in the navigation bar
  - vii. Enter title ‘test new container’
  - viii. Choose location that is the same as the selected records
  - ix. Enter notes “test new container notes”
  - x. Press submit

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|  | <p>b. Output</p> <ul style="list-style-type: none"> <li>i. URL that ends with /viewContainer/&lt;container id&gt;</li> <li>ii. Title is the name of created container &lt;year&gt;/&lt;generated #&gt;-&lt;locationCode&gt;</li> <li>iii. Title is ‘test new container’</li> <li>iv. Location is same as containing records</li> <li>v. State is “Archived - Local”</li> <li>vi. Closed At is set to current time</li> <li>vii. Notes contains “test new container notes”</li> <li>viii. Table contains selected records</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  | <p>Retrieve container(s)</p> <ol style="list-style-type: none"> <li>1. Successfully retrieve container             <ol style="list-style-type: none"> <li>a. Input                     <ul style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Input “?userId = 500” at the end of url</li> <li>iii. Enter ‘345’ into the search bar and press enter</li> <li>iv. Select two records with the same location</li> <li>v. Click ‘Contain Records’ in the navigation bar</li> <li>vi. Enter title ‘test new container’</li> <li>vii. Choose location that is the same as the selected records</li> <li>viii. Enter notes “test new container notes”</li> <li>ix. Press submit</li> <li>x. Take note of the new container number</li> <li>xi. Go to home screen and search with the new container number</li> <li>xii. Click on container number in the search results table</li> </ul> </li> <li>b. Output                     <ul style="list-style-type: none"> <li>i. The created container can be searched and viewed</li> <li>ii. Title is “test new container”</li> <li>iii. Notes is “test new container notes”</li> </ul> </li> </ol> </li> </ol> |
|  | <p>Update container(s)</p> <ol style="list-style-type: none"> <li>1. Successfully update container             <ol style="list-style-type: none"> <li>a. Input                     <ul style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Input “?userId = 500” at the end of url</li> <li>iii. Enter ‘345’ into the search bar and press enter</li> <li>iv. Select two records with the same location and schedule</li> <li>v. Click ‘Contain Records’ in the navigation bar</li> <li>vi. Enter title ‘test new container’</li> <li>vii. Choose location that is the same as the selected records</li> <li>viii. Enter notes “test new container notes”</li> <li>ix. Press submit</li> </ul> </li> </ol> </li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|  | <ul style="list-style-type: none"> <li>x. Assert that you are on the view containers page</li> <li>xi. Click on the “Edit Container”</li> <li>xii. Assertions:           <ul style="list-style-type: none"> <li>1. Redirect to URL that ends with ‘/updateContainer’</li> <li>2. Page title is the container number</li> <li>3. There are title, location, state, and notes fields</li> <li>4. There are cancel and submit buttons</li> <li>5. The table contains selected records from results page</li> </ul> </li> <li>xiii. Change the title to “new title”</li> <li>xiv. Change location to another location</li> <li>xv. Change state to “Archived - Interim”</li> <li>xvi. Change notes to “new note”</li> <li>xvii. Click “Submit”</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. URL that ends with /viewContainer/&lt;container id&gt;</li> <li>ii. Container title is “new title”</li> <li>iii. Containing records have a new location</li> <li>iv. Containing records’ state is “Archived - Interim”</li> <li>v. Container notes is “new note”</li> </ul> <p>2. Update container with invalid values</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Input “?userId = 500” at the end of url</li> <li>iii. Enter ‘345’ into the search bar and press enter</li> <li>iv. Select two records with the same location and schedule</li> <li>v. Click ‘Contain Records’ in the navigation bar</li> <li>vi. Enter title ‘test new container’</li> <li>vii. Choose location that is the same as the selected records</li> <li>viii. Enter notes “test new container notes”</li> <li>ix. Press submit</li> <li>x. Assert that you are on the view containers page</li> <li>xi. Click on the “Edit Container”</li> <li>xii. Change the title to “new title”</li> <li>xiii. Change location to another location</li> <li>xiv. Change state to “Active”</li> <li>xv. Change notes to “new note”</li> <li>xvi. Click “Submit”</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. A validation error on state form field indicates that the selected state is invalid</li> </ul> |
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|  | <p><b>Delete container(s)</b></p> <ol style="list-style-type: none"> <li>1. Successfully delete container             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Input "?userId = 500" at the end of url</li> <li>iii. Enter '345' into the search bar and press enter</li> <li>iv. Select two records with the same location and schedule</li> <li>v. Click 'Contain Records' in the navigation bar</li> <li>vi. Enter title 'test new container'</li> <li>vii. Choose location that is the same as the selected records</li> <li>viii. Enter notes "test new container notes"</li> <li>ix. Press submit</li> <li>x. Assert that you are on the view containers page</li> <li>xi. Click on AE logo to go to the home page</li> <li>xii. Search for container using the container number</li> <li>xiii. Assert that a single result shows up</li> <li>xiv. Click on container number in the search result entry</li> <li>xv. Assert that you are on the view containers page</li> <li>xvi. Click on "Delete Container"</li> <li>xvii. Assert that a popup appears asking to confirm deletion of &lt;container number&gt;</li> <li>xviii. Click on "Confirm Delete"</li> <li>xix. Click on AE logo to go to the home page</li> <li>xx. Search for deleted container using the container number</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. No search results show up</li> </ol> </li> </ol> </li> </ol> <p><b>Search for records/containers</b></p> <ol style="list-style-type: none"> <li>1. Search for invalid             <ol style="list-style-type: none"> <li>a. Input:                     <ol style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Search "fdshflbdflblbsfa"</li> </ol> </li> <li>b. Output:                     <ol style="list-style-type: none"> <li>i. No search results show up, empty table</li> </ol> </li> </ol> </li> <li>2. Search for valid             <ol style="list-style-type: none"> <li>a. Input:                     <ol style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Search "5555"</li> </ol> </li> <li>b. Output:                     <ol style="list-style-type: none"> <li>i. Displays all results containing 5555 in their number</li> </ol> </li> </ol> </li> </ol> |
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|  | <p>3. Select filter</p> <p>a. Show all</p> <p>i. Input:</p> <ol style="list-style-type: none"> <li>1. Go to home page</li> <li>2. Search “5555”</li> <li>3. Make sure the selected Filter is “None”, if not, select it</li> </ol> <p>ii. Output:</p> <ol style="list-style-type: none"> <li>1. Displays all records and containers with 5555 in their number</li> </ol> <p>b. Filter by Records</p> <p>i. Input</p> <ol style="list-style-type: none"> <li>1. Search “5555”</li> <li>2. Select the filter “Records”</li> </ol> <p>ii. Output</p> <ol style="list-style-type: none"> <li>1. Displays only the record results</li> </ol> <p>b. Filter by Containers</p> <p>i. Input</p> <ol style="list-style-type: none"> <li>1. Search “345”</li> <li>2. Select the filter “Containers”</li> </ol> <p>ii. Output</p> <ol style="list-style-type: none"> <li>1. Displays only the container results</li> </ol> |
|  | <h3>User Authentication</h3> <p>1. Successful user login</p> <p>a. Input</p> <p>i. Input “?userId = 500” at the end of url</p> <p>b. Output</p> <p>i. First name, last name, and location of user will appear on the top right hand side of the banner</p> <p>2. Unsuccessful login with improper input</p> <p>a. Input</p> <p>i. Input “?userId = 500000000” at the end of url</p> <p>b. Output</p> <p>i. Red banner will appear displaying message “Please enter an existing userId”</p> <p>3. User persistence</p> <p>a. Input</p> <p>i. Input “?userId = 500” at the end of url</p> <p>ii. Click new record</p> <p>b. Output</p> <p>i. “?userId= 500” is persisted in the url</p>                                                                                                                                                                                                                         |

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|  | <p><b>Permissions</b></p> <ol style="list-style-type: none"> <li>1. Deny access to new record as general user             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "?userId = &lt;number&gt;" of general user (eg. 1)</li> <li>ii. Observe that new record is not available for selection on the banner</li> <li>iii. Input "/createRecord" at the end of the URL</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Red banner on top with message "General users do not have access to create new records."</li> </ol> </li> </ol> </li> <li>2. Deny access to updaterecord as general user             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "?userId = &lt;number&gt;" of general user (eg. 1)</li> <li>ii. Observe that new record is not available for selection on the banner</li> <li>iii. Input "/updateRecord/20" at the end of the URL</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Red banner on top with message "General users do not have access to update record."</li> </ol> </li> </ol> </li> <li>3. No access to edit and delete button             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Input "?userId = &lt;number&gt;" of general user (eg. 1)</li> <li>ii. Input a valid record number into the search bar (eg. 2000)</li> <li>iii. Select a result in the search table</li> </ol> </li> <li>b. Output                     <ol style="list-style-type: none"> <li>i. Edit and Delete buttons are hidden in the page</li> </ol> </li> </ol> </li> </ol> <p><b>Add record to existing container</b></p> <ol style="list-style-type: none"> <li>1. Successfully add a record to an existing container             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Input "?userId = 500" at the end of url</li> <li>iii. Click on "New Record" in the navigation bar</li> <li>iv. Select "subject" as record type</li> <li>v. Select "Edmonton" as location</li> <li>vi. Type "EDM-2018" for record number</li> <li>vii. Type "New Record" for title</li> <li>viii. Select "COMPLIANCE" as classification</li> <li>ix. Select "INFORMATION MANAGEMENT - ACQUISITION" as retention schedule</li> <li>x. Click Submit and note the record number (currently on the view record screen)</li> </ol> </li> </ol> </li> </ol> |
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|  | <p>xi. Click on “Search” in the navigation bar</p> <p>xii. Search for the record number</p> <p>xiii. Assert that a single record is in the results table</p> <p>xiv. Select the checkbox beside the record in the results table</p> <p>xv. Click “Contain Records” in navigation bar</p> <p>xvi. Type “New container” as title</p> <p>xvii. Select “Edmonton” as location</p> <p>xviii. Click Submit and note the container number (currently on the view container screen)</p> <p>xix. Click on “New Record” in the navigation bar</p> <p>xx. Select “subject” as record type</p> <p>xxi. Select “Edmonton” as location</p> <p>xxii. Type “EDM-2018” for record number</p> <p>xxiii. Type “New record to add” for title</p> <p>xxiv. Select “COMPLIANCE” as classification</p> <p>xxv. Select “INFORMATION MANAGEMENT - ACQUISITION” as retention schedule</p> <p>xxvi. Click Submit and note the record number (currently on the view record screen)</p> <p>xxvii. Click “Search” in the navigation bar</p> <p>xxviii. Search for the container “New container” by its container number</p> <p>xxix. Select the checkbox beside the container in the results table</p> <p>xxx. Click “Add to Tray”</p> <p>xxxi. Search for the record “New record to add” by its record number</p> <p>xxxii. Select the checkbox beside the record in the results table</p> <p>xxxiii. Click “Add to Tray”</p> <p>xxxiv. Click on “Work Tray” in the navigation bar</p> <p>xxxv. Select both the record and containers</p> <p>xxxvi. Click on “Container Records” in the navigation ar</p> <p>xxxvii. Click “Add” in the popup</p> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Redirected to URL that ends with ‘/viewContainer/&lt;container id&gt;</li> <li>ii. The records “New Record” and “New record to add” is in the “Contained Records” table</li> </ul> |
|  | <p>Remove record from existing container</p> <ol style="list-style-type: none"> <li>1. Successfully add a record to an existing container <ul style="list-style-type: none"> <li>a. Input <ul style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Input “?userId = 500” at the end of url</li> <li>iii. Click on “New Record” in the navigation bar</li> </ul> </li> </ul> </li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|  | <ul style="list-style-type: none"> <li>iv. Select “subject” as record type</li> <li>v. Select “Edmonton” as location</li> <li>vi. Type “EDM-2018” for record number</li> <li>vii. Type “New Record” for title</li> <li>viii. Select “COMPLIANCE” as classification</li> <li>ix. Select “INFORMATION MANAGEMENT - ACQUISITION” as retention schedule</li> <li>x. Click Submit and note the record number (currently on the view record screen)</li> <li>xi. Click on “Search” in the navigation bar</li> <li>xii. Search for the record number</li> <li>xiii. Assert that a single record is in the results table</li> <li>xiv. Select the checkbox beside the record in the results table</li> <li>xv. Click “Contain Records” in navigation bar</li> <li>xvi. Type “New container” as title</li> <li>xvii. Select “Edmonton” as location</li> <li>xviii. Click Submit and note the container number (currently on the view container screen)</li> <li>xix. Assert that the view containers screen is displayed</li> <li>xx. Click on the record number of the record “New Record” in the “Contained Records” table</li> <li>xxi. Click on the “Edit Record” button</li> <li>xxii. Delete the container number in the “Container Number” field</li> <li>xxiii. Click Submit</li> <li>xxiv. Assert that there is no container number on the records details screen</li> <li>xxv. Click on “Search” in the navigation bar</li> <li>xxvi. Search for container number of “New Container”</li> <li>xxvii. Click on container number in the search result</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Redirected to URL that ends with ‘/viewContainer/&lt;container id&gt;</li> <li>ii. The “Contained Records” table is empty</li> </ul> |
|  | <p>Manage records/containers across searches with work tray</p> <ol style="list-style-type: none"> <li>1. Adding items from different searches             <ol style="list-style-type: none"> <li>a. Input                     <ol style="list-style-type: none"> <li>i. Go to home page</li> <li>ii. Search for “5555”</li> <li>iii. Select all and click Add to Tray</li> <li>iv. Search for “4445”</li> <li>v. Select all and click Add to Tray</li> <li>vi. Click on Work Tray in the banner</li> </ol> </li> </ol> </li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|  | <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Redirects to '/worktray'</li> <li>ii. Displays all the added records/containers in table.</li> </ul> <p>2. Going from any page to tray, or changing pages and back</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Search and add items to the work tray</li> <li>ii. Click on Work Tray in the banner</li> <li>iii. Click on Search in the banner</li> <li>iv. Click on New Record in the banner</li> <li>v. Go back to work tray</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Shows the same data, data should persist</li> </ul> <p>3. Removing from Work Tray</p> <p>a. Input</p> <ul style="list-style-type: none"> <li>i. Search and add items to the work tray</li> <li>ii. Go to work tray</li> <li>iii. Click on any red button on right most column</li> <li>iv. Click on "Clear All" button</li> </ul> <p>b. Output</p> <ul style="list-style-type: none"> <li>i. Red buttons removes a row of item from work tray</li> <li>ii. Clear All button empties the work tray</li> </ul> |
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## Apply security testing and Test Data approach

We are operating under the assumption that userId will be integrated into AE's existing authentication system. As a result, we do not have to worry about user login credentials and protecting sensitive user data. The application does, however, has to account for a user's role and location. This requires modifying the test data provided by the industry sponsor.

## User authentication and access to certain pages

- Test Details:
  - We need to assess the permissions of certain roles into certain components
  - Assess that general users have access to search in location
  - Assess that RMC users have access to search, CRUD in their location
  - Assess that admin users have access to search, CRUD in their location
  - Any invalid permissions should be redirected to home page with indication
- Size and approach used to create test data:
  - User information was provided but not assigned roles
  - Roles of each user were assigned by the developers
  - Assign roles of general user, RMC, and Admin in equal distribution

## Restricted location

- Test Details:
  - Users of certain locations will have only access to records/containers/volumes within that location
  - Records/volumes/containers within restricted locations should only appear for users within that certain location
  - Assess that a user within a restricted location is able to access a record/container/volume in a restricted location
- Size and approach used to create test data:
  - Assign restricted column to existing location data in database with flags for T/F
  - Only assign a few T restrictions to particular restrictions and set the rest to false

## Regression testing needs

| Included in Regression Pack              | Why?                                                                                                                                           |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| CRUD Records/Volume/Containers           | Record management is the core functionality of the application and has to work                                                                 |
| Authorization (general user, RMC, admin) | Given the size of the company and different roles of each user, it is important to make sure that the right users have the right authorization |
| Search                                   | Need to assess that search is working correctly and is a good reflection of the database with proper restrictions for navigation               |
| APIs (create, and read)                  | Assess that end points are working correctly for possibility of additional functionality                                                       |
| Audit log                                | History for bug tracking                                                                                                                       |

## Appendix

### populateUserRoles.sql

```
User Id <= 479 -> Admin
User Id > 479 -> RMC

use recordr;

INSERT INTO userroles (UserId, RoleId)
(SELECT users.Id,1
FROM users
WHERE users.Id <= 479);

INSERT INTO userroles (UserId, RoleId)
(SELECT users.Id,2
FROM users
WHERE users.Id > 479)
```

### populateUserLocations.sql

```
User Id > 479 -> 5 (edmonton)
User 200 <Id <= 479 -> 8 (Burnaby)
User Id <= 200 -> 51 (Toronto)

use recordr;

INSERT INTO userlocations (UserId, LocationId)
(SELECT users.Id,5
FROM users
WHERE users.Id > 479);

INSERT INTO userlocations (UserId, LocationId)
(SELECT users.Id,8
FROM users
WHERE users.Id <= 479 AND users.Id > 200);

INSERT INTO userlocations (UserId, LocationId)
(SELECT users.Id,51
FROM users
WHERE users.Id <= 200);

INSERT INTO userlocations(UserId, LocationId)
VALUES (500, 8)
```

\*RecordR-Schema.sql and RecordR-Data.sql are used as provided by sponsors