Comprehensive Testing Plan

This was an apex test plan I created to ensure scalable, robust and correct functionality. This test class contains multiple test methods to cover the main functionality + any edge case scenarios.

Here is an overview of each test method (scenario-based)

testInsertNewTextPost():

Create an RGC_Data_Assets__c record.

Insert a 'TextPost' FeedItem associated with this record.

Assert that the Latest_Chatter_Post__c field on the RGC_Data_Assets__c record is updated with the 'TextPost' body.

testUpdateExistingTextPost():

Create an RGC_Data_Assets__c record and a 'TextPost' FeedItem associated with it.

Update the 'TextPost' FeedItem body.

Assert that the Latest_Chatter_Post__c field on the RGC_Data_Assets__c record is updated with the new 'TextPost' body.

testDeleteTextPostWithExistingPosts():

Create an RGC_Data_Assets__c record and two 'TextPost' FeedItems associated with it.

Delete the latest 'TextPost' FeedItem.

Assert that the Latest_Chatter_Post__c field on the RGC_Data_Assets__c record is updated to the body of the older 'TextPost'.

testDeleteLastTextPost():

Create an RGC_Data_Assets__c record and a single 'TextPost' FeedItem associated with it.

Delete the 'TextPost' FeedItem.

Assert that the Latest_Chatter_Post__c field on the RGC_Data_Assets__c record is set to null.

testDeleteTextPostInitiallyNull():

Create an RGC_Data_Assets__c record with Latest_Chatter_Post__c initially null.

Insert and then delete a 'TextPost' FeedItem associated with it.

Assert that the Latest_Chatter_Post__c field on the RGC_Data_Assets__c record remains null.

testBulkInsertUpdateDelete():

Create multiple RGC_Data_Assets__c records.

Bulk insert 'TextPost' FeedItems for these records.

Bulk update some of these 'TextPost' FeedItems.

Bulk delete some of these 'TextPost' FeedItems (including some last posts and some not last posts).

Assert that Latest_Chatter_Post__c fields on all affected RGC_Data_Assets__c records are updated correctly after all operations.

testNonTextPostFeedItem():

Create an RGC_Data_Assets__c record.

Insert a FeedItem of a different type (e.g., 'ContentPost') associated with this record + esnure this has LinkURL if the test is for ContextPost (easiest).

Assert that the Latest_Chatter_Post__c field on the RGC_Data_Assets__c record is not changed.

testFeedItemOnDifferentObject():

Create an Account record.

Insert a 'TextPost' FeedItem associated with this Account record.

Assert that the Latest_Chatter_Post__c field on any RGC_Data_Assets__c record is not changed.

testFeedItemNullParentId():

Insert a 'TextPost' FeedItem with ParentId = null.

Assert that no errors occur and no RGC_Data_Assets__c records are updated.