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Developers ⌄

UninstallHandler Interface ☰

Apex Reference Guide / **System Namespace** / OrgLimits Class

UninstallHandler Interface

Enables custom code to run after a managed package is uninstalled.

Namespace

System

Usage

App developers can implement this interface to specify Apex code that runs automatically after a subscriber uninstalls a managed package. This makes it possible to perform cleanup and notification tasks based on details of the subscriber's organization.

The uninstall script is subject to default governor limits. It runs as a special system user that represents your package, so all operations performed by the script will appear to be done by your package. You can access this user by using UserInfo. You will only see this user at runtime, not while running tests.

If the script fails, the uninstall continues but none of the changes performed by the script are committed. Any errors in the script are emailed to the user specified in the **Notify on Apex Error** field of the package. If no user is specified, the uninstall details will be unavailable.

The uninstall script has the following restrictions. You can't use it to initiate batch, scheduled, and future jobs, to access Session IDs, or to perform callouts.

The `UninstallHandler` interface has a single method called `onUninstall`, which specifies the actions to be performed on uninstall.

```
global interface UninstallHandler {
   void onUninstall(UninstallContext context)};
```

The `onUninstall` method takes a context object as its argument, which provides the following information.

- The org ID of the organization in which the uninstall takes place.
- The user ID of the user who initiated the uninstall.

The context argument is an object whose type is the `UninstallContext` interface. This interface is automatically implemented by the system. The following definition of the `UninstallContext` interface shows the methods you can call on the context argument.

```
global interface UninstallContext {
   ID organizationId();
   ID uninstallerId();
}
```

- **UninstallHandler Methods**
- **UninstallHandler Example Implementation**

Specifies the actions to be performed on uninstall.

onUninstall(context)

Specifies the actions to be performed on uninstall.

Signature

```
public Void onUninstall(UninstallContext context)
```

Parameters

context

Type: UninstallContext

Return Value

Type: Void

UninstallHandler Example Implementation

Example of an Uninstall Script

This sample uninstall script performs the following actions on package uninstall.

- Inserts an entry in the feed describing which user did the uninstall and in which organization
- Creates and sends an email message confirming the uninstall to that user

```apex
global class UninstallClass implements UninstallHandler {
    global void onUninstall(UninstallContext ctx) {
        FeedItem feedPost = new FeedItem();
        feedPost.parentId = ctx.uninstallerID();
        feedPost.body = 'Thank you for using our application!';
        insert feedPost;

        User u = [Select Id, Email from User where Id =:ctx.uninstallerID()];
        String toAddress= u.Email;
        String[] toAddresses = new String[] {toAddress};
        Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
        mail.setToAddresses(toAddresses);
        mail.setReplyTo('support@package.dev');
        mail.setSenderDisplayName('My Package Support');
        mail.setSubject('Package uninstall successful');
        mail.setPlainTextBody('Thanks for uninstalling the package.');
        Messaging.sendEmail(new Messaging.Email[] { mail });
    }
}
```

You can test an uninstall script using the `testUninstall` method of the `Test` class. This method takes as its argument a class that implements the `UninstallHandler` interface.

This sample shows how to test an uninstall script implemented in the `UninstallClass` Apex class.

```apex
@isTest
static void testUninstallScript() {
    Id UninstallerId = UserInfo.getUserId();
    List<FeedItem> feedPostsBefore =
        [SELECT Id FROM FeedItem WHERE parentId=:UninstallerId AND CreatedDate=TODAY];
    Test.testUninstall(new UninstallClass());
    List<FeedItem> feedPostsAfter =
```

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