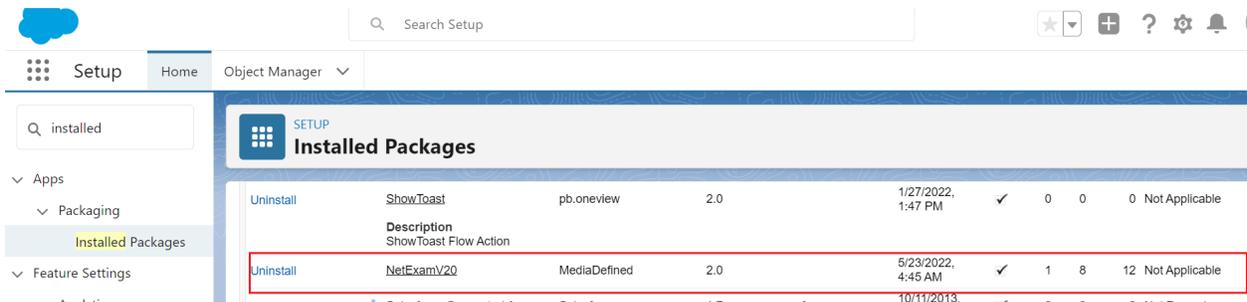# Upgrading SFDC API to latest version

Salesforce from time to time will retire old APIs. NetExam has an unmanaged Apex package that is used to integrate the Salesforce platform with NetExam. Depending on when the NetExam SFDC Apex package was installed, you may have to upgrade the components so that they are compliant with the latest API. To do this follow the following steps.

Update Apex classes

The NetExam Apex package installs several components that are used to store data and also used to send communication between SFDC and NetExam. Some of these components are Apex Classes. Apex classes are built to target specific API versions. We need to make sure that the Salesforce API version targeted by these Apex classes is the latest version. To do this

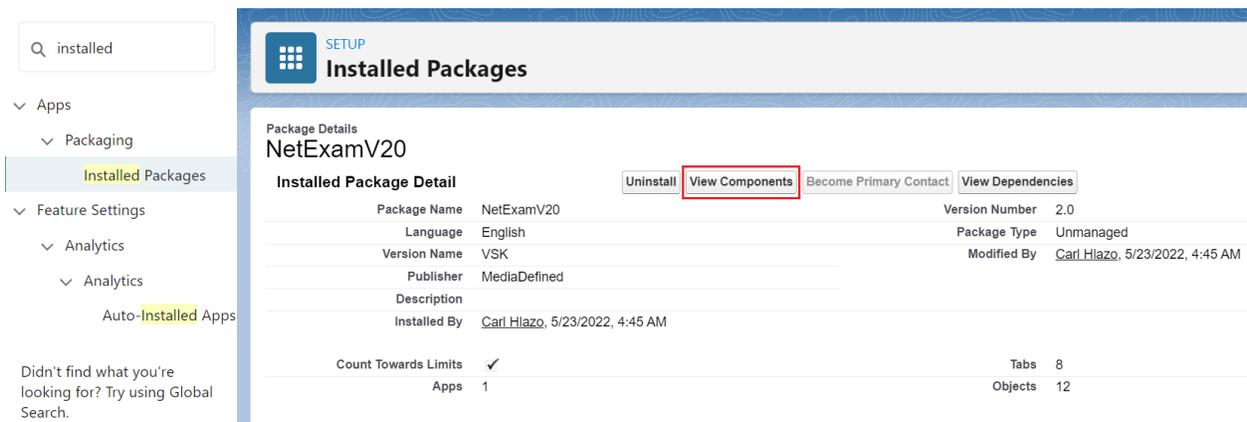1) Locate the NetExam Apex Package Components
Find the NetExam Apex package. You can find it in the Installed packages by doing a Quick Search in Salesforce for "Installed Packages"

This pulls up all the installed packages and in this list you should find the NetExam Apex package. Keep in mind that the name may differ in your environment depending on the version that was installed. Click on the link and this will take you to the details page for the package

In the details page, click the View Components button. This takes you to a screen that lists all the components installed by the package.

Metadata Components Included in Package

Action	Component Name	Parent Object	Type
	Certification Name	NE Certification	Custom Field
	SFDCID	NE Order Item	Custom Field
	Bill To Address	NE Orders	Custom Field
	Points	NE Certification	Custom Field
	Languages	Contact	Custom Field
	NE Orders	NE Order Item	Custom Field
	NetExam_UserType	Contact	Custom Field
	Promocode Discount	NE Order Item	Custom Field
	Item Type	NE Order Item	Custom Field
	Item	NE Order Item	Custom Field
	NE Course	Partner Course	Custom Field
	Currency	NE Order Item	Custom Field
	Item Name	NE Order Item	Custom Field
	Cost	NE Order Item	Custom Field

In this list all we need to look for is components that have a Type of Apex Class and Visualforce Page. Only Apex classes and Visualforce pages specify an API version. The rest of the components do not and therefore will not need to be updated.

NE Lesson Layout	NE Lesson	Page Layout	
Partner Lesson Layout	Partner Lesson	Page Layout	
TransactionResult		Apex Class	
NetexamLightningController		Apex Class	
NetexamLightningControllerTestClass		Apex Class	
NetExamStudentPortalController		Apex Class	
NetExamStudentPortalControllerTest		Apex Class	Only components of Type Apex Class will need to be updated
NetExamBusinessLogicHelper		Apex Class	
NetExamBusinessLogicHelperTest		Apex Class	
NetExamAPIProxy		Apex Class	
NetExamAPIProxyTest		Apex Class	
NEApexWebService		Apex Class	
Cancelled Date	NE Order Item	Custom Field	

Click on the name of each Apex class to expose the detail page. In the detail page you should see a tab labeled Version Settings. Click on the Version Settings tab

Apex Class
NetExamAPIProxy

Apex Class Detail

Name	NetExamAPIProxy
Namespace Prefix	
Created By	Carl Hlazo , 5/23/2022, 4:45 AM

Class Body | Class Summary | Version Settings | Trace Flags

```
1   //Generated by wsdl2apex
2   public class NetExamAPIProxy {
3       public UserServiceSoap GetUserServiceSoap(){
4           return new UserServiceSoap();
```

Once in the version settings, click the Edit button to get into Edit mode.

In Edit mode, make sure you click the Version Settings tab again then find the Salesforce.com API and the version drop down will allow you to pick the version you need to set for the Salesforce API. Pick the highest version.

Once set to the highest version you can then hit the Save button to persist the changes.

Repeat this process for all the Apex Classes.

Update the Learner Portal VisualForce page version
One of the tabs that is installed in the NetExam package is the tab that allows Single Sign On into the NetExam application. The is created as a VisualForce page that embeds the NetExam application within Salesforce. To initiate the SSO the page uses the Salesforce API. So we need to update the Salesforce API version in this VisualForce page as well. To do this access the list of installed components for the NetExam Apex package as outlined above and this time find the VisualForce page named NetexamV6Student_142 or something to that effect. Make sure the Type is Visualforce Page

Certification status	Partner Certification	Custom Field
Completion Date	Partner Certification	Custom Field
Contact	Partner Course	Custom Field
NetExam Course Status	Partner Course	Custom Field
NetexamV6Student_142		Visualforce Page
Partner Course Layout	Partner Course	Page Layout
Send_to_NetExam	Partner Course	Button or Link
Send_Course_To_Netexam	NE Course	Button or Link
NE Class Layout	NE Class	Page Layout

Click on the name to access the detail page. Similarly to updating Apex Classes, the VisualForce page has Version Settings. Follow the same steps outlined in the Apex Classes to update the version of the VisualForce page.

Update the Learner Portal VisualForce page code snippet
Within the markup of the VisualForce page there is a code snippet that references the Salesforce API. This needs to be updated to match the latest version. To update the code snippet, click on the Edit button to get into Edit mode on the VisualForce page

Visualforce Page
NetexamV6Student_142   Help for this Page ❓

Page Detail   Edit Delete Clone Where is this used? Show Dependencies Preview
                Label   Netexam V6 Student 142   Name   NetexamV6Student_142
    Namespace Prefix   Available for Lightning   ✓
                                              Experience, Experience Builder
                                               sites, and the mobile app
          Description
           Created By   Carl Hlazo, 5/23/2022, 4:45 AM   Last Modified By   Carl Hlazo, 5/23/2022, 4:58 AM

Visualforce Markup Version Settings

`<apex:page controller="NetExamStudentPortalController" sidebar="false" >`

`    <style>`
`        #main {`

In Edit mode, click the Visualforce Markup tab to access the page markup. The code snippet that we need to update is the serverUrl property of the sfdcInfo object located in one of the Script tags of the markup.

```
51          }
52      .x-viewport body {
53          margin: auto !important;
54          overflow: hidden !important;
55      }
56    </style>
57
58
59    <script>
60      var sfdcInfo = {
61          sessionId : '{!$Api.Session_ID}',
62          serverUrl : '{!$Api.Enterprise_Server_URL_540}',
63          proxyUrl  : '{!$CurrentPage.URL}'
64      };
65
66    </script>
67
68    <link rel="stylesheet" type="text/css" href="https://v6.netexam.com/ext/resources/css/ext-all.css?v=1" />
69    <link rel="stylesheet" type="text/css" id="theme" href="https://v6.netexam.com/ext/resources/css/xtheme-darkergrey.css" />
70  <link rel="stylesheet" type="text/css" href="https://v6.netexam.com/css/netexam.css?v={!version}" />
71    <!-- <link rel="stylesheet" type="text/css" href="https://v6.netexam.com/css/netexam_k.css" />-->
72
```

The serverUrl looks like this **!$Api.Enterprise_Server_URL_540**. In this example, no change is required as the serverUrl property is set to the highest API version (version 54). In some cases it may be set to an older version e.g version 9 like **!$Api.Enterprise_Server_URL_90**. If it is older, change the serverUrl to **!$Api.Enterprise_Server_URL_540** or whatever version is the latest in your environment. Make sure you only change the string and not remove the curly brackets or quotation marks.

Once updated, click the Save button to persist the changes

Visualforce Page
NetexamV6Student_142

Page Edit	Save Quick Save Cancel Where is this used? Component Reference Preview

Page Information

Label	Netexam V6 Student 142
Name	NetexamV6Student_142
Description	
Available for Lightning Experience, Experience Builder sites, and the mobile app	☑

| Visualforce Markup | Version Settings |

These changes should be all that's needed to update the NetExam components to the latest SFDC API version.