

‘PSU (Permission Set Uploader)’ User Guide



An  appexchange Product

By



6-3-788/A/20, Ground Floor,
Plot No.125, Durga Nagar Colony,
Ameerpet, Hyderabad,
Telangana, India.

500016

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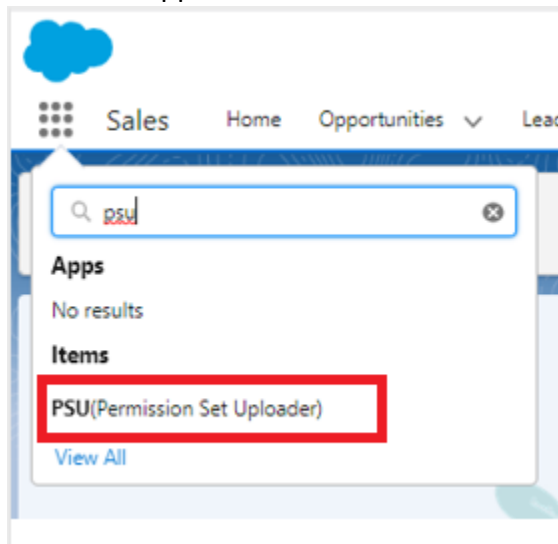
Overview

The purpose of this app is to support permission sets updates about Objects/Fields/Apex Class/VF Pages through file upload. Users will be able to view the data uploaded for Objects, Fields, Apex class and VF Page Permissions in different tabs, edit and validate the permissions from UI. After validation, users can upload the permission set data to the Org.

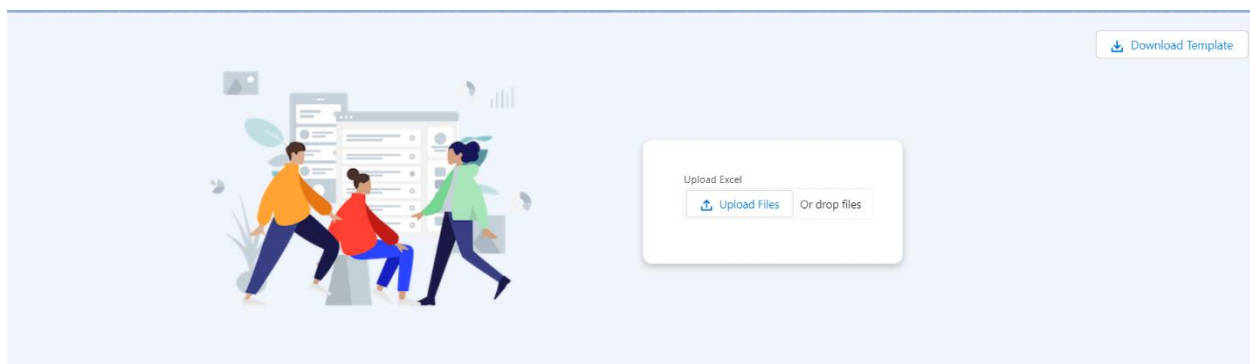
Users can also search the uploaded data by Permission Set Name, Object /Field/Apex Class/VF Page Names.

PSU App

1. Click App Launcher and search for the PSU app



2. PSU tab provides functionality to give the permissions to Objects/Fields/Apex class/VF Pages through file upload.



Users can download the Excel template to be used for this app using 'Download Template' button. This will download the Excel blank file with different tabs and Column structure to be used for each of the Objects/Fields/Apex Class/VF Page Permissions to be modified.

Object Permissions

1. **Object Permissions** tab of the app provides functionality to assign or remove permissions to objects on the permission sets.
2. After uploading the Excel template, the user can see a table with S.No, Permission set name, and object name along with Read, Create, Edit, Delete, ViewAll, and ModifyAll columns.

Object Permissions Field Permissions Apex Class Permissions Visual Force Page Permissions [Reset](#)

[All](#) [Valid \(9799\)](#) [Invalid \(200\)](#)

S.No	Permission Set	Object	☐ Read	☐ Create	☐ Edit	☐ Delete	☐ ViewAll	☐ ModifyAll	
1	ExcelTolson	Account	☒	☐	☐	☐	☐	☐	
2	ExcelTolson	Contact	☒	☒	☐	☐	☐	☐	
3	ExcelTolson	Asset	☒	☐	☒	☐	☐	☒	
4	ExcelTolson	Appointment__c	☒	☐	☒	☒	☐	☐	
5	ExcelTolson	ArticleComments__c	☒	☐	☒	☒	☒	☒	
6	ExcelTolson	Asset_Allocation__c	☒	☐	☐	☐	☒	☐	
7	ExcelTolson	Catalogue__c	☒	☒	☐	☐	☐	☐	
8	ExcelTolson	Asset_Master__c	☒	☒	☒	☐	☐	☐	
9	ExcelTolson	Associated_Components__c	☒	☐	☐	☐	☒	☐	
10	ExcelTolson	Candidate__c	☒	☒	☒	☒	☐	☐	
11	ExcelTolson	Doctor__c	☒	☐	☐	☐	☐	☐	
12	ExcelTolson	Education_History__c	☒	☒	☐	☐	☐	☐	
13	ExcelTolson	Employee_Allocation__c	☒	☐	☒	☐	☐	☒	
14	ExcelTolson	Employee_Attendance__c	☒	☐	☒	☒	☐	☐	
15	ExcelTolson	Hospital__c	☒	☐	☒	☒	☒	☒	

3. The application validates the permissions provided through Excel and splits the data uploaded into valid and invalid buckets along with count for each bucket.

4. All Button displays All permissions – both valid and invalid uploaded from Excel.

Object Permissions

Field Permissions

Apex Class Permissions

Visual Force Page Permissions

Reset

All

Valid (9799)

Invalid (200)

Q Search here...

S.No	Permission Set	Object	☐ Read	☐ Create	☐ Edit	☐ Delete	☐ ViewAll	☐ ModifyAll	
1	ExcelTolson	Account	☒	☐	☐	☐	☐	☐	
2	ExcelTolson	Contact	☒	☒	☐	☐	☐	☐	
3	ExcelTolson	Asset	☒	☐	☒	☐	☐	☒	
4	ExcelTolson	Appointment_c	☒	☐	☒	☒	☐	☐	
5	ExcelTolson	ArticleComments_c	☒	☐	☒	☒	☒	☒	
6	ExcelTolson	Asset_Allocation_c	☒	☐	☐	☐	☒	☐	
7	ExcelTolson	Catalogue_c	☒	☒	☐	☐	☐	☐	
8	ExcelTolson	Asset_Master_c	☒	☒	☒	☐	☐	☐	
9	ExcelTolson	Associated_Components_c	☒	☐	☐	☐	☒	☐	
10	ExcelTolson	Candidate_c	☒	☒	☒	☒	☐	☐	
11	ExcelTolson	Doctor_c	☒	☐	☐	☐	☐	☐	
12	ExcelTolson	Education_History_c	☒	☒	☐	☐	☐	☐	
13	ExcelTolson	Employee_Allocation_c	☒	☐	☒	☐	☐	☒	
14	ExcelTolson	Employee_Attendance_c	☒	☐	☒	☒	☐	☐	
15	ExcelTolson	Hospital_c	☒	☐	☒	☒	☒	☒	

5. The valid Button indicates only valid permissions from excel.

Object Permissions

Field Permissions

Apex Class Permissions

Visual Force Page Permissions

Reset

All

Valid (9799)

Invalid (200)

Q Search here...

S.No	Permission Set	Object	☐ Read	☐ Create	☐ Edit	☐ Delete	☐ ViewAll	☐ ModifyAll	
1	ExcelTolson	Account	☒	☐	☐	☐	☐	☐	
2	ExcelTolson	Contact	☒	☒	☐	☐	☐	☐	
4	ExcelTolson	Appointment_c	☒	☐	☒	☒	☐	☐	
5	ExcelTolson	ArticleComments_c	☒	☐	☒	☒	☒	☒	
6	ExcelTolson	Asset_Allocation_c	☒	☐	☐	☐	☒	☐	
7	ExcelTolson	Catalogue_c	☒	☒	☐	☐	☐	☐	
8	ExcelTolson	Asset_Master_c	☒	☒	☒	☐	☐	☐	
9	ExcelTolson	Associated_Components_c	☒	☐	☐	☐	☒	☐	
10	ExcelTolson	Candidate_c	☒	☒	☒	☒	☐	☐	
11	ExcelTolson	Doctor_c	☒	☐	☐	☐	☐	☐	
12	ExcelTolson	Education_History_c	☒	☒	☐	☐	☐	☐	
14	ExcelTolson	Employee_Attendance_c	☒	☐	☒	☒	☐	☐	
15	ExcelTolson	Hospital_c	☒	☐	☒	☒	☒	☒	
16	ExcelTolson	Hospital_Management_c	☒	☐	☐	☐	☒	☐	
17	ExcelTolson	Invoice_c	☒	☒	☐	☐	☐	☐	

6. Invalid Button indicates Invalid permissions from excel. All the invalid permissions are highlighted in red color.

7. Users can click on the invalid* button to view all invalid permissions.

Object Permissions

Field Permissions

Apex Class Permissions

Visual Force Page Permissions

Reset

All

Valid (9799)

Invalid (200)

Q Search here...

Delete All

S.No	Permission Set	Object	☐ Read	☐ Create	☐ Edit	☐ Delete	☐ ViewAll	☐ ModifyAll	
3	ExcelToJson	Asset	☒	☐	☒	☐	☐	☒	
13	ExcelToJson	Employee_Allocation__c	☒	☐	☒	☐	☐	☒	
23	ExcelToJson	Request__c	☒	☐	☒	☐	☐	☒	
33	ExcelToJson	PSOBJECT8__c	☒	☐	☒	☐	☐	☒	
43	ExcelToJson	PSOBJECT18__c	☒	☐	☒	☐	☐	☒	
53	ExcelToJson	PSOBJECT28__c	☒	☐	☒	☐	☐	☒	
63	ExcelToJson	PSOBJECT38__c	☒	☐	☒	☐	☐	☒	
73	ExcelToJson	PSOBJECT48__c	☒	☐	☒	☐	☐	☒	
83	ExcelToJson	PSOBJECT58__c	☒	☐	☒	☐	☐	☒	
93	ExcelToJson	PSOBJECT68__c	☒	☐	☒	☐	☐	☒	
103	PS_V1	Asset	☒	☐	☒	☐	☐	☒	
113	PS_V1	Employee_Allocation__c	☒	☐	☒	☐	☐	☒	
123	PS_V1	Request__c	☒	☐	☒	☐	☐	☒	
133	PS_V1	PSOBJECT8__c	☒	☐	☒	☐	☐	☒	
143	PS_V1	PSOBJECT18__c	☒	☐	☒	☐	☐	☒	

8. On clicking on invalid, there is an option to Delete All invalid permissions using Delete All button.

9. Individual invalid entries can also be deleted by using the delete icon on each row.

10. Users can delete all invalid permissions using the delete all button or individual record deletion or can edit individual permissions to make them valid. As and when the record is updated to make it valid, system will move them to valid bucket automatically.

11. Users will be able to search for permissions or objects using the search bar.

Object Permissions

Field Permissions

Apex Class Permissions

Visual Force Page Permissions

Reset

AllValid (100)Invalid (0)

Q, App

S.No	Permission Set	Object	☐ Read	☐ Create	☐ Edit	☐ Delete	☐ ViewAll	☐ ModifyAll	
4	ExcelTolson	Appointment_c	☒	☐	☒	☒	☐	☐	
104	PS_V1	Appointment_c	☒	☐	☒	☒	☐	☐	
204	PS_V2	Appointment_c	☒	☐	☒	☒	☐	☐	
304	PS_V3	Appointment_c	☒	☐	☒	☒	☐	☐	
404	PS_V4	Appointment_c	☒	☐	☒	☒	☐	☐	
504	PS_V5	Appointment_c	☒	☐	☒	☒	☐	☐	
604	PS_V6	Appointment_c	☒	☐	☒	☒	☐	☐	
704	PS_V7	Appointment_c	☒	☐	☒	☒	☐	☐	
804	PS_V8	Appointment_c	☒	☐	☒	☒	☐	☐	
904	PS_V9	Appointment_c	☒	☐	☒	☒	☐	☐	
1004	PS_V10	Appointment_c	☒	☐	☒	☒	☐	☐	
1104	PS_V11	Appointment_c	☒	☐	☒	☒	☐	☐	
1204	PS_V12	Appointment_c	☒	☐	☒	☒	☐	☐	
1304	PS_V13	Appointment_c	☒	☐	☒	☒	☐	☐	
1404	PS_V14	Appointment_c	☒	☐	☒	☒	☐	☐	

12. Users can update all records in one go by using the Select All options available on headers of each column. **Please note, the Select All buttons on column headers will update only records that are currently in the view.** Scrolling up/down in the list of records shown, will reset the Select All buttons.

13. While viewing the records in valid bucket in case users modify the data using Select all buttons on the headers, user needs to click on Validate button to validate the permissions. **Please note that Validate button will validate only those records which are currently in view.**

Object Permissions Field Permissions Apex Class Permissions Visual Force Page Permissions [Reset](#)

All Valid (9799) Invalid (200)

S.No	Permission Set	Object	☒ Read	☐ Create	☒ Edit	☒ Delete	☐ ViewAll	☐ ModifyAll	
1	ExcelTolson	Account	☒	☐	☒	☒	☐	☐	
2	ExcelTolson	Contact	☒	☒	☒	☒	☐	☐	
4	ExcelTolson	Appointment__c	☒	☐	☒	☒	☐	☐	
5	ExcelTolson	ArticleComments__c	☒	☐	☒	☒	☒	☒	
6	ExcelTolson	Asset_Allocation__c	☒	☐	☒	☒	☒	☐	
7	ExcelTolson	Catalogue__c	☒	☒	☒	☒	☐	☐	
8	ExcelTolson	Asset_Master__c	☒	☒	☒	☒	☐	☐	
9	ExcelTolson	Associated_Components__c	☒	☐	☒	☒	☒	☐	
10	ExcelTolson	Candidate__c	☒	☒	☒	☒	☐	☐	
11	ExcelTolson	Doctor__c	☒	☐	☒	☒	☐	☐	
12	ExcelTolson	Education_History__c	☒	☒	☒	☒	☐	☐	
14	ExcelTolson	Employee_Attendance__c	☒	☐	☒	☒	☐	☐	
15	ExcelTolson	Hospital__c	☒	☐	☒	☒	☒	☒	
16	ExcelTolson	Hospital_Management__c	☒	☐	☒	☒	☒	☐	
17	ExcelTolson	Invoice__c	☒	☒	☒	☒	☐	☐	

14. After deleting or Modifying all Invalid permissions, when the invalid count becomes 0, the Import button is made available on the Screen to upload permissions to the org.

Object Permissions Field Permissions Apex Class Permissions Visual Force Page Permissions [Reset](#)

All Valid (9799) Invalid (0)

S.No	Permission Set	Object	☐ Read	☐ Create	☒ Edit	☒ Delete	☐ ViewAll	☐ ModifyAll
------	----------------	--------	-------------------------------	---------------------------------	--	--	----------------------------------	------------------------------------


No Data Found

15. User will have to review the data in each tab and use **Import** button available in respective tab to upload the data to Org.
16. System will show a progress bar to indicate progress of data upload, while the process in progress.

Object Permissions

Field Permissions

Apex Class Permissions

Visual Force Page Permissions

Reset

23%

Import

S.No	Permission Set	Object	☐ Read	☐ Create	☒ Edit	☒ Delete	☐ ViewAll	☐ ModifyAll
2	ExcelTolson	Contact	☒	☒	☐	☐	☐	☐
4	ExcelTolson	Appointment__c	☒	☐	☒	☒	☐	☐
5	ExcelTolson	ArticleComments__c	☒	☐	☒	☒	☒	☒
6	ExcelTolson	Asset_Allocation__c	☒	☐	☐	☐	☒	☐
7	ExcelTolson	Catalogue__c	☒	☒	☐	☐	☐	☐
8	ExcelTolson	Asset_Master__c	☒	☒	☒	☐	☐	☐
9	ExcelTolson	Associated_Components__c	☒	☐	☐	☐	☒	☐
10	ExcelTolson	Candidate__c	☒	☒	☒	☒	☐	☐
11	ExcelTolson	Doctor__c	☒	☐	☐	☐	☐	☐
12	ExcelTolson	Education_History__c	☒	☒	☐	☐	☐	☐
14	ExcelTolson	Employee_Attendance__c	☒	☐	☒	☒	☐	☐
15	ExcelTolson	Hospital__c	☒	☐	☒	☒	☒	☒
16	ExcelTolson	Hospital_Management__c	☒	☐	☐	☐	☒	☐
17	ExcelTolson	Invoice__c	☒	☒	☐	☐	☐	☐
18	ExcelTolson	Invoice_Line_Items__c	☒	☒	☒	☐	☐	☐

17. After successful upload application will display success and error records in the form of buttons.

Object Permissions

Field Permissions

Apex Class Permissions

Visual Force Page Permissions

Reset

Success (8288)

Error (195)

Search here...

Download

S.No	Permission Set	Object	☐ Read	☐ Create	☐ Edit	☐ Delete	☐ ViewAll	☐ ModifyAll
2	ExcelTolson	Contact	☒	☐	☒	☒	☒	☒
4	ExcelTolson	Appointment__c	☒	☐	☐	☐	☐	☐
6	ExcelTolson	Asset_Allocation__c	☒	☐	☐	☐	☒	☐
7	ExcelTolson	Catalogue__c	☒	☐	☒	☐	☐	☐
8	ExcelTolson	Asset_Master__c	☒	☐	☒	☒	☒	☒
10	ExcelTolson	Candidate__c	☒	☐	☐	☐	☒	☐
12	ExcelTolson	Education_History__c	☒	☐	☒	☐	☐	☐
14	ExcelTolson	Employee_Attendance__c	☒	☐	☒	☒	☒	☒
15	ExcelTolson	Hospital__c	☒	☐	☐	☐	☒	☐
17	ExcelTolson	Invoice__c	☒	☐	☒	☐	☐	☐
18	ExcelTolson	Invoice_Line_Items__c	☒	☐	☒	☒	☒	☒
19	ExcelTolson	KnowledgeArticle__c	☒	☐	☐	☐	☒	☐
21	ExcelTolson	Question__c	☒	☐	☒	☐	☐	☐
22	ExcelTolson	Receipt__c	☒	☐	☒	☐	☐	☐
23	ExcelTolson	Request__c	☒	☐	☒	☐	☐	☐

18. There is a Download button available to download success and error records in the form of Excel.

Object Permissions Field Permissions Apex Class Permissions Visual Force Page Permissions [Reset](#)

Success (8288) Error (195)

[Download](#) ⓘ

S.No	Permission Set	Object	☐ Read	☐ Create	☐ Edit	☐ Delete	☐ ViewAll	☐ ModifyAll
2	ExcelToJson	Contact	☒	☐	☒	☒	☒	☒
4	ExcelToJson	Appointment__c	☒	☐	☐	☐	☐	☐
6	ExcelToJson	Asset_Allocation__c	☒	☐	☐	☐	☒	☐
7	ExcelToJson	Catalogue__c	☒	☐	☒	☐	☐	☐
8	ExcelToJson	Asset_Master__c	☒	☐	☒	☒	☒	☒
10	ExcelToJson	Candidate__c	☒	☐	☐	☐	☒	☐
12	ExcelToJson	Education_History__c	☒	☐	☒	☐	☐	☐
14	ExcelToJson	Employee_Attendance__c	☒	☐	☒	☒	☒	☒
15	ExcelToJson	Hospital__c	☒	☐	☐	☐	☒	☐
17	ExcelToJson	Invoice__c	☒	☐	☒	☐	☐	☐
18	ExcelToJson	Invoice_Line_Items__c	☒	☐	☒	☒	☒	☒
19	ExcelToJson	KnowledgeArticle__c	☒	☐	☐	☐	☒	☐
21	ExcelToJson	Question__c	☒	☐	☒	☐	☐	☐
22	ExcelToJson	Receipt__c	☒	☐	☒	☐	☐	☐
23	ExcelToJson	Request__c	☒	☐	☒	☐	☐	☐

19. There is a Reset button which will help users to reset the application which will clear the data in UI.

Object Permissions Field Permissions Apex Class Permissions Visual Force Page Permissions [Reset](#)

Success (8288) Error (195)

[Download](#) ⓘ

S.No	Permission Set	Object	☐ Read	☐ Create	☐ Edit	☐ Delete	☐ ViewAll	☐ ModifyAll
2	ExcelToJson	Contact	☒	☐	☒	☒	☒	☒
4	ExcelToJson	Appointment__c	☒	☐	☐	☐	☐	☐
6	ExcelToJson	Asset_Allocation__c	☒	☐	☐	☐	☒	☐
7	ExcelToJson	Catalogue__c	☒	☐	☒	☐	☐	☐
8	ExcelToJson	Asset_Master__c	☒	☐	☒	☒	☒	☒
10	ExcelToJson	Candidate__c	☒	☐	☐	☐	☒	☐
12	ExcelToJson	Education_History__c	☒	☐	☒	☐	☐	☐
14	ExcelToJson	Employee_Attendance__c	☒	☐	☒	☒	☒	☒
15	ExcelToJson	Hospital__c	☒	☐	☐	☐	☒	☐
17	ExcelToJson	Invoice__c	☒	☐	☒	☐	☐	☐
18	ExcelToJson	Invoice_Line_Items__c	☒	☐	☒	☒	☒	☒
19	ExcelToJson	KnowledgeArticle__c	☒	☐	☐	☐	☒	☐
21	ExcelToJson	Question__c	☒	☐	☒	☐	☐	☐
22	ExcelToJson	Receipt__c	☒	☐	☒	☐	☐	☐
23	ExcelToJson	Request__c	☒	☐	☒	☐	☐	☐

Field Permissions

1. **Field Permissions** tab of the app provides functionality to assign or remove permissions to fields on the permission sets.
2. After uploading the Excel template, the user can see a table with S. No, Permission set name, and object name along with Read and Edit columns.

Object Permissions
Field Permissions
Apex Class Permissions
Visual Force Page Permissions
Reset

All
Valid (9799)
Invalid (199)
Search here...

S No	Permission Set	Object	Field	Read	Edit	
3	ExcelToJson	Account	AnnualRevenue	☒	☐	🗑
4	ExcelToJson	Account	BillingAddress	☒	☐	🗑
5	ExcelToJson	Account	NumberOfEmployees	☒	☐	🗑
6	ExcelToJson	Account	Industry	☒	☒	🗑
7	ExcelToJson	Account	Ownership	☒	☒	🗑
8	ExcelToJson	Account	Phone	☒	☒	🗑
9	ExcelToJson	Account	Rating	☒	☒	🗑
10	ExcelToJson	Account	Site	☒	☐	🗑
11	ExcelToJson	Account	Description	☒	☒	🗑
12	ExcelToJson	Account	Fax	☒	☒	🗑
13	ExcelToJson	Account	ParentId	☒	☒	🗑
14	ExcelToJson	Account	ShippingAddress	☒	☒	🗑

3. The application validates the permissions provided through Excel and splits the data uploaded into valid and invalid buckets along with count for each bucket.
4. All Button displays All permissions – both valid and invalid uploaded from Excel.

Object Permissions
Field Permissions
Apex Class Permissions
Visual Force Page Permissions
Reset

All
Valid (9799)
Invalid (199)
Search here...

S No	Permission Set	Object	Field	Read	Edit	
1	ExcelToJson	Account	AccountNumber	☐	☒	🗑
2	ExcelToJson	Account	AccountSource	☐	☒	🗑
3	ExcelToJson	Account	AnnualRevenue	☒	☐	🗑
4	ExcelToJson	Account	BillingAddress	☒	☐	🗑
5	ExcelToJson	Account	NumberOfEmployees	☒	☐	🗑
6	ExcelToJson	Account	Industry	☒	☒	🗑
7	ExcelToJson	Account	Ownership	☒	☒	🗑
8	ExcelToJson	Account	Phone	☒	☒	🗑
9	ExcelToJson	Account	Rating	☒	☒	🗑
10	ExcelToJson	Account	Site	☒	☐	🗑
11	ExcelToJson	Account	Description	☒	☒	🗑
12	ExcelToJson	Account	Fax	☒	☒	🗑

5. The valid Button indicates only valid permissions from excel.

Object Permissions **Field Permissions** Apex Class Permissions Visual Force Page Permissions [Reset](#)

[All](#) [Valid \(9799\)](#) [Invalid \(199\)](#)

S No	Permission Set	Object	Field	☐ Read	☐ Edit	
3	ExcelToJson	Account	AnnualRevenue	☒	☐	🗑
4	ExcelToJson	Account	BillingAddress	☒	☐	🗑
5	ExcelToJson	Account	NumberOfEmployees	☒	☐	🗑
6	ExcelToJson	Account	Industry	☒	☒	🗑
7	ExcelToJson	Account	Ownership	☒	☒	🗑
8	ExcelToJson	Account	Phone	☒	☒	🗑
9	ExcelToJson	Account	Rating	☒	☒	🗑
10	ExcelToJson	Account	Site	☒	☐	🗑
11	ExcelToJson	Account	Description	☒	☒	🗑
12	ExcelToJson	Account	Fax	☒	☒	🗑
13	ExcelToJson	Account	ParentId	☒	☒	🗑
14	ExcelToJson	Account	ShippingAddress	☒	☒	🗑

6. Invalid Button indicates Invalid permissions from excel. All the invalid permissions are highlighted in red color.

7. Users can click on the invalid* button to view all invalid permissions.

Object Permissions **Field Permissions** Apex Class Permissions Visual Force Page Permissions [Reset](#)

[All](#) [Valid \(9799\)](#) [Invalid \(199\)](#) [Delete All](#)

S No	Permission Set	Object	Field	☐ Read	☐ Edit	
1	ExcelToJson	Account	AccountNumber	☐	☒	🗑
2	ExcelToJson	Account	AccountSource	☐	☒	🗑
101	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountNumber	☐	☒	🗑
102	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountSource	☐	☒	🗑
201	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountNumber	☐	☒	🗑
202	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountSource	☐	☒	🗑
301	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountNumber	☐	☒	🗑
302	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountSource	☐	☒	🗑
401	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountNumber	☐	☒	🗑
402	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountSource	☐	☒	🗑
501	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountNumber	☐	☒	🗑
502	PermissionSetDashboardTestDataCreations_Pe...	Account	AccountSource	☐	☒	🗑

8. On clicking on invalid, there is an option to Delete All invalid permissions using Delete All button.

9. Individual invalid entries can also be deleted by using the delete icon on each row.

10. Users can delete all invalid permissions using the delete all button or individual record deletion or can edit individual permissions to make them valid. As and when the record is updated to make it valid, system will move them to valid bucket automatically.

11. Users will be able to search for permissions or objects or fields using the search bar.

Object Permissions **Field Permissions** Apex Class Permissions Visual Force Page Permissions [Reset](#)

[All](#) [Valid \(200\)](#) [Invalid \(0\)](#) [Import](#)

S No	Permission Set	Object	Field	☐ Read	☐ Edit	
3	ExcelToJson	Account	AnnualRevenue	☒	☐	
46	ExcelToJson	Contact	Annual_CTC_c	☒	☒	
103	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
146	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	
203	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
246	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	
303	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
346	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	
403	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
446	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	
503	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
546	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	

12. Users can update all records in one go by using the Select All options available on headers of each column. **Please note, the Select All buttons on column headers will update only records that are currently in the view.** Scrolling up/down in the list of records shown, will reset the Select All buttons.

13. While viewing the records in valid bucket in case users modify the data using Select all buttons on the headers, user needs to click on Validate button to validate the permissions. **Please note that Validate button will validate only those records which are currently in view.**

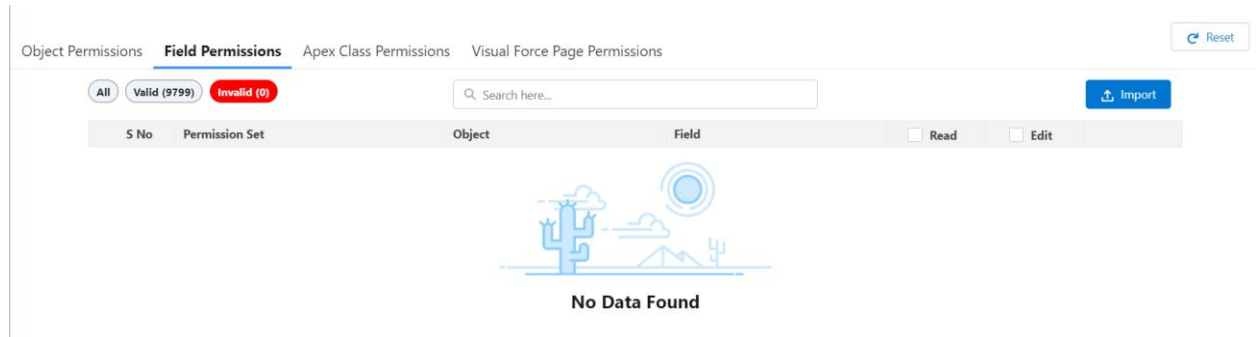
Object Permissions **Field Permissions** Apex Class Permissions Visual Force Page Permissions [Reset](#)

[All](#) [Valid \(200\)](#) [Invalid \(0\)](#) [Import](#)

S No	Permission Set	Object	Field	☒ Read	☐ Edit	
3	ExcelToJson	Account	AnnualRevenue	☒	☐	
46	ExcelToJson	Contact	Annual_CTC_c	☒	☒	
103	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
146	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	
203	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
246	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	
303	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
346	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	
403	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	
446	PermissionSetDashboardTestDataCreations_Pe...	Contact	Annual_CTC_c	☒	☒	
503	PermissionSetDashboardTestDataCreations_Pe...	Account	AnnualRevenue	☒	☐	

[Cancel](#) [Validate](#)

14. After deleting or Modifying all Invalid permissions, when the invalid count becomes 0, the Import button is made available on the Screen to upload permissions to the org.



15. User will have to review the data in each tab and use Import button available in respective tab to upload the data to Org.

16. System will show a progress bar to indicate progress of data upload, while the process in progress.

The screenshot shows the 'Field Permissions' tab in a system interface. At the top, there are tabs for 'Object Permissions', 'Field Permissions' (selected), 'Apex Class Permissions', and 'Visual Force Page Permissions'. Below the tabs, there is a progress bar showing 15% completion. To the right of the progress bar is an 'Import' button. Below the progress bar, there is a table with columns: 'S No', 'Permission Set', 'Object', 'Field', 'Read', and 'Edit'. The 'Read' and 'Edit' columns have checkboxes. The table contains 12 rows of data. In the top right corner, there is a 'Reset' button.

S No	Permission Set	Object	Field	Read	Edit
3	ExcelToJson	Account	AnnualRevenue	☒	☐
4	ExcelToJson	Account	BillingAddress	☒	☐
5	ExcelToJson	Account	NumberOfEmployees	☒	☐
6	ExcelToJson	Account	Industry	☒	☒
7	ExcelToJson	Account	Ownership	☒	☒
8	ExcelToJson	Account	Phone	☒	☒
9	ExcelToJson	Account	Rating	☒	☒
10	ExcelToJson	Account	Site	☒	☐
11	ExcelToJson	Account	Description	☒	☒
12	ExcelToJson	Account	Fax	☒	☒
13	ExcelToJson	Account	ParentId	☒	☒
14	ExcelToJson	Account	ShippingAddress	☒	☒

17. After successful upload application will display success and error records in the form of buttons.

Object Permissions **Field Permissions** Apex Class Permissions Visual Force Page Permissions [Reset](#)

Success (9599) **Error (200)** [Download](#) ⓘ

S No	Permission Set	Object	Field	☐ Read	☐ Edit
3	ExcelToJson	Account	AnnualRevenue	☒	☐
4	ExcelToJson	Account	BillingAddress	☒	☐
5	ExcelToJson	Account	NumberOfEmployees	☒	☐
6	ExcelToJson	Account	Industry	☒	☒
7	ExcelToJson	Account	Ownership	☒	☒
8	ExcelToJson	Account	Phone	☒	☒
9	ExcelToJson	Account	Rating	☒	☒
10	ExcelToJson	Account	Site	☒	☐
11	ExcelToJson	Account	Description	☒	☒
12	ExcelToJson	Account	Fax	☒	☒
13	ExcelToJson	Account	ParentId	☒	☒
14	ExcelToJson	Account	ShippingAddress	☒	☒

18. There is a Download button available to download success and error records in the form of Excel.

Object Permissions **Field Permissions** Apex Class Permissions Visual Force Page Permissions [Reset](#)

Success (9599) **Error (200)** [Download](#) ⓘ

S No	Permission Set	Object	Field	☐ Read	☐ Edit
3	ExcelToJson	Account	AnnualRevenue	☒	☐
4	ExcelToJson	Account	BillingAddress	☒	☐
5	ExcelToJson	Account	NumberOfEmployees	☒	☐
6	ExcelToJson	Account	Industry	☒	☒
7	ExcelToJson	Account	Ownership	☒	☒
8	ExcelToJson	Account	Phone	☒	☒
9	ExcelToJson	Account	Rating	☒	☒
10	ExcelToJson	Account	Site	☒	☐
11	ExcelToJson	Account	Description	☒	☒
12	ExcelToJson	Account	Fax	☒	☒
13	ExcelToJson	Account	ParentId	☒	☒
14	ExcelToJson	Account	ShippingAddress	☒	☒

19. There is a Reset button which will help users to reset the application which will clear the data in UI.

[Object Permissions](#) [Field Permissions](#) [Apex Class Permissions](#) [Visual Force Page Permissions](#)

[Reset](#)

Success (9599) Error (200)

Search here...

Download

S No	Permission Set	Object	Field	☐ Read	☐ Edit
3	ExcelToJson	Account	AnnualRevenue	☒	☐
4	ExcelToJson	Account	BillingAddress	☒	☐
5	ExcelToJson	Account	NumberOfEmployees	☒	☐
6	ExcelToJson	Account	Industry	☒	☒
7	ExcelToJson	Account	Ownership	☒	☒
8	ExcelToJson	Account	Phone	☒	☒
9	ExcelToJson	Account	Rating	☒	☒
10	ExcelToJson	Account	Site	☒	☐
11	ExcelToJson	Account	Description	☒	☒
12	ExcelToJson	Account	Fax	☒	☒
13	ExcelToJson	Account	ParentId	☒	☒
14	ExcelToJson	Account	ShippingAddress	☒	☒

Apex Class Permissions

1. **Apex Class Permissions** tab of the app provides functionality to assign or remove permissions to apex class on the permission sets.
2. After uploading the Excel template, the user can see a table with S.No, Permission set name, apex class name, and grant access columns.

Object Permissions	Field Permissions	Apex Class Permissions	Visual Force Page Permissions	Reset
All	Valid (500)	Invalid (12)	Search here...	
S No	Permission Set	Apex Class	☐ Grant	
1	PS_V1	PSTestController1	☐	
2	PS_V1	PSTestController2	☐	
3		PSTestController3	☐	
4	PS_tefsdgsdgadgadfgadfgdaggdggfgrfgrfgrf	PS_tefsdgsdgadgadfgadfgdaggdggfgrfgrfPS_tefsdgsdgadgadfgadfgda...	☒	
5	PS_V1	PSTestController5	☐	
6	PS_V2	PSTestController1	☒	
7	PS_V2	PSTestController2	☐	
8	PS_V2	PSTestController3	☒	
9	PS_V2	PSTestController4	☒	
10	PS_V2	PSTestController5	☒	
11	PS_V3	PSTestController1	☒	

3. The application validates the permissions provided through Excel and splits the data uploaded into valid and invalid buckets along with count for each bucket.
4. All Button displays All permissions – both valid and invalid uploaded from Excel.

Object Permissions	Field Permissions	Apex Class Permissions	Visual Force Page Permissions	Reset
All	Valid (500)	Invalid (12)	Search here...	
S No	Permission Set	Apex Class	☐ Grant	
1	PS_V1	PSTestController1	☐	
2	PS_V1	PSTestController2	☐	
3		PSTestController3	☐	
4	PS_tefsdgsdgadgadfgadfgdaggdggfgrfgrfgrf	PS_tefsdgsdgadgadfgadfgdaggdggfgrfgrfPS_tefsdgsdgadgadfgadfgda...	☒	
5	PS_V1	PSTestController5	☐	
6	PS_V2	PSTestController1	☒	
7	PS_V2	PSTestController2	☐	
8	PS_V2	PSTestController3	☒	
9	PS_V2	PSTestController4	☒	
10	PS_V2	PSTestController5	☒	
11	PS_V3	PSTestController1	☒	

- The valid Button indicates only valid permissions from excel. **Please note If Grant Value is not specified in Excel, then it will be treated as false, and that permission is removed from the respective permission set.**

Object Permissions Field Permissions **Apex Class Permissions** Visual Force Page Permissions Reset

All **Valid (500)** Invalid (12)

S No	Permission Set	Apex Class	☐ Grant	
1	PS_V1	PSTestController1	☐	
2	PS_V1	PSTestController2	☐	
4	PS_tefsdgsdgadfgadfgadfgdaggdggfsgfsgf	PS_tefsdgsdgadfgadfgadfgdaggdggfsgfsgfPS_tefsdgsdgadfgadfgadfgda...	☒	
5	PS_V1	PSTestController5	☐	
6	PS_V2	PSTestController1	☒	
7	PS_V2	PSTestController2	☐	
8	PS_V2	PSTestController3	☒	
9	PS_V2	PSTestController4	☒	
10	PS_V2	PSTestController5	☒	
11	PS_V3	PSTestController1	☒	

- Invalid Button indicates Invalid permissions from excel. All the invalid permissions are highlighted in red color.
- Users can click on the invalid* button to view all invalid permissions.

Object Permissions Field Permissions **Apex Class Permissions** Visual Force Page Permissions Reset

All **Valid (500)** **Invalid (12)** Delete All

S No	Permission Set	Apex Class	☐ Grant	
3		PSTestController3	☐	
52	A		☐	
53	B		☐	
54	C		☐	
55		F	☐	
56		G	☐	
57	PerMissionSetDashboardProjectTestingDataExamplePermissionSetName		☐	
58			☐	
114	dsfsf		☐	
115	fsdf		☐	
116		DarkMissionCatDashboardTestingDataExampleControllerClass	☐	

- On clicking on invalid, there is an option to Delete All invalid permissions using Delete All button.
- Individual invalid entries can also be deleted by using the delete icon on each row.
- Users can delete all invalid permissions using the delete all button or individual record deletion or can edit individual permissions to make them valid. As and when the record is updated to make it valid, system will move them to valid bucket automatically.

11. Users will be able to search for permissions or Apex class using the search bar.

Object Permissions Field Permissions **Apex Class Permissions** Visual Force Page Permissions Reset

All **Valid (100)** Invalid (0)

S No	Permission Set	Apex Class	☐ Grant	
1	PS_V1	PSTestController1	☐	
6	PS_V2	PSTestController1	☒	
11	PS_V3	PSTestController1	☒	
16	PS_V4	PSTestController1	☒	
21	PS_V5	PSTestController1	☒	
26	PS_V6	PSTestController1	☒	
31	PS_V7	PSTestController1	☒	
36	PS_V8	PSTestController1	☒	
41	PS_V9	PSTestController1	☒	
46	PS_V10	PSTestController1	☒	
51	PS_V11	PSTestController1	☒	

12. Users can update all records in one go by using the Select All options available on header of column. **Please note, the Select All buttons on column headers will update only records that are currently in the view.** Scrolling up/down in the list of records shown, will reset the Select All buttons.

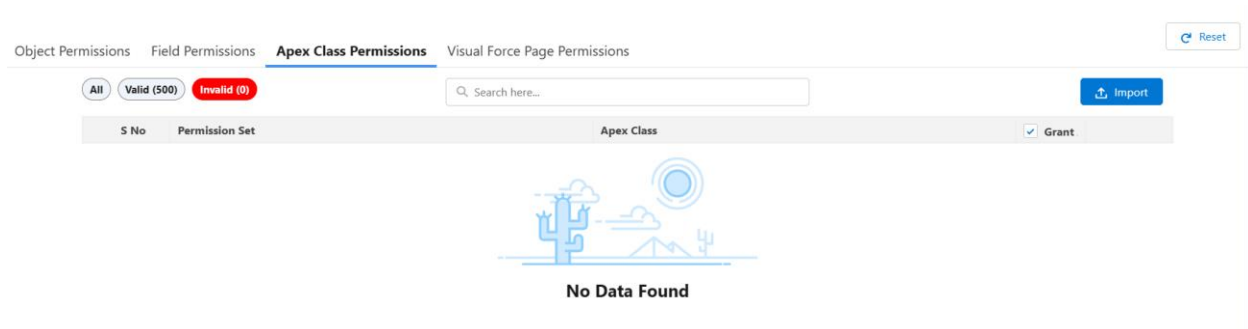
13. While viewing the records in valid bucket in case users modify the data using Select all buttons on the headers, user needs to click on Validate button to validate the permissions. **Please note that Validate button will validate only those records which are currently in view.**

Object Permissions Field Permissions **Apex Class Permissions** Visual Force Page Permissions Reset

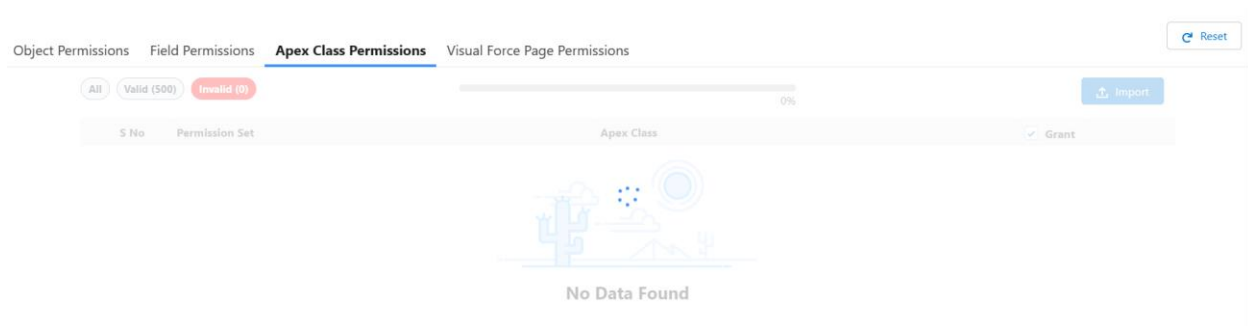
All **Valid (500)** Invalid (12)

S No	Permission Set	Apex Class	☒ Grant	
1	PS_V1	PSTestController1	☒	
2	PS_V1	PSTestController2	☒	
3		PSTestController3	☒	
4	PS_tefsdgsdgdgadfsgadfgdaggggfgfdfs	PS_tefsdgsdgdgadfsgadfgdaggggfgfdfsPS_tefsdgsdgdgadfsgadfgda...	☒	
5	PS_V1	PSTestController5	☒	
6	PS_V2	PSTestController1	☒	
7	PS_V2	PSTestController2	☒	
8	PS_V2	PSTestController3	☒	
9	PS_V2	PSTestController4	☒	
10	PS_V2	PSTestController5	☒	
11	PS_V2	PSTestController	☐	

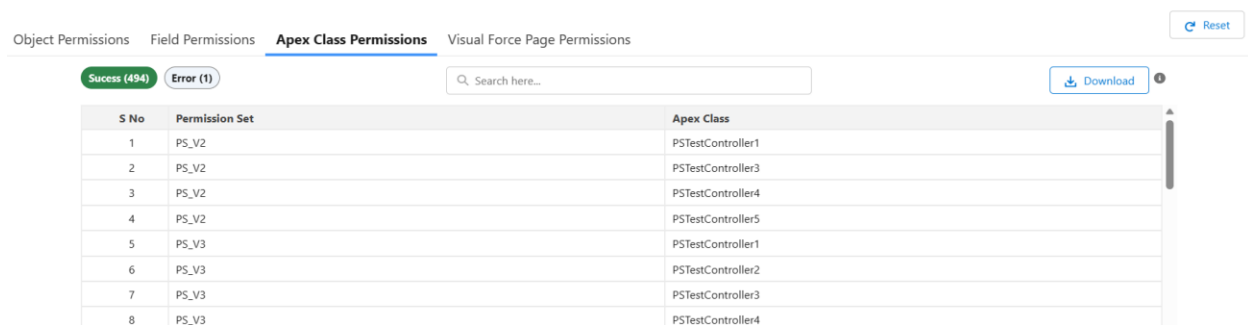
14. After deleting or Modifying all Invalid permissions, when the invalid count becomes 0, the Import button is made available on the Screen to upload permissions to the org.



15. User will have to review the data in each tab and use Import button available in respective tab to upload the data to Org.
16. System will show a progress bar to indicate progress of data upload, while the process in progress.



17. After successful upload application will display success and error records in the form of buttons.



18. There is a Download button available to download success and error records in the form of Excel.

Object Permissions Field Permissions **Apex Class Permissions** Visual Force Page Permissions Reset

Success (494) Error (1) Download ⓘ

S No	Permission Set	Error Message
0	PS_V1	INVALID_CROSS_REFERENCE_KEY: Parent ID is invalid: null

19. There is a Reset button which will help users to reset the application which will clear the data in UI.

VF Page

1. **VF Page Permissions** tab of the app provides functionality to assign or remove permissions to VF Page on the permission sets.
2. After uploading the Excel template, the user can see a table with S. No, Permission set name, VF Page name, and grant access (to add or remove VF Page Permission).

Object Permissions Field Permissions Apex Class Permissions **Visual Force Page Permissions** Reset

All Valid (501) Invalid (8)

S No	Permission Set	VF Page	☐ Grant	
1	PS_V1	PSTestPage1	☒	🗑
2	PS_V1	PSTestPage2	☐	🗑
3	PS_V1	PSTestPage3	☐	🗑
4	PS_V1	PSTestPage4	☒	🗑
5	PS_V1	PSTestPage5	☒	🗑
6	PS_V2	PSTestPage1	☒	🗑
7	PS_V2	PSTestPage2	☐	🗑
8	PS_V2	PSTestPage3	☒	🗑
9	PS_V2	PSTestPage4	☒	🗑
10	PS_V2	PSTestPage5	☒	🗑
12	TestPS		☐	🗑
14		ABC	☐	🗑
18	dfsfsf		☐	🗑

3. The application validates the permissions provided through Excel and splits the data uploaded into valid and invalid buckets along with count for each bucket.
4. All Button displays All permissions – both valid and invalid uploaded from Excel.

Object Permissions Field Permissions Apex Class Permissions **Visual Force Page Permissions** Reset

All Valid (501) Invalid (8)

S No	Permission Set	VF Page	☐ Grant	
1	PS_V1	PSTestPage1	☒	🗑
2	PS_V1	PSTestPage2	☐	🗑
3	PS_V1	PSTestPage3	☐	🗑
4	PS_V1	PSTestPage4	☒	🗑
5	PS_V1	PSTestPage5	☒	🗑
6	PS_V2	PSTestPage1	☒	🗑
7	PS_V2	PSTestPage2	☐	🗑
8	PS_V2	PSTestPage3	☒	🗑
9	PS_V2	PSTestPage4	☒	🗑
10	PS_V2	PSTestPage5	☒	🗑
12	TestPS		☐	🗑
14		ABC	☐	🗑
18	dfsfsf		☐	🗑

- The valid Button indicates only valid permissions from excel. **Please note If Grant Value is not specified in Excel, then it will be treated as false, and that permission is removed from the respective permission set.**

Object Permissions Field Permissions Apex Class Permissions **Visual Force Page Permissions** Reset

All **Valid (501)** **Invalid (8)**

S No	Permission Set	VF Page	☐ Grant	
1	PS_V1	PSTestPage1	☒	
2	PS_V1	PSTestPage2	☐	
3	PS_V1	PSTestPage3	☐	
4	PS_V1	PSTestPage4	☒	
5	PS_V1	PSTestPage5	☒	
6	PS_V2	PSTestPage1	☒	
7	PS_V2	PSTestPage2	☐	
8	PS_V2	PSTestPage3	☒	
9	PS_V2	PSTestPage4	☒	
10	PS_V2	PSTestPage5	☒	
27	PerMissionSetDashboardTestingDataExampleControllerClass	PerMissionSetDashboardTestingDataExampleControllerClass	☐	
61	PS_V3	PSTestPage1	☒	
62	PS_V3	PSTestPage2	☒	

- Invalid Button indicates Invalid permissions from excel. All the invalid permissions are highlighted in red color.
- Users can click on the invalid* button to view all invalid permissions.

Object Permissions Field Permissions Apex Class Permissions **Visual Force Page Permissions** Reset

All **Valid (501)** **Invalid (8)** Delete All

S No	Permission Set	VF Page	☐ Grant	
12	TestPS		☐	
14		ABC	☐	
18	dfsf		☐	
189	dsf		☐	
193		fdsf	☐	
198	dfsd		☐	
199		fsdf	☐	
652			☒	

- On clicking on invalid, there is an option to Delete All invalid permissions using Delete All button.
- Individual invalid entries can also be deleted by using the delete icon on each row.

10. Users can delete all invalid permissions using the delete all button or individual record deletion or can edit individual permissions to make them valid. As and when the record is updated to make it valid, system will move them to valid bucket automatically.
11. Users will be able to search for permissions or VF Page using the search bar.

Object Permissions Field Permissions Apex Class Permissions **Visual Force Page Permissions** Reset

All **Valid (100)** Invalid (0)

S No	Permission Set	VF Page	☐ Grant	
1	PS_V1	PSTestPage1	☒	
6	PS_V2	PSTestPage1	☒	
61	PS_V3	PSTestPage1	☒	
66	PS_V4	PSTestPage1	☐	
71	PS_V5	PSTestPage1	☒	
76	PS_V6	PSTestPage1	☐	
81	PS_V7	PSTestPage1	☒	

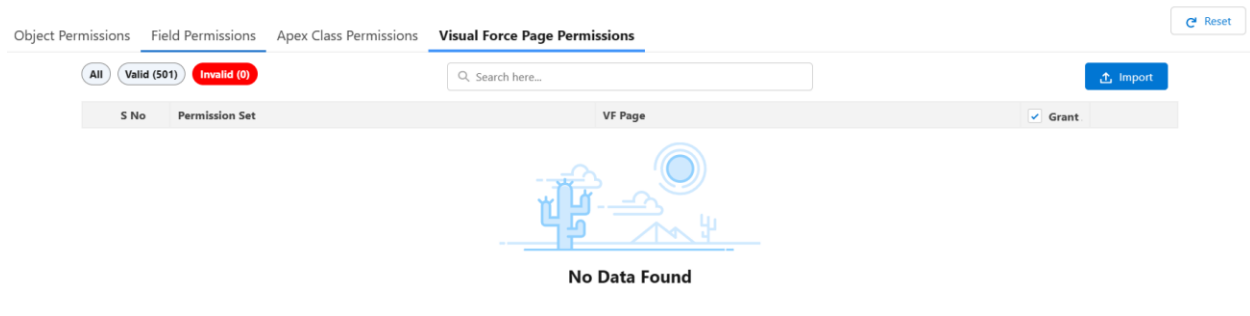
12. Users can update all records in one go by using the Select All options available on headers of each column. **Please note, the Select All buttons on column headers will update only records that are currently in the view.** Scrolling up/down in the list of records shown, will reset the Select All buttons.
13. While viewing the records in valid bucket in case users modify the data using Select all buttons on the headers, user needs to click on Validate button to validate the permissions. **Please note that Validate button will validate only those records which are currently in view.**

Object Permissions Field Permissions Apex Class Permissions **Visual Force Page Permissions** Reset

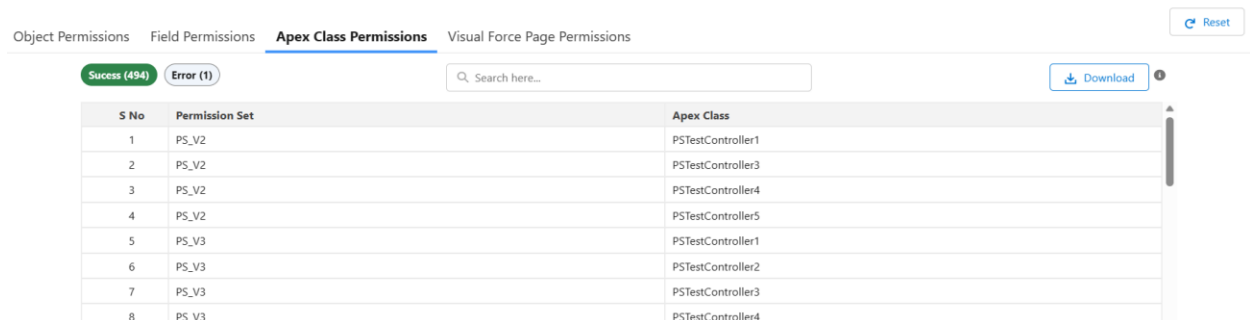
All **Valid (501)** Invalid (8)

S No	Permission Set	VF Page	☒ Grant	
1	PS_V1	PSTestPage1	☒	
2	PS_V1	PSTestPage2	☒	
3	PS_V1	PSTestPage3	☒	
4	PS_V1	PSTestPage4	☒	
5	PS_V1	PSTestPage5	☒	
6	PS_V2	PSTestPage1	☒	
7	PS_V2	PSTestPage2	☒	

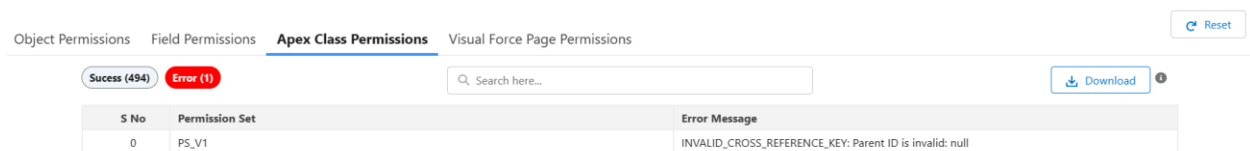
14. After deleting or Modifying all Invalid permissions, when the invalid count becomes 0, the Import button is made available on the Screen to upload permissions to the org.



15. User will have to review the data in each tab and use Import button available in respective tab to upload the data to Org.
16. System will show a progress bar to indicate progress of data upload, while the process in progress.
17. After successful upload application will display success and error records in the form of buttons.



18. There is a Download button available to download success and error records in the form of Excel.



19. There is a Reset button which will help users to reset the application which will clear the data in UI.

Validations

* Following validations are done in the app to identify the invalid entries:

Objects – If the row has any blank value/spaces/doesn't match with the salesforce org valid combinations.

Fields – If the row has any blank value/spaces/doesn't match with the salesforce org valid combinations ('TRUE, TRUE', 'TRUE, FLASE', 'FALSE, FALSE').

Apex Class – If the row has any blank value/spaces in the Excel.

VF Pages – If the row has any blank value/spaces in the Excel.

References :

Technical Document -

1. Lightning Applications :

S.No	Name	API Name
1	PSU (Permission Set Uploader)	PSU_Permission_Set_Uploader
Description		
PSU App contains the main content which allows users to upload the excel document and update permission set in org.		

2. Custom Tab:

S.No	Name	API Name
1	PSU (Permission Set Uploader)	Permission_Set_Uploader
Description		
This is a Lightning Component Tab which is associated to Lightning Web Component ' ICT_excelToJsonConverter_sls .		

3. Lightning Web Components:

S.No	Name
1	ICT_excelToJsonConverter_sls
Description	
1. ICT_excelToJsonConverter_sls is for converting excel data to JSON segregate those data for objects/fields/apex/VF page and validation checks.	

S.No	Name
1	ICT_objectPermissionSet_sls
Description	
2. ICT_objectPermissionSet_sls is for validating object data, updating and call the apex class which will get the success and error records.	

S.No	Name
1	ICT_fieldPermissionSet_sls
Description	
3. ICT_fieldPermissionSet_sls is for validating field data, updating and call the apex class which will get the success and error records.	

S.No	Name
1	ICT_apexPermissionSet_sls
Description	
4. ICT_apexPermissionSet_sls is for validating apex data, updating and call the apex class which will get the success and error records.	

S.No	Name
1	ICT_visualForcePagePermissionSet_sls
Description	
5. ICT_visualForcePagePermissionSet_sls is for validating VF page data, updating and call the apex class which will get the success and error records.	

S.No	Name
1	ICT_noData_sls
Description	
6. ICT_noData_sls is to display the illustration in where there is no data in UI.	

4. Apex Class:

S.No	Name
1	CCT_ExcelToJsonConverter_sls CCT_ExcelToJsonConverterTest_sls
Description	
1. CCT_ExcelToJsonConverter_sls is to create or update the field permission sets in org from UI and send the updated result to UI.	

S.No	Name
1	CCT_ObjectPermissionController_sls CCT_ObjectPermissionControllerTest_sls
Description	
1. CCT_ObjectPermissionController_sls is to create or update the object permission sets in org from UI and send the updated result to UI.	

S.No	Name
1	CCT_ApexVFPermissionSetController CCT_ApexVFPermissionSetControllerTest
Description	
1. CCT_ApexVFPermissionSetControllers is to create or update the Apex and VF permission sets in org from UI and send the updated result to UI.	

S.No	Name
1	ObjectRowData
Description	
1. ObjectRowData is for wrapper class to convert the data from JS to wrapper class.	

S.No	Name
1	FieldRowData
Description	
1) FieldRowData is for wrapper class to convert the data from JS to wrapper class.	

S.No	Name
1	ApexVFRowData
Description	
1. ApexVFRowData is for wrapper class to convert the data from JS to wrapper class.	

5. Static Resources :

S.No	Name
1	ExcelReaderPlugin
Description	
1. ExcelReaderPlugin is a script file which is used to convert the excel file to JSON format.	

S.No	Name
1	ExperienceImage
Description	
2. ExperienceImage is a PNG image which is used for display it in the UI	

Technical Data Flow

