

NAAN MUDHALVAN
SALESFORCE DEVELOPER PROJECT REPORT

PROJECT TITLE: CREATION OF AN APPLICATION FOR SCHOOL
MANAGEMENT

COLLEGE: PONJESLY COLLEGE OF ENGINEERING.

DONE BY:

HARISH.M

REG NO: 961820114313

NM ID: 248C6EE68E275D0890C4F027F2960BE2

STEP 1: Create a Salesforce Account

The screenshot shows a Salesforce user profile for 'Harish M'. The profile includes a profile picture of a blue cat-like character, a bio that says 'Share your awesomeness with the world. (Or at least with your colleagues on Chatter.)', and a 'Details' section with the following information:

Details	
Name	Harish M
Title	
Manager	
Company Name	Ponjesly College of Engineering
Email	harishmonikandan@gmail.com
Phone	

The 'Related' section shows 'Groups (0)' and 'Files (0)'. The background of the profile page features a stylized orange mountain range and a hot air balloon.

STEP 2 : Create the Objects (School, Student, Parent)

The screenshot shows the Salesforce Object Manager interface. The 'Setup' menu is open, and 'Object Manager' is selected. The 'School' object is listed in the table below:

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
School	School_c	Custom Object		29/10/2023	✓

The interface also includes a search bar with the text 'school' and buttons for 'Schema Builder' and 'Create'.

Student x Object Manager | Salesforce x

ponjeslycollegeofenginee98-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/home

Search Setup

Setup Home Object Manager

Object Manager

1 Items, Sorted by Label

Schema Builder Create

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Parent	Parent__c	Custom Object		29/10/2023	✓

ENG IN 03:55 PM 29-10-2023

Student x Object Manager | Salesforce x

ponjeslycollegeofenginee98-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/home

Search Setup

Setup Home Object Manager

Object Manager

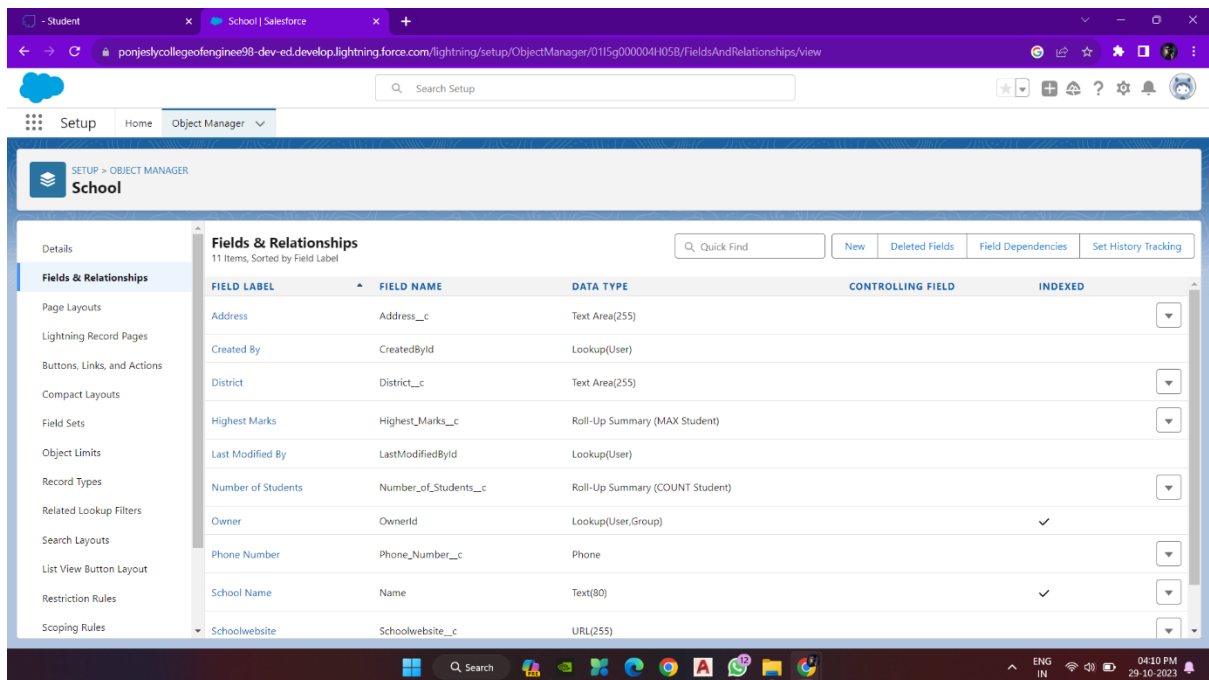
1 Items, Sorted by Label

Schema Builder Create

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Student	Student__c	Custom Object		29/10/2023	✓

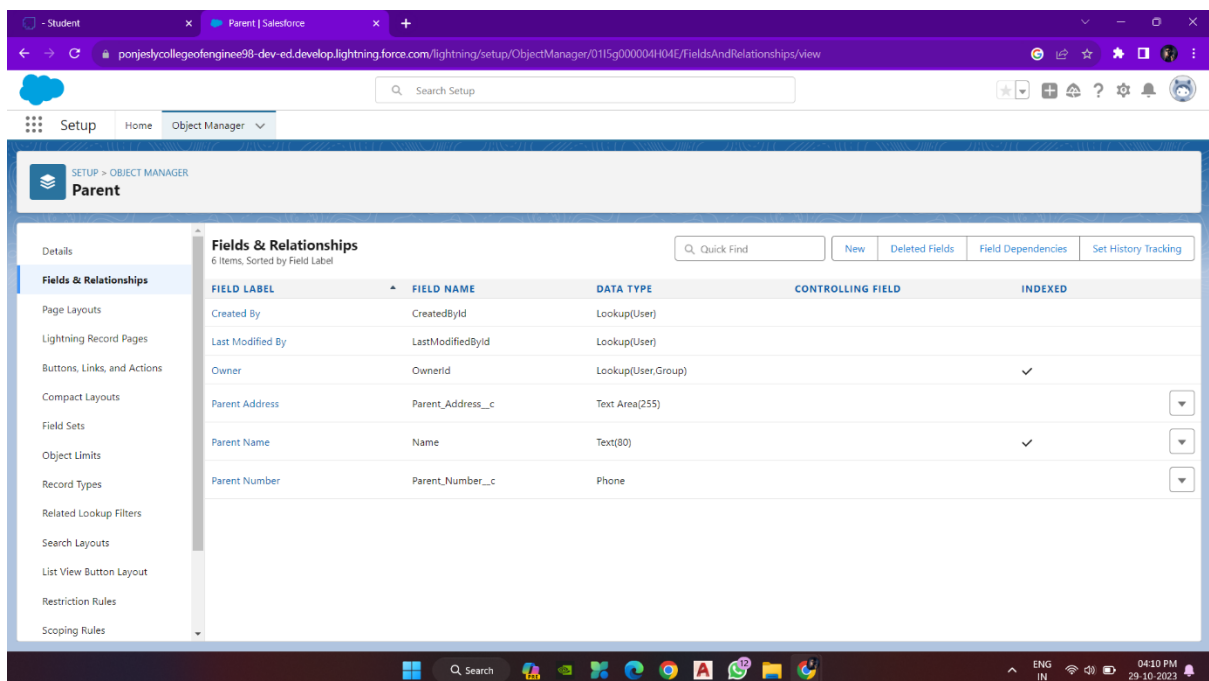
ENG IN 03:55 PM 29-10-2023

STEP 3 : Create Fields for respective objects (Schools, Student, Parents)



The screenshot shows the Salesforce Setup interface for the 'School' object. The 'Fields & Relationships' section is active, displaying a list of 11 fields. The fields are sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text Area(255)		
Created By	CreatedById	Lookup(User)		
District	District__c	Text Area(255)		
Highest Marks	Highest_Marks__c	Roll-Up Summary (MAX Student)		
Last Modified By	LastModifiedById	Lookup(User)		
Number of Students	Number_of_Students__c	Roll-Up Summary (COUNT Student)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone Number	Phone_Number__c	Phone		
School Name	Name	Text(80)		✓
Schoolwebsite	Schoolwebsite__c	URL(255)		



The screenshot shows the Salesforce Setup interface for the 'Parent' object. The 'Fields & Relationships' section is active, displaying a list of 6 fields. The fields are sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Parent Address	Parent_Address__c	Text Area(255)		
Parent Name	Name	Text(80)		✓
Parent Number	Parent_Number__c	Phone		

The screenshot shows the Salesforce Setup interface for the 'Student' object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, and Scoping Rules. The main content area is titled 'Fields & Relationships' and shows a table of 9 items, sorted by Field Label. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are Class, Created By, E-Mail, Last Modified By, Marks, Phone Number, Results, School, and Student Name.

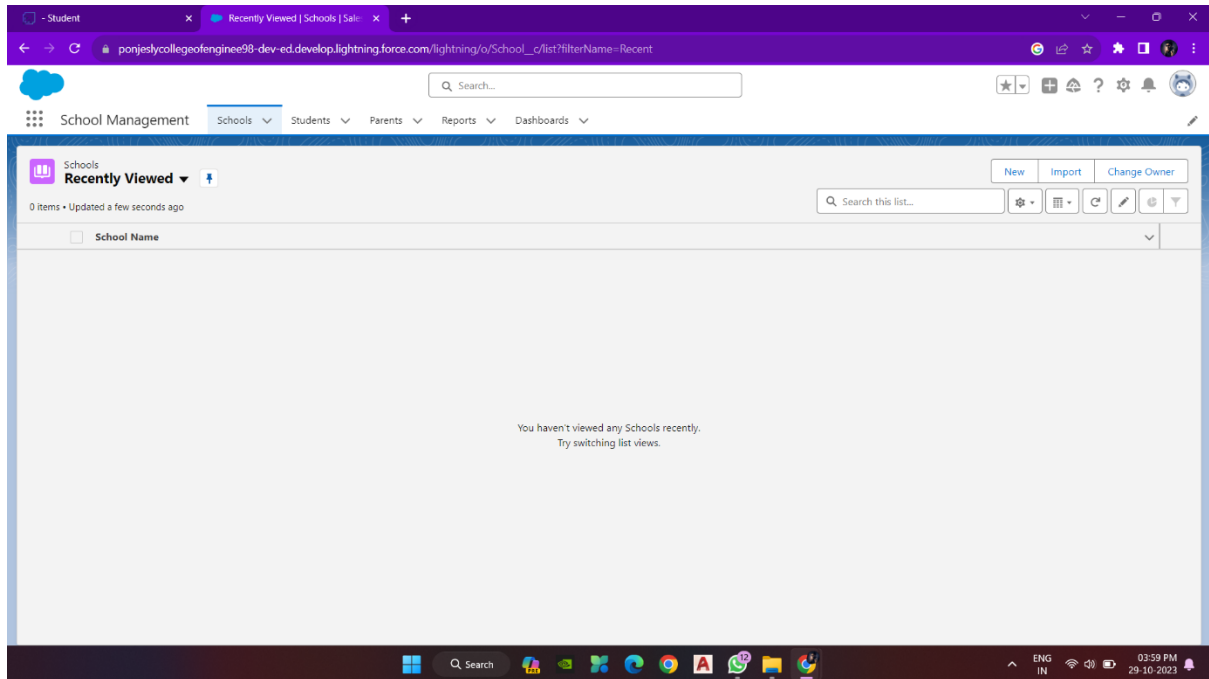
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Class	Class__c	Number(8, 2)		
Created By	CreatedById	Lookup(User)		
E-Mail	E_Mail__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Marks	Marks__c	Number(8, 2)		
Phone Number	Phone_Number__c	Phone		
Results	Results__c	Picklist		
School	School__c	Master-Detail(School)		✓
Student Name	Name	Text(80)		✓

STEP 4 : Create the Tabs for each object (School, Student, Parent)

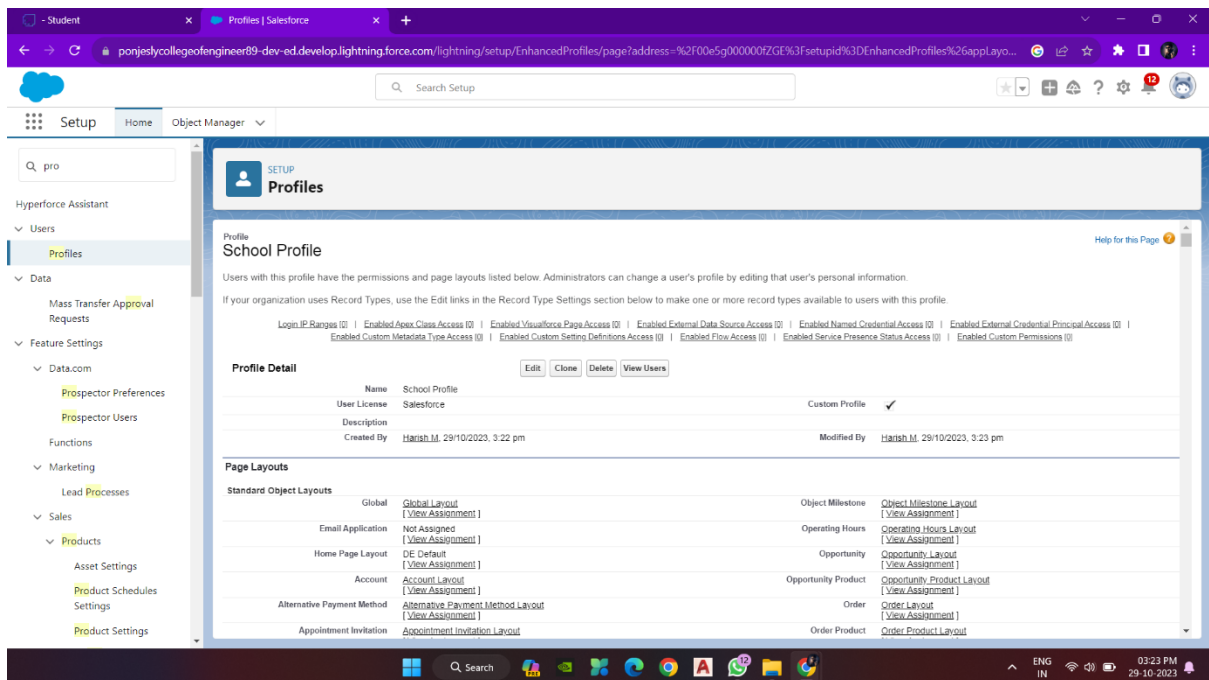
The screenshot shows the Salesforce Setup interface for the 'Custom Tabs' section. The left sidebar contains a navigation menu with options like tabs, User Interface, Rename Tabs and Labels, and Tabs. The main content area is titled 'Custom Tabs' and provides information on how to create custom tabs. It includes sections for Custom Object Tabs, Web Tabs, Visualforce Tabs, and Lightning Component Tabs. The Custom Object Tabs section shows a table with columns for Action, Label, Tab Style, and Description. The table lists three tabs: Parents, Schools, and Students.

Action	Label	Tab Style	Description
Edit Del	Parents	Bank	
Edit Del	Schools	Books	
Edit Del	Students	Laptop	

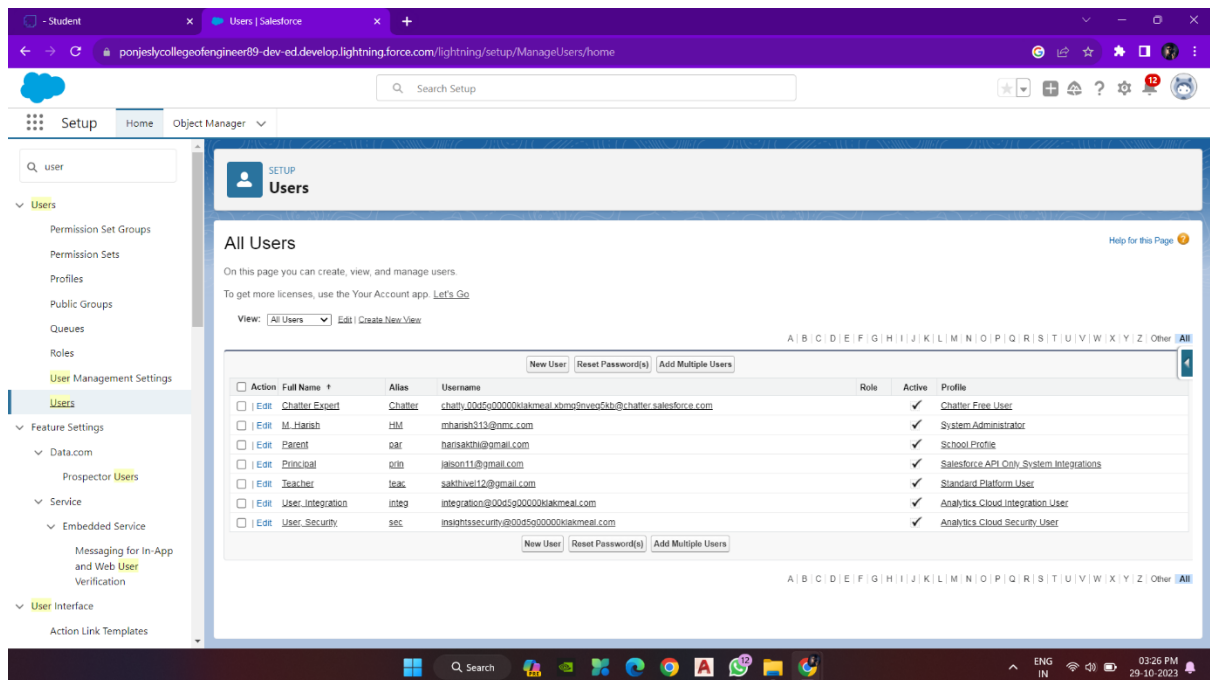
STEP 5 : Create a Lightning App



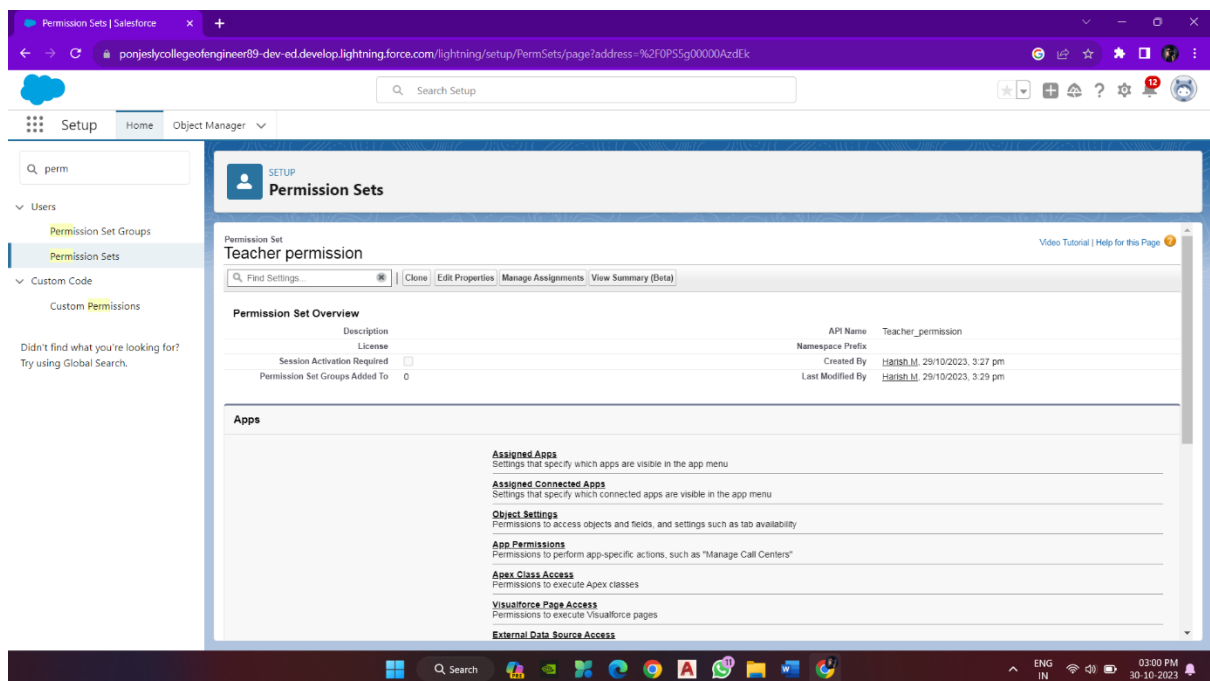
STEP 6 : Create the School Profile

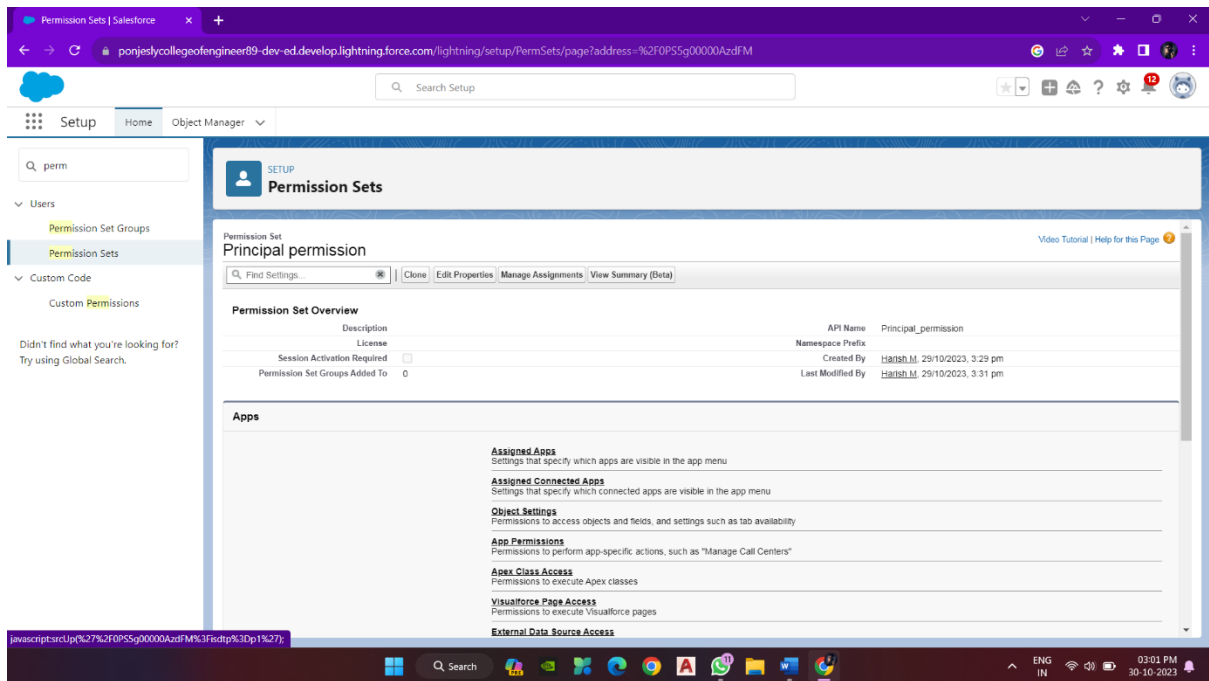


STEP 7 : Create the Users (Teacher, Parent, Principal)



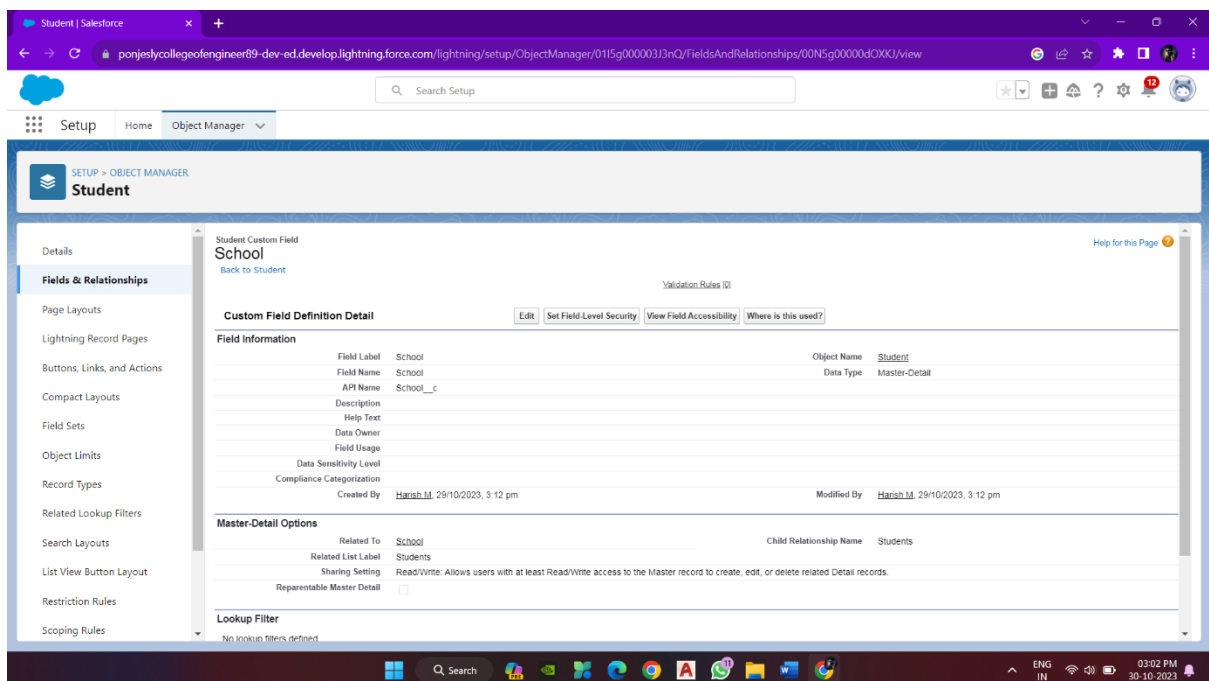
STEP 8 : Create the Permission Set for the User's





The screenshot shows the Salesforce Setup interface for a user named 'ponjesylcolleageofengineer89-dev-ed'. The left sidebar contains a search bar with 'perm' and a list of navigation items: Users, Permission Set Groups, Permission Sets (selected), Custom Code, and Custom Permissions. The main content area is titled 'Permission Sets' and shows the 'Principal permission' set. It includes a 'Find Settings' search bar, buttons for 'Clone', 'Edit Properties', 'Manage Assignments', and 'View Summary (Beta)'. Below this is a 'Permission Set Overview' table with columns for Description, License, API Name, Namespace Prefix, Created By, and Last Modified By. The table shows the 'Principal_permission' set, created by 'Harish M.' on 29/10/2023. Below the overview is a section for 'Apps' with a list of permissions: Assigned Apps, Assigned Connected Apps, Object Settings, App Permissions, Apex Class Access, Visualforce Page Access, and External Data Source Access.

STEP 9 : Create Master Detail relationship



The screenshot shows the Salesforce Setup interface for a user named 'Student'. The left sidebar contains a search bar with 'Search Setup' and a list of navigation items: Setup, Home, Object Manager (selected), Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, and Scoping Rules. The main content area is titled 'Object Manager' and shows the 'School' object. It includes a 'Details' section with a 'Back to Student' link and a 'Validation Rules' link. Below this is a 'Custom Field Definition Detail' section with tabs for 'Edit', 'Set Field-Level Security', 'View Field Accessibility', and 'Where is this used?'. The 'Field Information' table shows the 'School' field with columns for Field Label, Field Name, API Name, Description, Help Text, Data Owner, Field Usage, Data Sensitivity Level, Compliance Categorization, Created By, and Modified By. The 'Master-Detail Options' section shows the 'School' object with columns for Related To, Related List Label, Sharing Setting, Reparentable Master Detail, Child Relationship Name, and Master-Detail. The 'Lookup Filter' section shows 'No lookup filters defined'.

STEP 10 : Create Records in Lightning App

The screenshot displays the Salesforce Lightning App interface for the 'Reports' section. The main content area shows a table of recent reports:

REPORTS	Report Name	Description	Folder	Created By	Created On	Subscribed
Recent	Parents Report		Private Reports	Harish M	29/10/2023, 3:39 pm	
Created by Me	Schools with Students Report		Private Reports	Harish M	29/10/2023, 3:39 pm	

The left sidebar contains navigation links: 'School Management', 'Schools', 'Parents', 'Students', 'Reports', and 'Dashboards'. The top navigation bar includes a search bar and various utility icons.

STEP 11 : Deleting Records

The screenshot displays the Salesforce Lightning App interface for the 'Schools' section. The main content area shows a list of recently viewed schools:

School Name
1 Jack Sparrow pre School
2 Jack Sparrow High School

A modal dialog box is open, asking for confirmation to delete a school. The dialog box has the title 'Delete School' and the text 'Are you sure you want to delete this School?'. There are 'Cancel' and 'Delete' buttons at the bottom of the dialog box.

STEP 12 : Create Apex Class and Apex Trigger

The screenshot shows the Salesforce Developer Console with the Apex Trigger code for `SchoolTrigger` on `School__c` (before delete). The code is as follows:

```
1 trigger SchoolTrigger on School__c (before delete) {
2     if(trigger.isDelete){
```

The Entity Explorer on the right shows the following entities:

Entity Type	Entities	Related
Entity Type	Name	Namespace
Classes	schoolHandler	
Triggers		
Pages		
Page Components		
Objects		
Static Resources		
Packages		

The screenshot shows the Salesforce Developer Console with the Apex Trigger code for `SchoolTrigger` on `School__c` (before delete). The code is as follows:

```
1 trigger SchoolTrigger on School__c (before delete) {
2     if(trigger.isDelete){
```

The Entity Explorer on the right shows the following entities:

Entity Type	Entities	Related
Entity Type	Name	Namespace
Classes	Internalmarks	
Triggers		
Pages		
Page Components		
Objects		
Static Resources		
Packages		

STEP 13 : Create a Flow

