

**NAAN MUDHALVAN**  
**SALESFORCE DEVELOPER PROJECT REPORT**

**PROJECT TITLE:** CREATION OF AN APPLICATION FOR SCHOOL  
MANAGEMENT

**COLLEGE:** PONJESLY COLLEGE OF ENGINEERING.

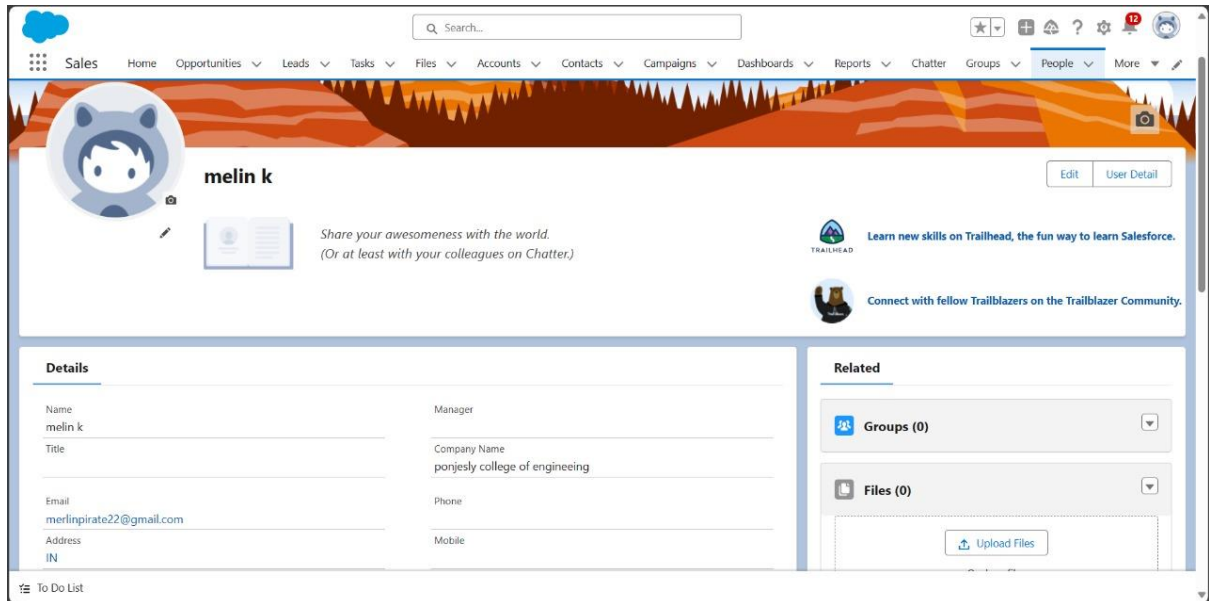
**DONE BY:**

MERLIN.K

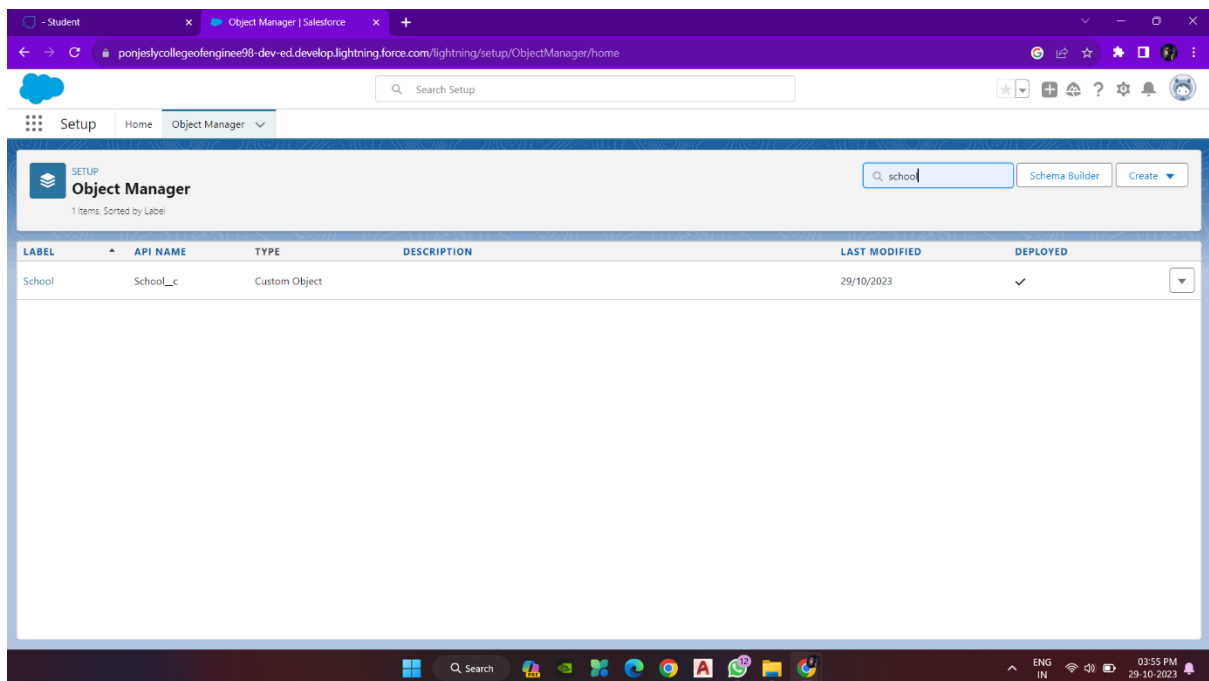
REG NO: 961820114317

NM ID: 73FCDE87A4E526CAE454F607097EA24E

## STEP 1: Create a Salesforce Account



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



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	✓

Search

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

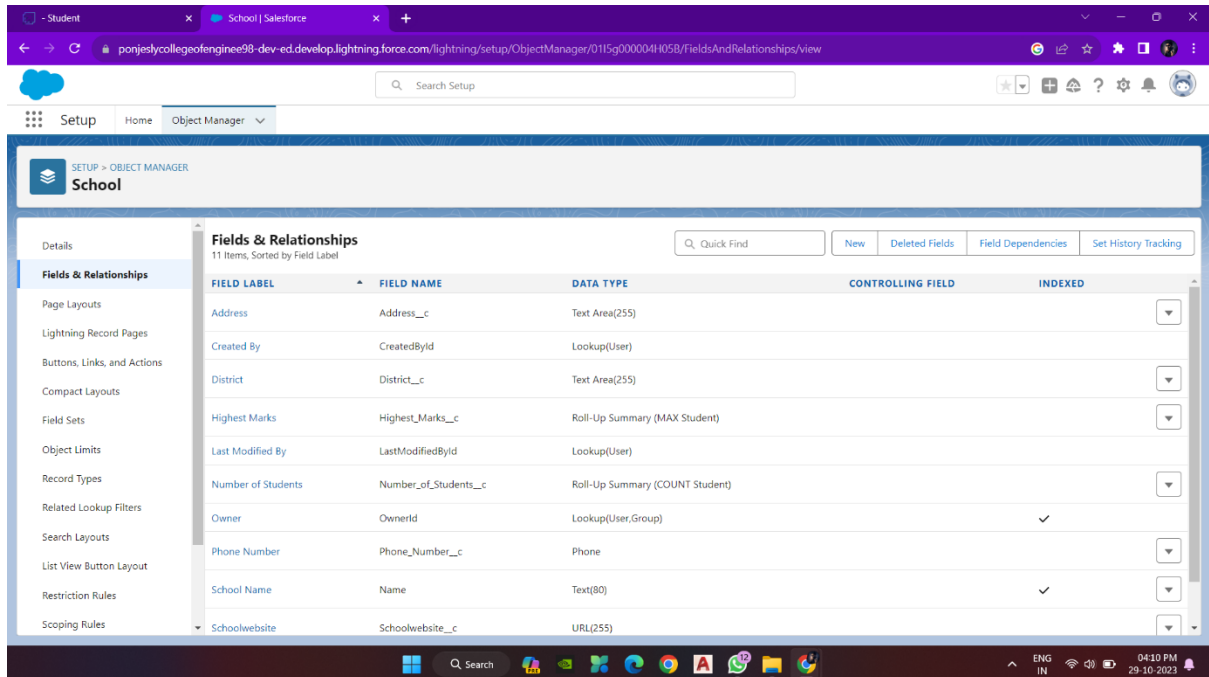
Schema Builder Create

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

Search

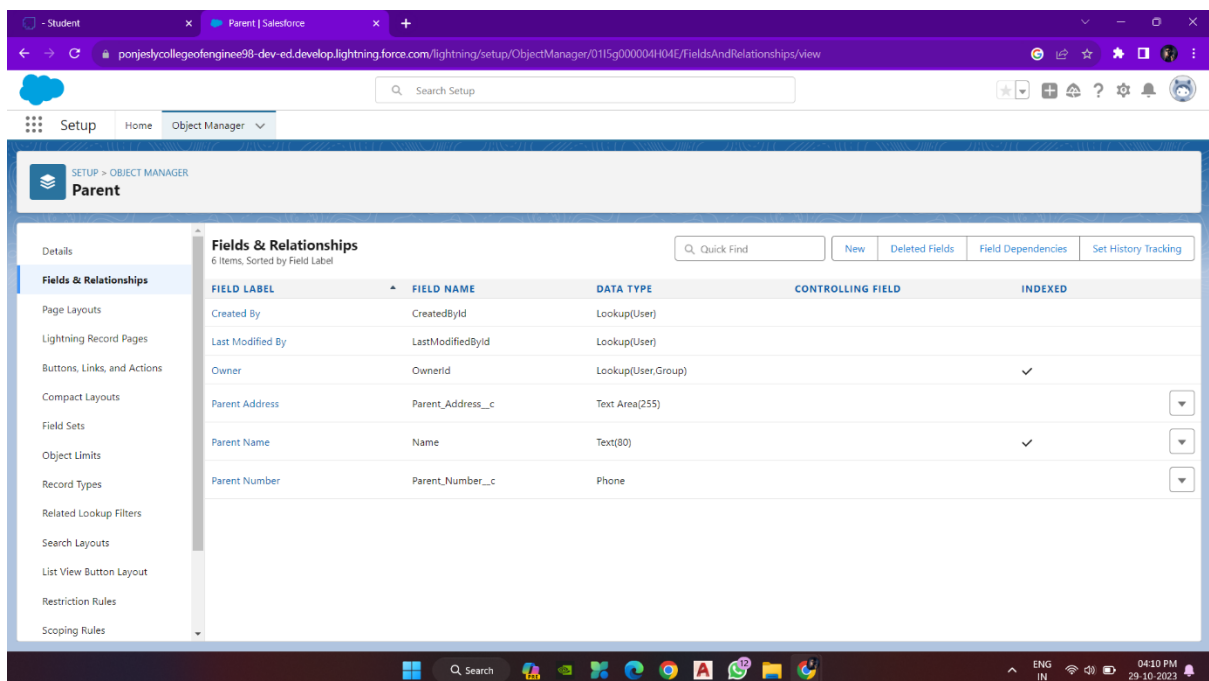
ENG IN 03:55 PM 29-10-2023

### 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 left sidebar shows the navigation menu with 'Fields & Relationships' selected. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The bottom status bar shows the system language as 'ENG IN' and the time as '04:10 PM 29-10-2023'.

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 left sidebar shows the navigation menu with 'Fields & Relationships' selected. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The bottom status bar shows the system language as 'ENG IN' and the time as '04:10 PM 29-10-2023'.

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.

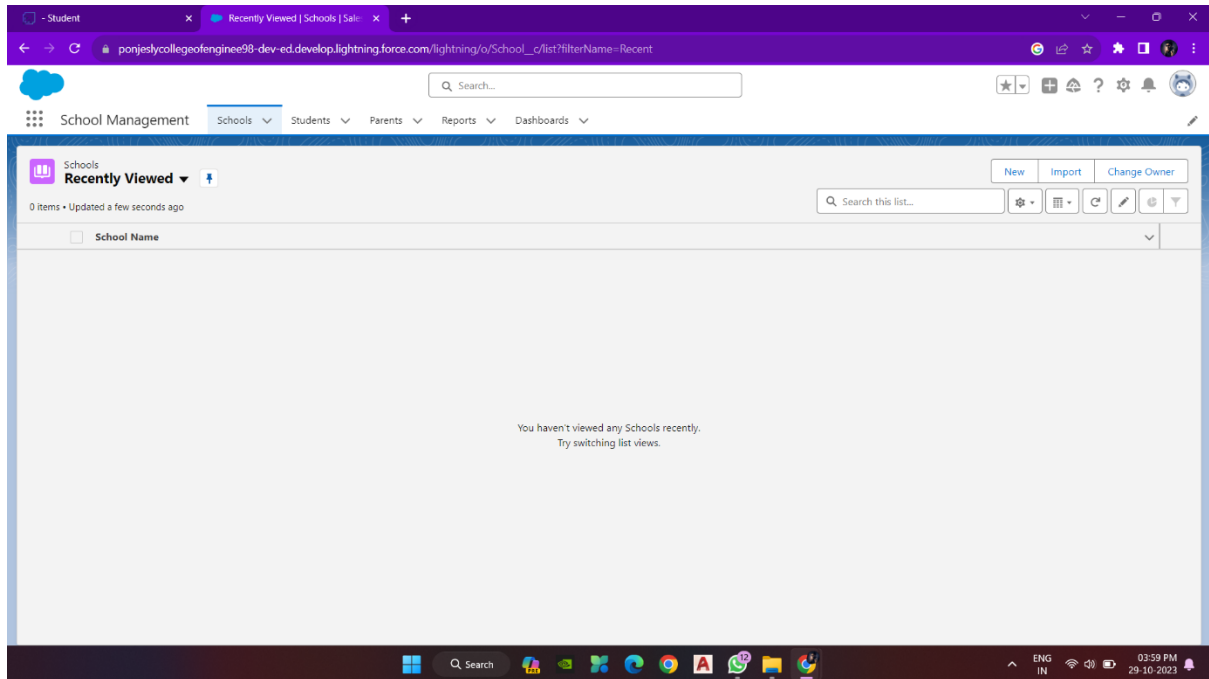
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Class	Class__c	Number(8, 2)		
Created By	CreatedById	Lookup(User)		
E-Mail	E_Mail__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Marks	Marks__c	Number(8, 2)		
Phone Number	Phone_Number__c	Phone		
Results	Results__c	Picklist		
School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

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

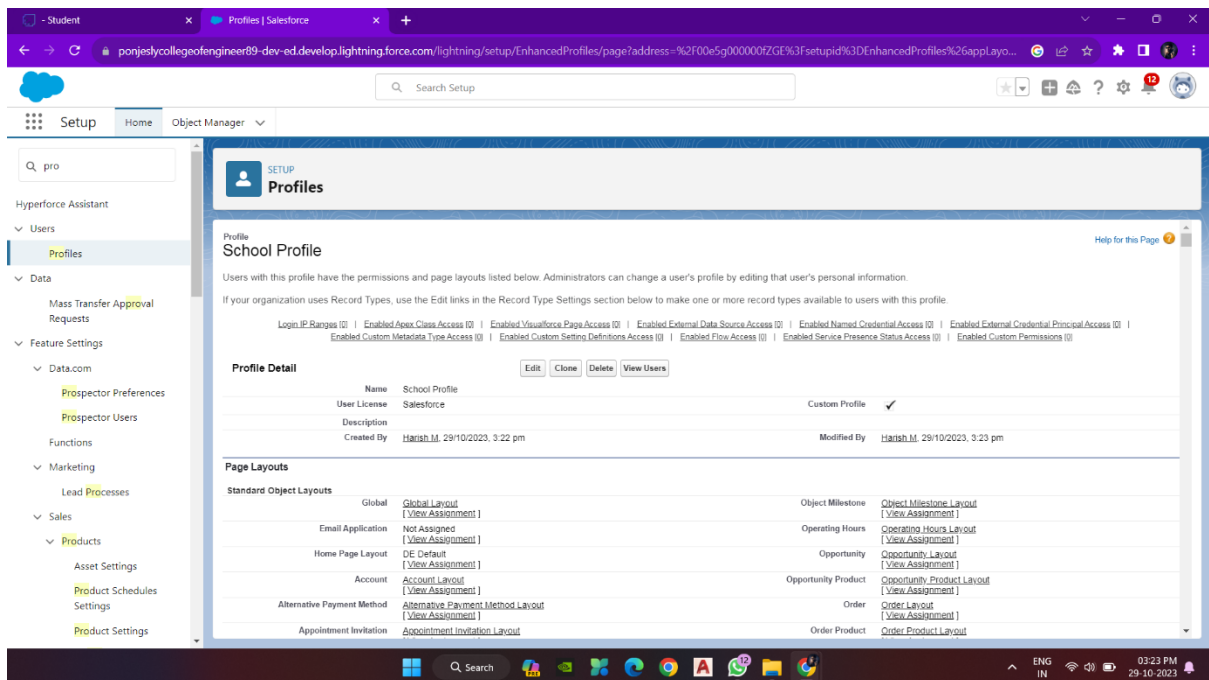
The screenshot shows the Salesforce Setup interface for the 'Custom Tabs' section. The left sidebar contains a navigation menu with options like tabs, User Interface, Rename Tabs and Labels, and Tabs. The main content area is titled 'Custom Tabs' and provides information on how to create custom tabs. It includes a table for 'Custom Object Tabs' with columns for Action, Label, Tab Style, and Description. The table lists three tabs: Parents, Schools, and Students, each with a corresponding tab style (Bank, Books, and Laptop respectively).

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

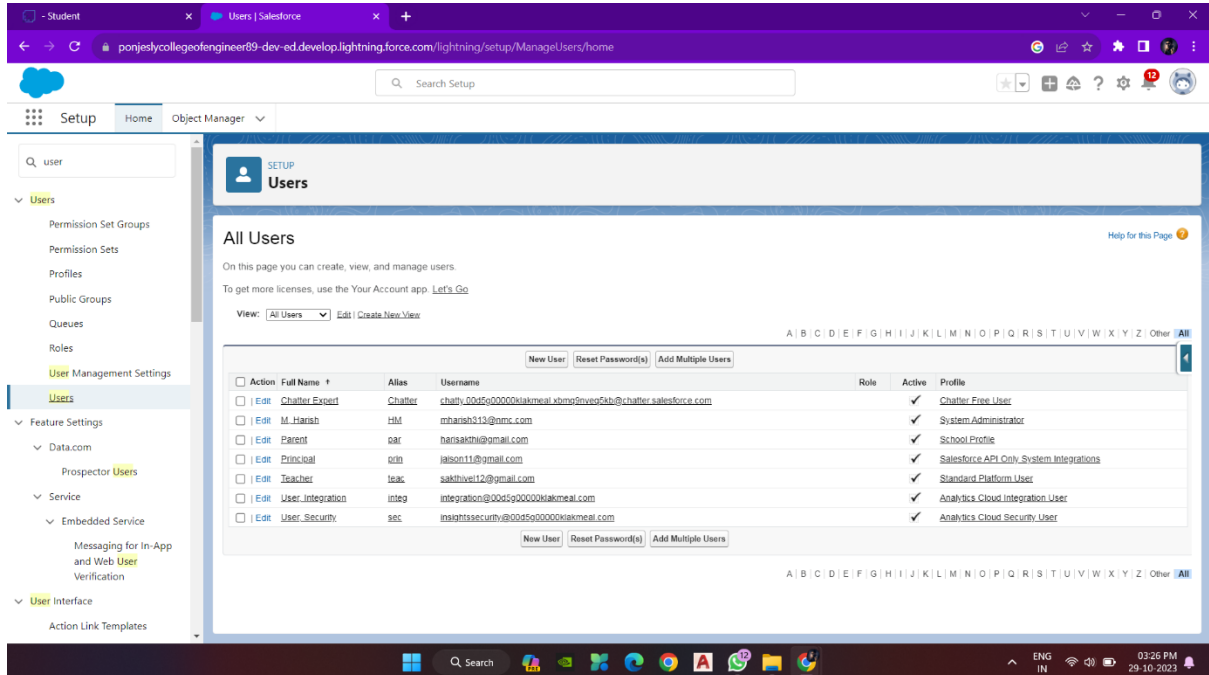
## STEP 5 : Create a Lightning App



## STEP 6 : Create the School Profile



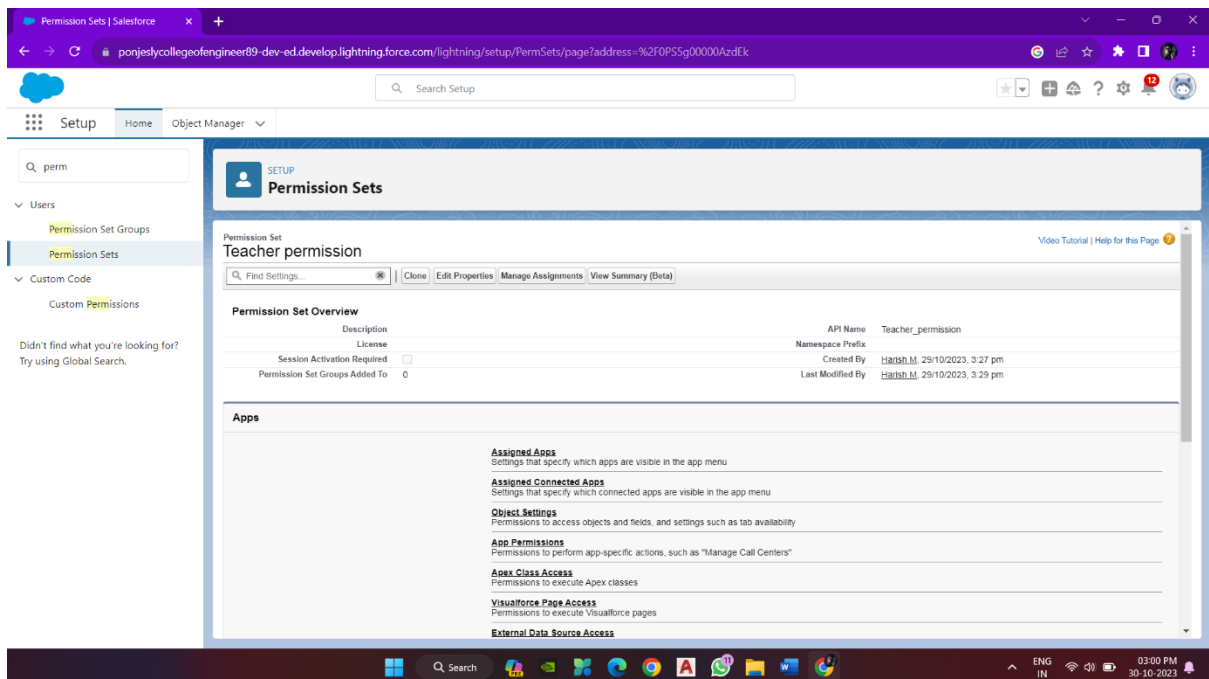
## STEP 7 : Create the Users (Teacher, Parent, Principal)



The screenshot shows the Salesforce Setup interface for the 'Users' section. The left sidebar contains a search bar and a navigation menu with categories like Users, Feature Settings, Data.com, Service, and User Interface. The main content area is titled 'All Users' and includes a table of existing users. The table has columns for Action, Full Name, Alias, Username, Role, Active status, and Profile. The users listed are Chatter Expert, M. Harish, Parent, Principal, Teacher, User Integration, and User Security. Each user has a corresponding profile listed in the 'Profile' column.

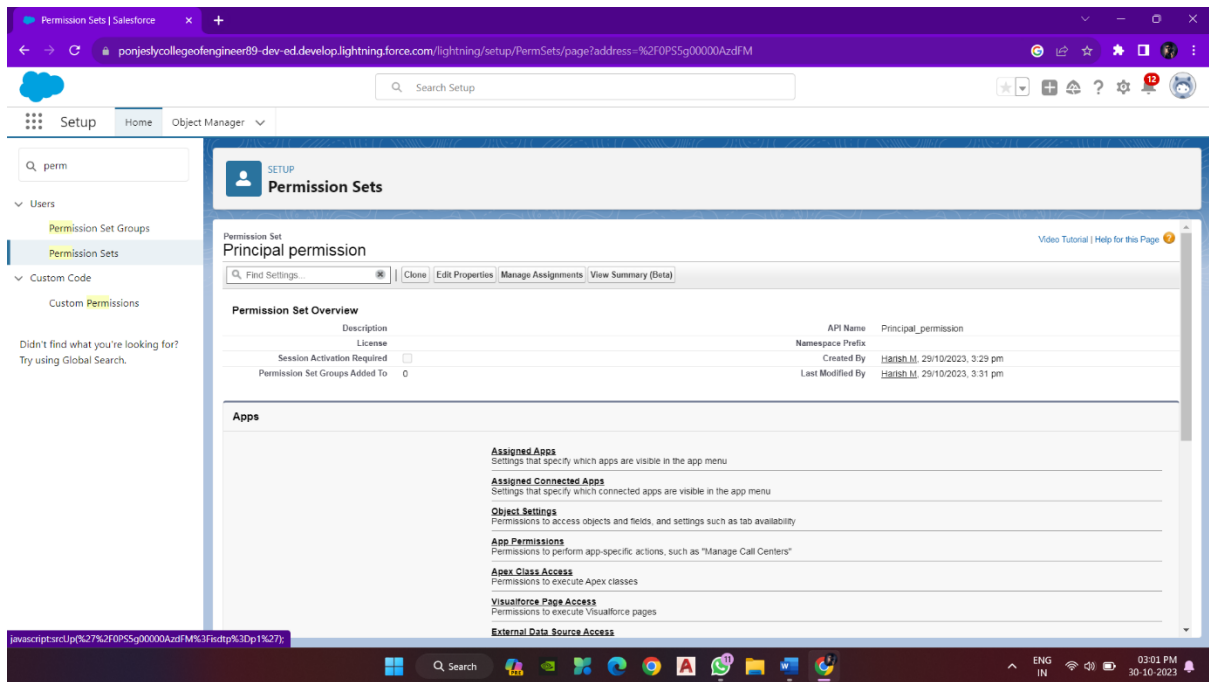
Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/>   Edit	Chatter Expert	Chatter	chatty00500000@akmeai.xmpo2nyv95xb@chatter.salesforce.com		✓	Chatter Free User
<input type="checkbox"/>   Edit	M. Harish	HM	mharish513@omc.com		✓	System Administrator
<input type="checkbox"/>   Edit	Parent	par	harishkth@gmail.com		✓	School Profile
<input type="checkbox"/>   Edit	Principal	prin	jaison11@gmail.com		✓	Salesforce API Only System Integrations
<input type="checkbox"/>   Edit	Teacher	teac	sakthivel12@gmail.com		✓	Standard Platform User
<input type="checkbox"/>   Edit	User Integration	integ	integration@00d5g00000@akmeai.com		✓	Analytics Cloud Integration User
<input type="checkbox"/>   Edit	User Security	sec	insightsecurity@00d5g00000@akmeai.com		✓	Analytics Cloud Security User

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

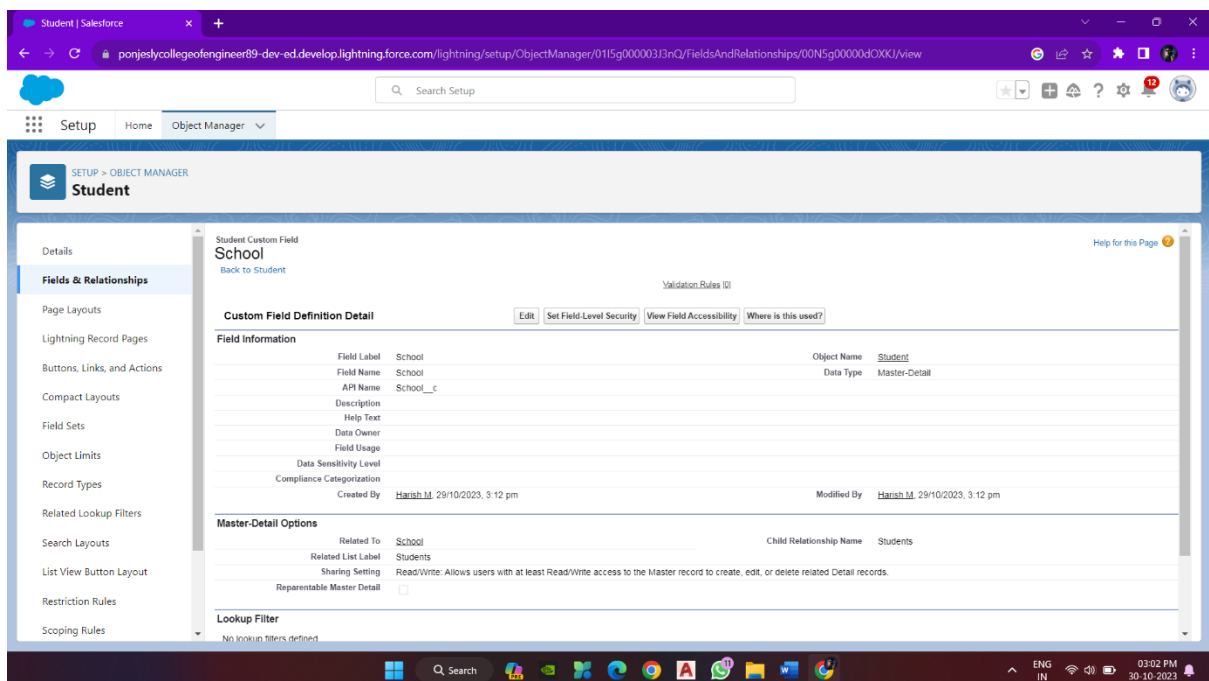


The screenshot shows the Salesforce Setup interface for the 'Permission Sets' section. The left sidebar contains a search bar and a navigation menu with categories like Users, Permission Set Groups, Custom Code, and Custom Permissions. The main content area is titled 'Permission Sets' and shows the 'Teacher permission' set. The 'Permission Set Overview' section displays details about the permission set, including its description, license, session activation required status, and creation/modification dates. The 'Apps' section lists various app permissions, including Assigned Apps, Assigned Connected Apps, Object Settings, App Permissions, Apex Class Access, Visualforce Page Access, and External Data Source Access.

API Name	Namespace Prefix	Created By	Last Modified By
Teacher_permission		Harish M. 29/10/2023, 3:27 pm	Harish M. 29/10/2023, 3:29 pm



## STEP 9 : Create Master Detail relationship





## STEP 10 : Create Records in Lightning App

The screenshot shows the Salesforce Lightning App interface. The top navigation bar includes 'School Management', 'Schools', 'Parents', 'Students', 'Reports', and 'Dashboards'. The 'Reports' section is active, displaying a list of recent reports. The table below shows the details of these 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 options: REPORTS (Recent, Created by Me, Private Reports, Public Reports, All Reports), FOLDERS (All Folders, Created by Me, Shared with Me), and FAVORITES (All Favorites).

## STEP 11 : Deleting Records

The screenshot shows the Salesforce Lightning App interface with the 'Schools' section active. A confirmation dialog box is displayed over the list of schools, asking for confirmation to delete a school.

**Delete School**

Are you sure you want to delete this School?

Buttons: Cancel, Delete

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

## 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 is open, showing the following table:

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 is open, showing the following table:

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

## STEP 13 : Create a Flow

