

Creation Of An Application For School Management

Introduction:

The project aim is to provide real-time knowledge for all the students who have basic knowledge of Salesforce and Looking for a real-time project. This project will also help those professionals who are in cross-technology and want to switch to Salesforce. With the help of this project they will gain knowledge and can include it into their resume as well

Creating Developer Org.

Are you new to Salesforce? Not sure exactly what it is, or how to use it? Don't know where you should start on your learning journey? If you've answered yes to any of these questions, then you're in the right place. This module is for you.

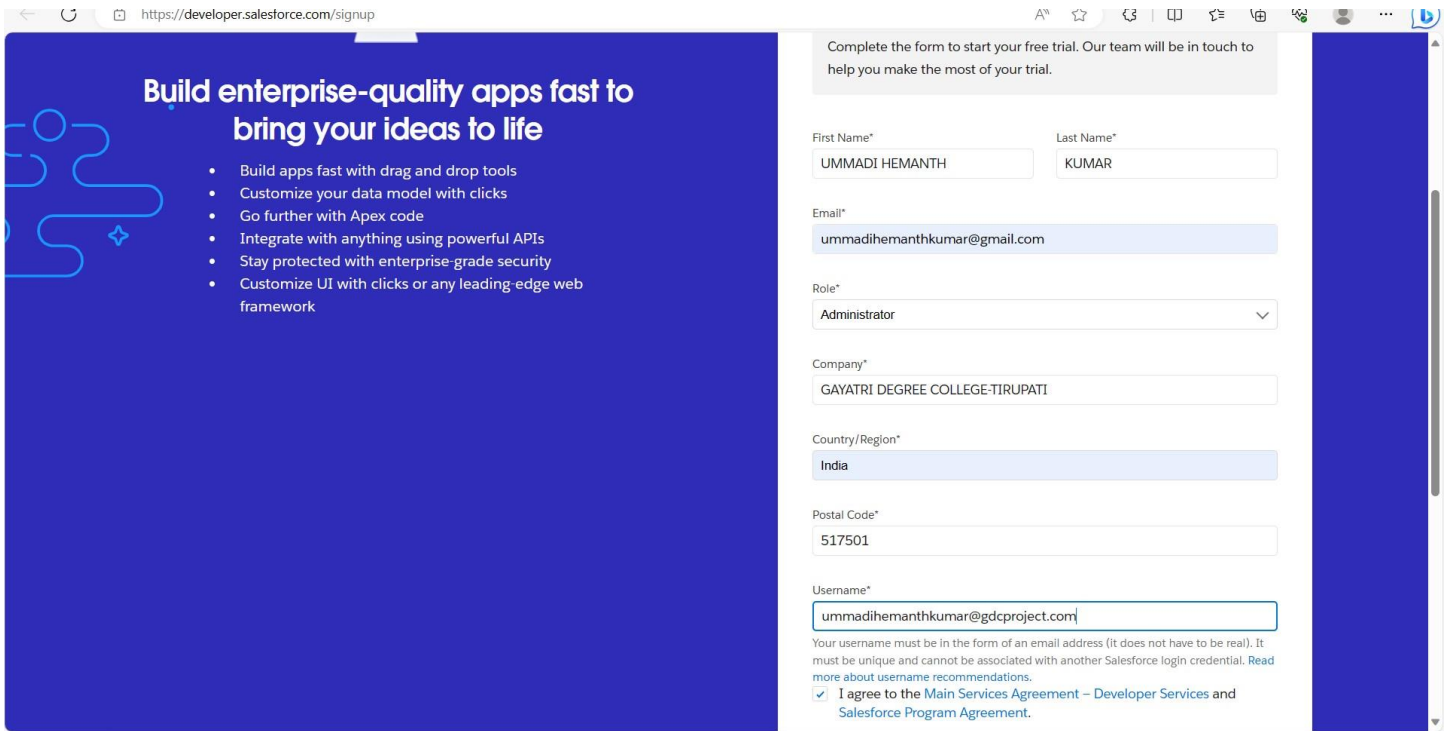
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Click on sign up.

On the sign up form, enter the following details

- a. First name & Last name: ANAKAPALLI NOOKESH
- b. Email: nookeshanakapalli14@gmail.com
- c. Role - administrator
- d. Company - dr. lankapalli bullayya degree and pg college
- e. Country - India
- f. Postal Code 531001
- g. Username- nookesh@nookesh.com



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First Name* UMMADI HEMANTH

Last Name* KUMAR

Email* ummadihemanthkumar@gmail.com

Role* Administrator

Company* GAYATRI DEGREE COLLEGE-TIRUPATI

Country/Region* India

Postal Code* 517501

Username* ummadihemanthkumar@gdcproject.com

Your username must be in the form of an email address (it does not have to be real). It must be unique and cannot be associated with another Salesforce login credential. [Read more about username recommendations.](#)

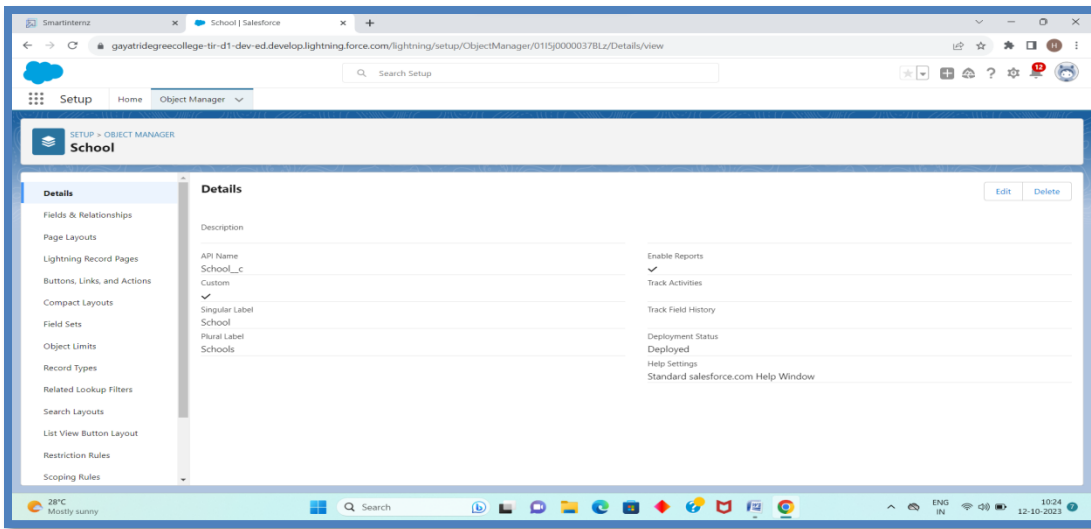
☒ I agree to the Main Services Agreement – Developer Services and Salesforce Program Agreement.

Click on sign up after filling these.

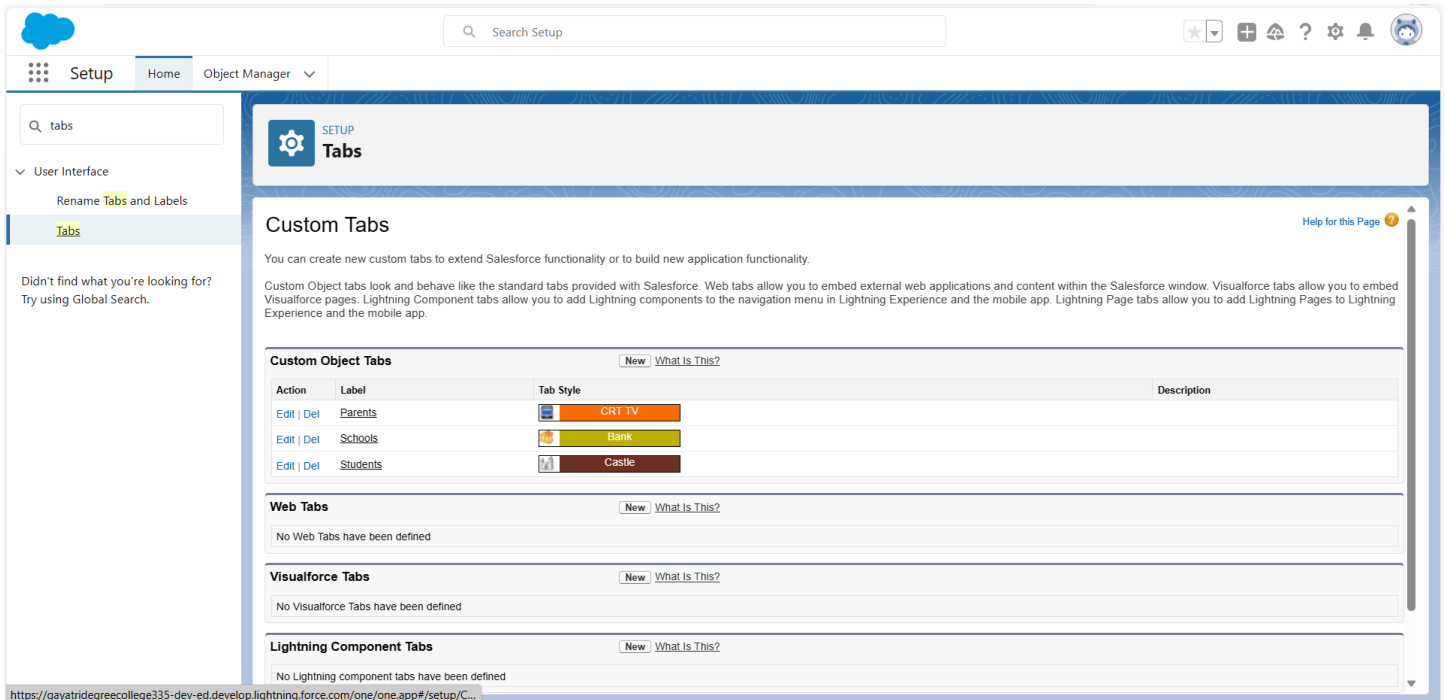
Milestone-1: Object

Create School Management:

1. Click on the gear icon and then select Setup.
2. Click on the object manager tab just beside the home tab.
3. After the above steps, have a look on the extreme right you will find a Create Dropdown click on that and select Custom Object.
4. On the Custom Object Definition page, create the object as follows:
5. Label: School
6. Plural Label: Schools
7. Record Name: School Name
8. Check the Allow Reports checkbox
9. Check the Allow Search checkbox
10. Click Save.



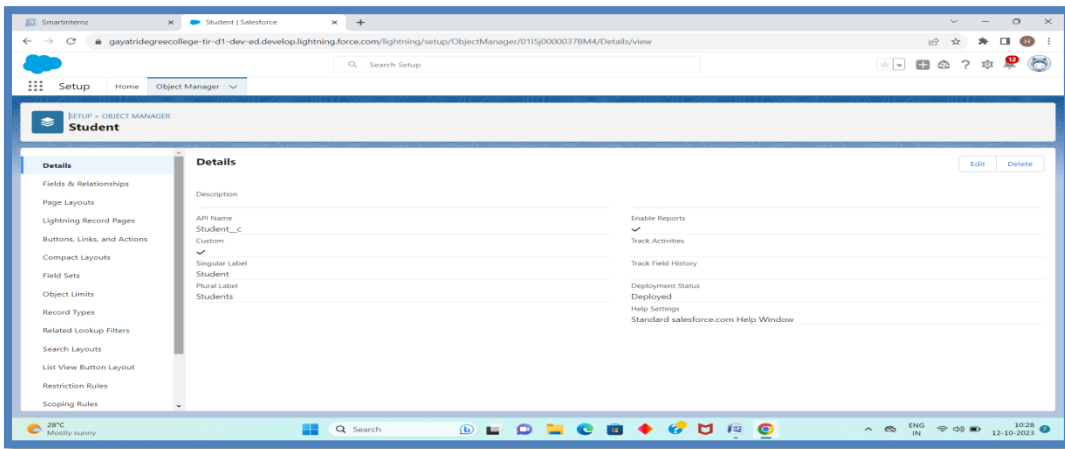
Now create a custom tab. Click the Home tab.



Create Student Object:

1. Click on the gear icon and then select Setup.
2. Click on the object manager tab just beside the home tab

3. After the above steps, have a look on the extreme right you will find a Create Dropdown click on that and select Custom Object.
- On the Custom Object Definition page, create the object as follows:
 - Label: Student
 - Plural Label: Students
 - Record Name: Student Name
 - Check the Allow Reports checkbox
 - Check the Allow Search checkbox
 - Click Save.



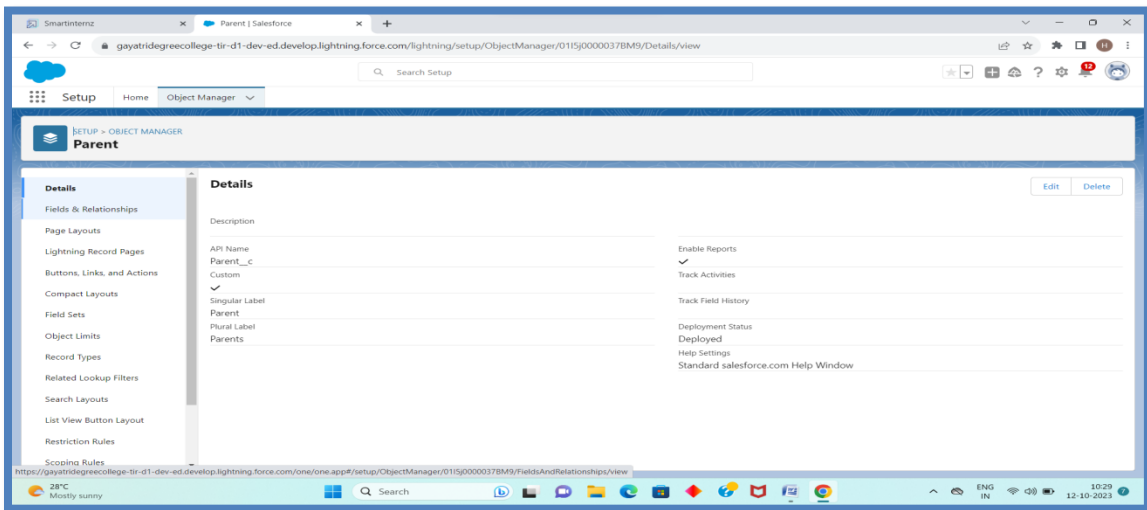
Now create a custom tab. Click the Home tab, enter Tabs in Quick Find and select Tabs. Under Custom Object Tabs, click New.

1. For Object, select Students.
2. For Tab Style, select any icon.
3. Leave all defaults as is. Click Next, Next, and Save.

Create Parent Object:

1. Click on the object manager tab just beside the home tab.
 2. After the above steps, have a look on the extreme right you will find a Create Dropdown click on that and select Custom Object.
- On the Custom Object Definition page, create the object as follows:
 - Label: Parent
 - Plural Label: Parents
 - Record Name: Parent Name
 - Check the Allow Reports checkbox
 - Check the Allow Search checkbox

- Click Save



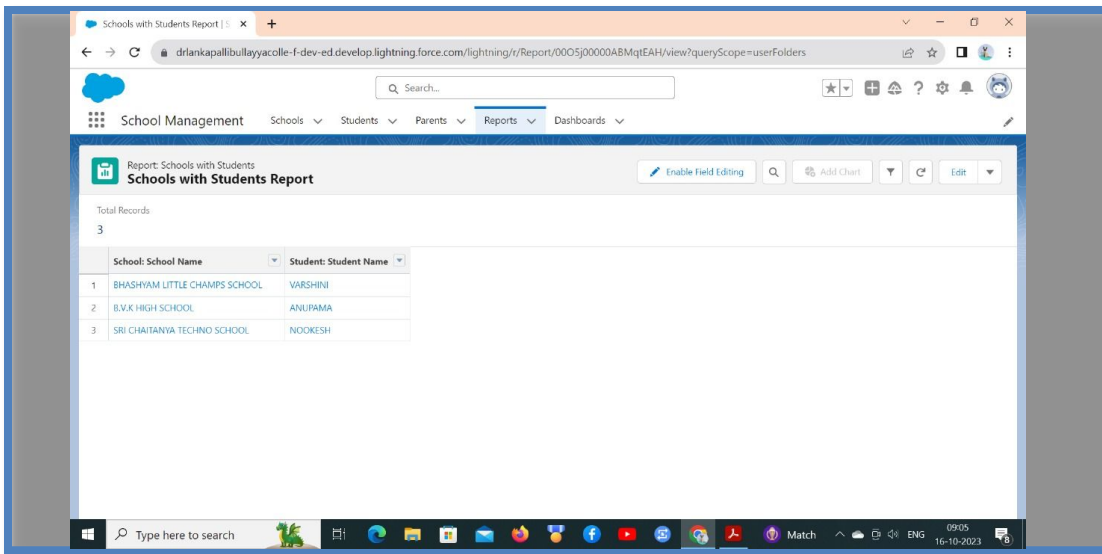
Now create a custom tab. Click the Home tab, enter Tabs in Quick Find and select Tabs. Under Custom Object Tabs, click New.

1. For Object, select Parents.
2. For Tab Style, select any icon.
3. Leave all defaults as is. Click Next, Next, and Save.

Milestone-2: Lightning App

Create The School Management App:

1. From Setup, enter App Manager in the Quick Find and select App Manager.
2. Click New Lightning App.
3. Enter School Management as the App Name, then click Next
4. Under App Options, leave the default selections and click Next.
5. Under Utility Items, leave as is and click Next.
6. From Available Items, select Schools, Students, Parents, Reports, and Dashboards and move them to Selected Items. Click Next.
7. From Available Profiles, select System Administrator and move it to Selected Profiles. Click Save & Finish.



To verify your changes, click the App Launcher, type School Management and select the School Management app.

Note:

App Launcher-Displays available apps.

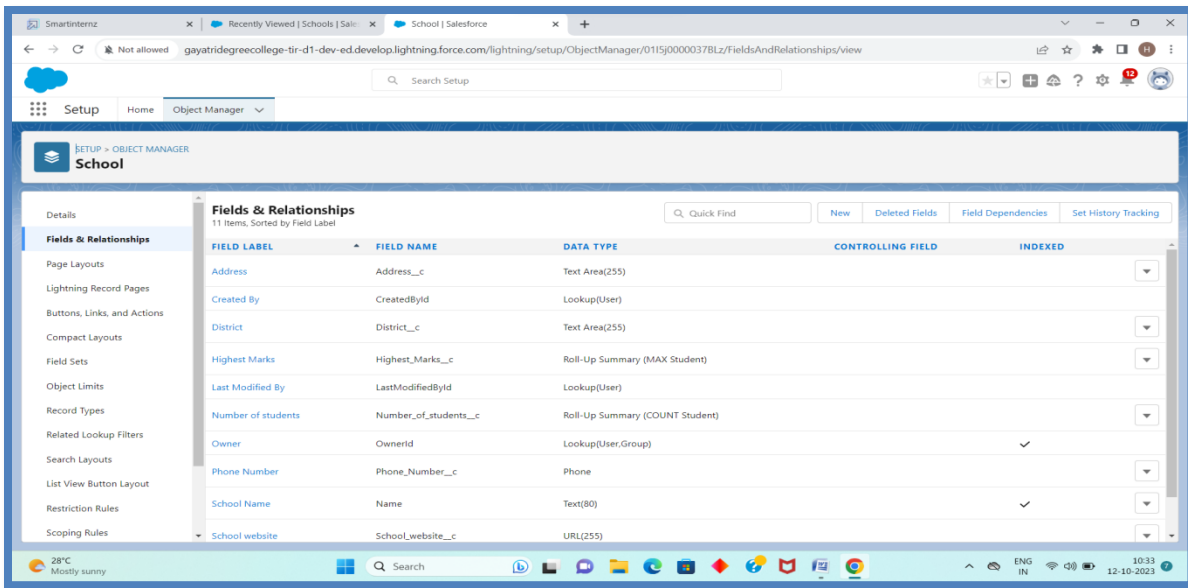
App Name-Displays the current selected app.

Navigation menu -Displays the tabs available inside the app.

Milestone-3: Fields And Relationship

Creation Of Fields For The School Objects

1. Click the gear icon and select Setup. This launches Setup in a new tab.
2. Click the Object Manager tab next to Home.
3. Select School.
4. Select Fields & Relationships from the left navigation
5. Click New
6. Select the Text Area as the Data Type, click Next.
7. For Field Label, enter Address.
8. Click Next, Next, then Save & New.
9. Follow steps 1 to 3 and create two more Text type field - District & State.
10. Create URL type field & give School website as the field label.



Now let's create the other fields and we must choose the data types of the fields carefully. Let's have a look at it.

For example, a phone number is a number field. For that we need to select the phone as data type.

Let's see this

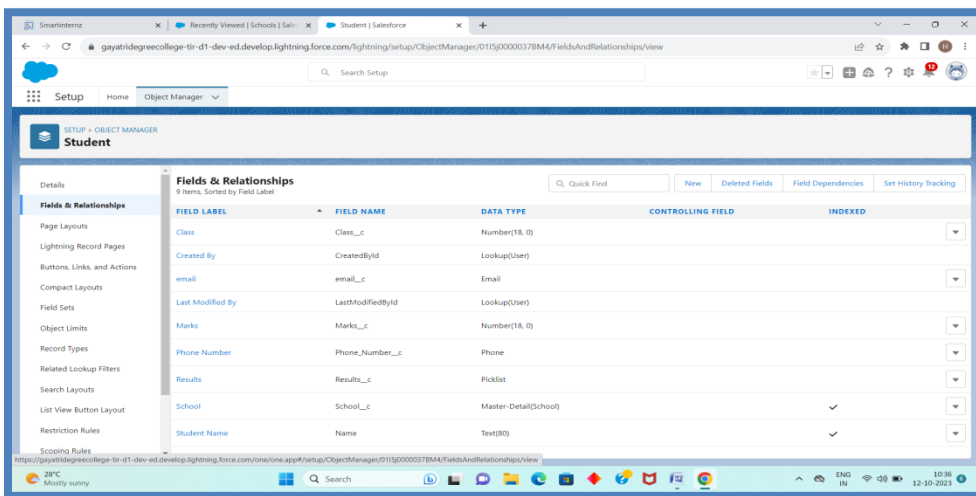
Note- Follow above steps 1 to 5 to create field and then follow below steps

1. Select the Phone as the Data Type, then click Next.
2. For Field Label, enter Phone Number.
3. Click Next, Next, then Save & New.

Creation Of Fields For The Student Objects

Note- Follow above steps 1 to 5 to create field and then follow below steps

1. Select the Phone as the Data Type, then click Next.
2. For Field Label, enter Phone Number.
3. Click Next, Next, then Save & New



Let's create a master-detail relationship with School object

Note- Follow above steps 1 to 5 to create field and then follow below steps

1. Select Master-Detail Relationship as the Data Type and click Next.
2. For Related to, enter School.
3. Click Next.
4. For Field Label, enter School.
5. Click Next, Next, Next and Save.

The screenshot shows the Salesforce Setup - Object Manager page for the Student object. The left sidebar contains navigation links: 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 'Student Custom Field School' and includes a 'Back to Student' link. It features tabs for 'Edit', 'Set Field Level Security', 'View Field Accessibility', and 'Where is this used?'. The 'Field Information' section displays the following details: Field Label (School), Field Name (School), API Name (School__c), Description, Help Text, Data Owner, Field Usage, Data Sensitivity Level, and Compliance Categorization. The 'Master-Detail Options' section shows 'Related To' as School, 'Related List Label' as Students, 'Child Relationship Name' as Students, and 'Read/Write' access. The 'Lookup Filter' section indicates 'No lookup filters defined'.

Let's create a Pick-List field:

Note- Follow above steps 1 to 5 to create field and then follow below steps

1. From Setup, click Object Manager and select Student.
2. Click Fields & Relationships, then New.
3. Select Picklist as the Data Type and click Next.
4. For Field Label enter Results.
5. Select Enter values, with each value separated by a new line and enter these values:
6. Pass
7. Fail
8. Click Next, Next, then Save & New

Let's create a Number field:

Note- Follow above steps 1 to 5 to create field and then follow below steps

1. Select the Number as the Data Type, then click Next.
2. For Field Label, enter Class.
3. Click Next, Next, then Save & New
4. Follow steps 1 through 3 and create one more number field with Marks as the field labels.

Let's create Roll-up summary fields on School Object to calculate the number of students

1. Click gear icon Select Setup, This launches Setup in a new tab.
2. click Object Manager
3. Select School.
4. Click Fields & Relationships
5. Click New.
6. Select the Roll-up summary field as data type
7. Enter the field label as Number of students
8. Click Next
9. Then select the master object summarized as students
10. Select count as roll-up and then click Next, Next and save.

The screenshot displays the Salesforce Setup interface for configuring a roll-up summary field. The breadcrumb trail is 'SETUP > OBJECT MANAGER > School'. The left sidebar shows the 'Fields & Relationships' section selected. The main content area is titled 'School Custom Field: Number of students' with a 'Back to School' link. Below this is the '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 lists details for the 'Number of students' field, including its name, API name, and object. The 'Roll-Up Summary Options' section shows the field is configured as a 'Roll-Up Summary' with a 'Summarized Object' of 'Student' and a 'Summary Type' of 'COUNT'.

Field Information	
Field Label	Number of students
Field Name	Number_of_students
API Name	Number_of_students__c
Description	
Help Text	
Data Owner	
Field Usage	
Data Sensitivity Level	
Compliance Categorization	
Created By	UMMADI HERMANTH KUMAR, 09/10/2023, 12:17 pm
Modified By	UMMADI HERMANTH KUMAR, 09/10/2023, 12:17 pm

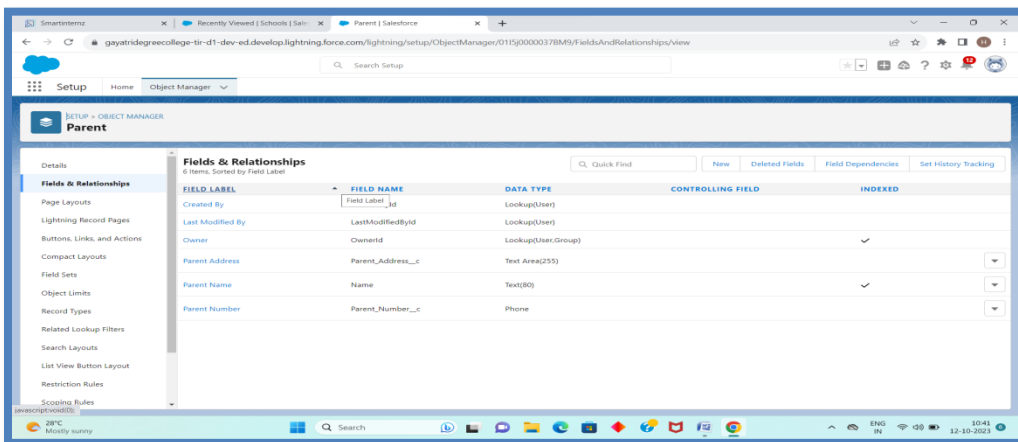
Roll-Up Summary Options	
Data Type	Roll-Up Summary
Summarized Object	Student
Filter Criteria	
Summary Type	COUNT

Create one more rollup summary field-

- From Setup, click Object Manager and select School.
- Click Fields & Relationships, then New.
- Select the Roll-up summary field as data type
- Enter the field label as Highest Marks
- Click Next
- Then select the master object summarized as students and then select Max as roll-up and then select Marks as field to aggregate.
- click Next, Next and save.

Creation Of Fields For The Parent Objects

- Select the Text Area as the Data Type, then click Next.
- For Field Label, enter Parent Address.
- Click Next, Next, then Save & New.
- Select the Phone as the Data Type, then click Next.
- For Field Label, enter Parent Number.
- Click Next, Next, then Save & New.

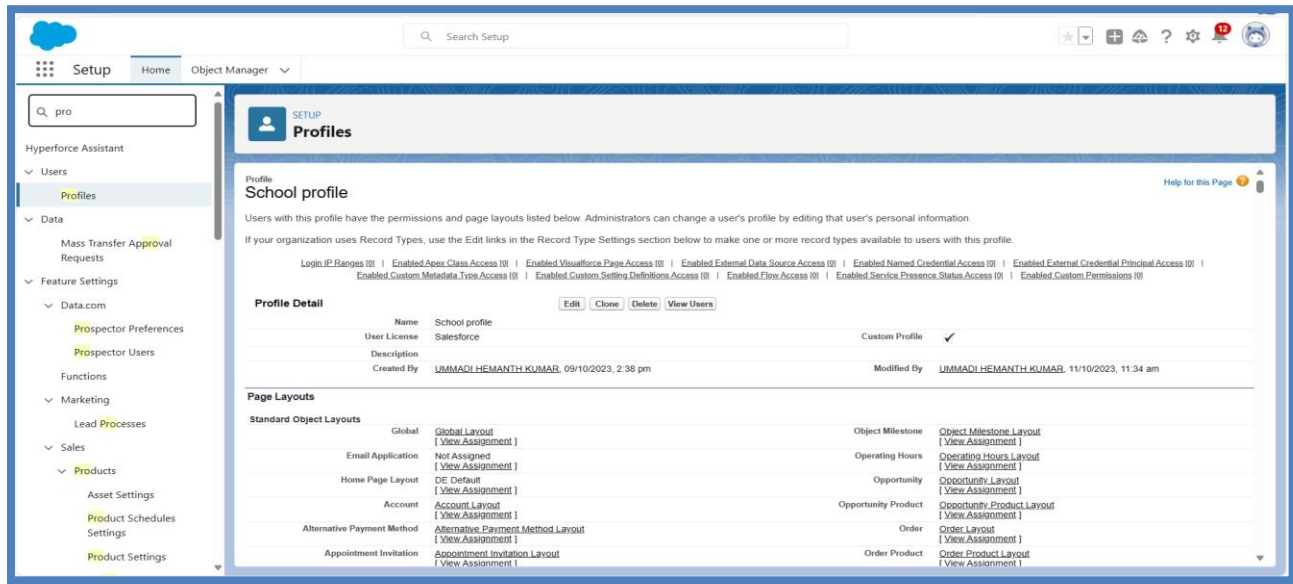


Milestone – 04: Profile

Creation On Profile:

- Give view all From Setup enter Profiles in the Quick Find box.

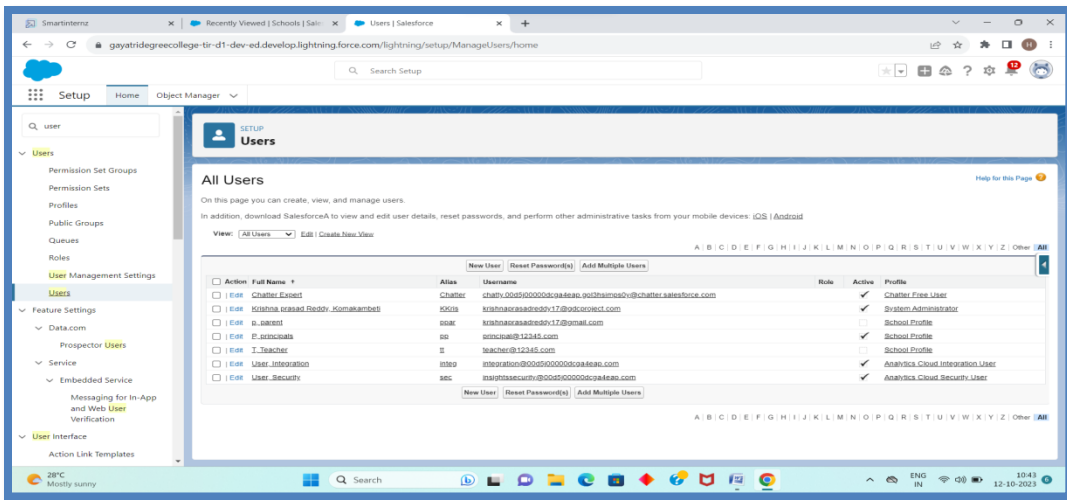
- Select Profiles.
- Click new, From the list of profiles, find Standard User (profile to clone)
- For Profile Name, enter School Profile
- Click Save.
- While still on the School profile page, then click Edit.
- Scroll down to Custom Object Permissions and access permissions.



Milestone – 05 Users:

Creating A User:

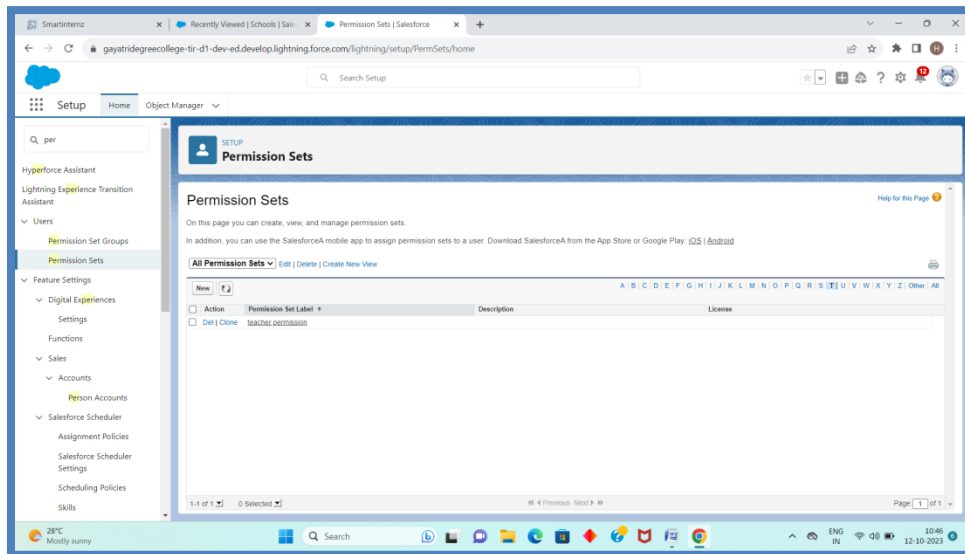
- From Setup, in the Quick Find box, enter Users.
- Select Users.
- Click New User.
- Enter the user's name Parents and (Your) email address and a unique username in the form of an email address. By default, the username is the same as the email address.
- Select a User License as salesforce.
- NOTE- As Salesforce license can only be used by 2 Users at a time in Dev Org, so If you don't find salesforce license then deactivate a user who has salesforce license or change the license type from Salesforce to any other.
- Select a profile as a School profile.
- Check Generate new password and notify the user immediately to have the user's login name and a temporary password emailed to your email.
- Similarly follow the above steps and create 2 users as Teachers and principals.



Milestone – 06: Permission Sets

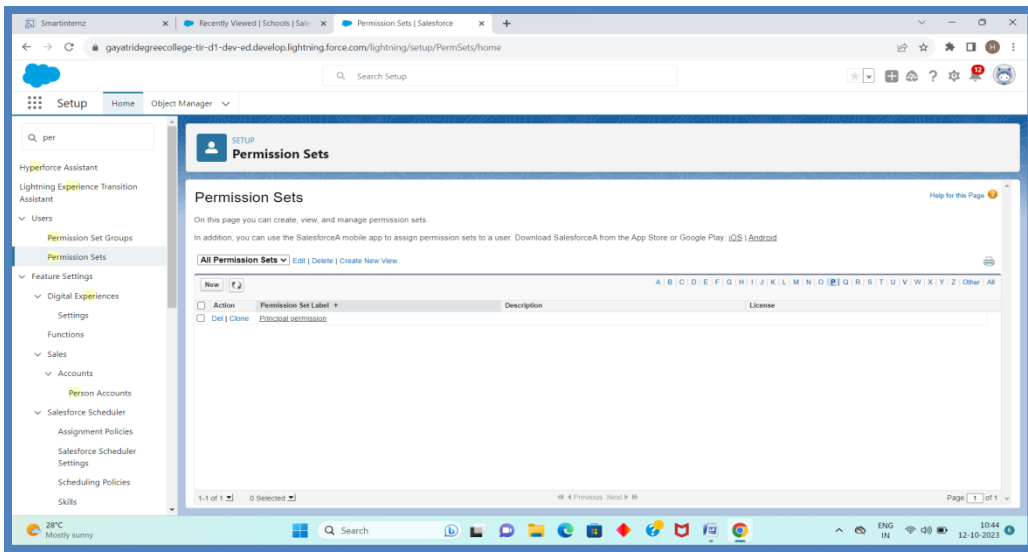
Permission Sets 1:

- From Setup, enter Permission Sets in the Quick Find box, then select Permission Sets.
- Click New.
- Give the name of the Permission set name as teacher permission.
- Under the object settings give the view create and edit permissions to all 3 custom objects (By click open the object)
- Click on manage assignment
- Click on add assignment.
- Click on Teacher (user), Next, Assign.



Permission Sets 2:

- From Setup, enter Permission Sets in the Quick Find box, then select Permission Sets.
- Click New.
- Give the name of the Permission set name as Principal permission and then under the object settings give all permissions for the all 3 custom objects and assign them to the Principal user.



Milestone – 07: User Adoption

Create Record (School)

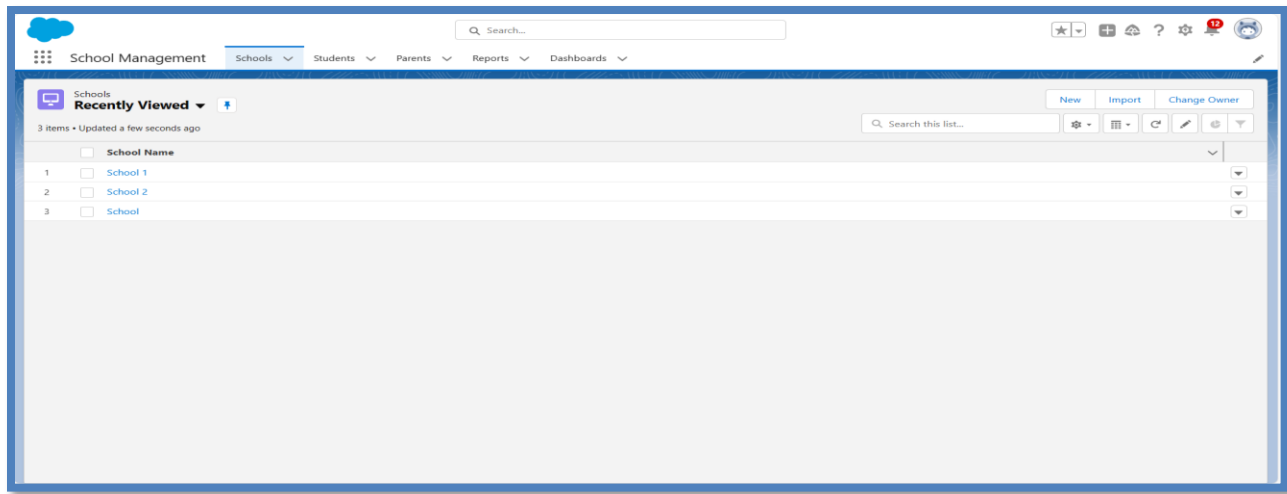
- Click on App Launcher on left side of screen.
- Search School Management App & click on it.
- Click on Schools tab.
- Click new button
- Fill all School record details.
- Click on Save Button

View Record (School)

- Click on App Launcher on left side of screen.
- Search School Management App & click on it.
- Click on Schools Tab.
- Click on any record name. you can see the details of the School.

Delete Record (School)

- Click on App Launcher on left side of screen.
- Search School Management App & click on it.
- Click on Schools Tab.
- Click on Arrow at right hand side on that Particular record.
- Click delete and delete again.



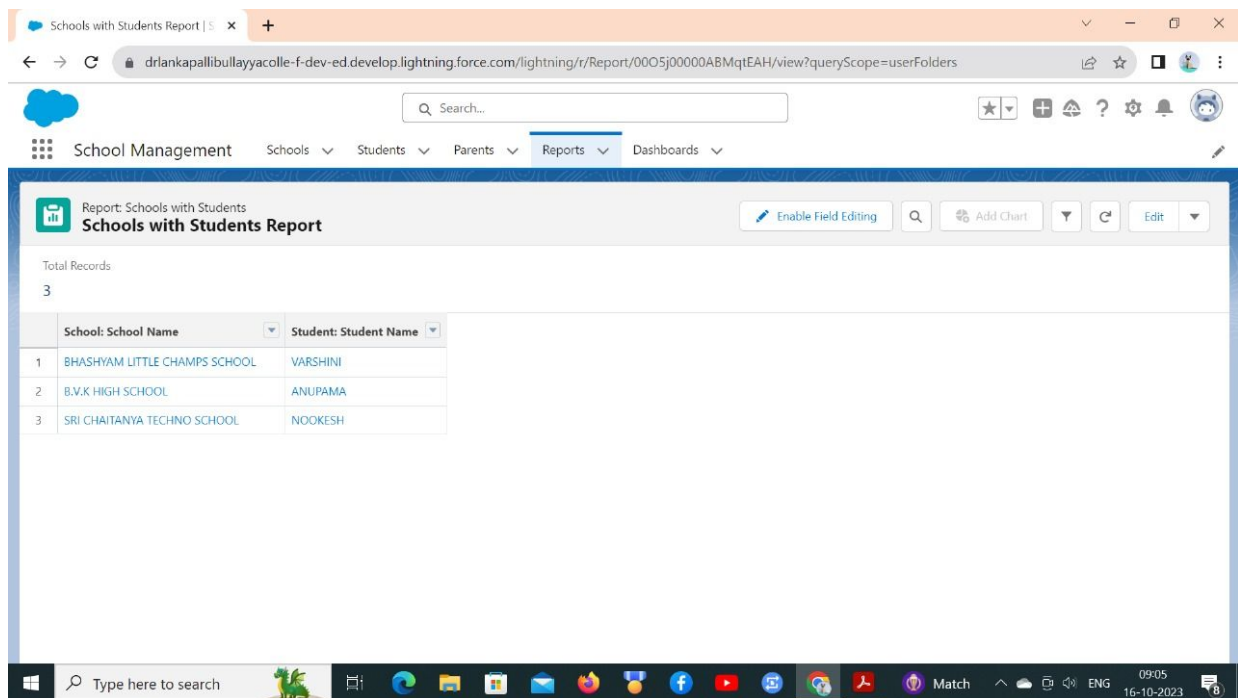
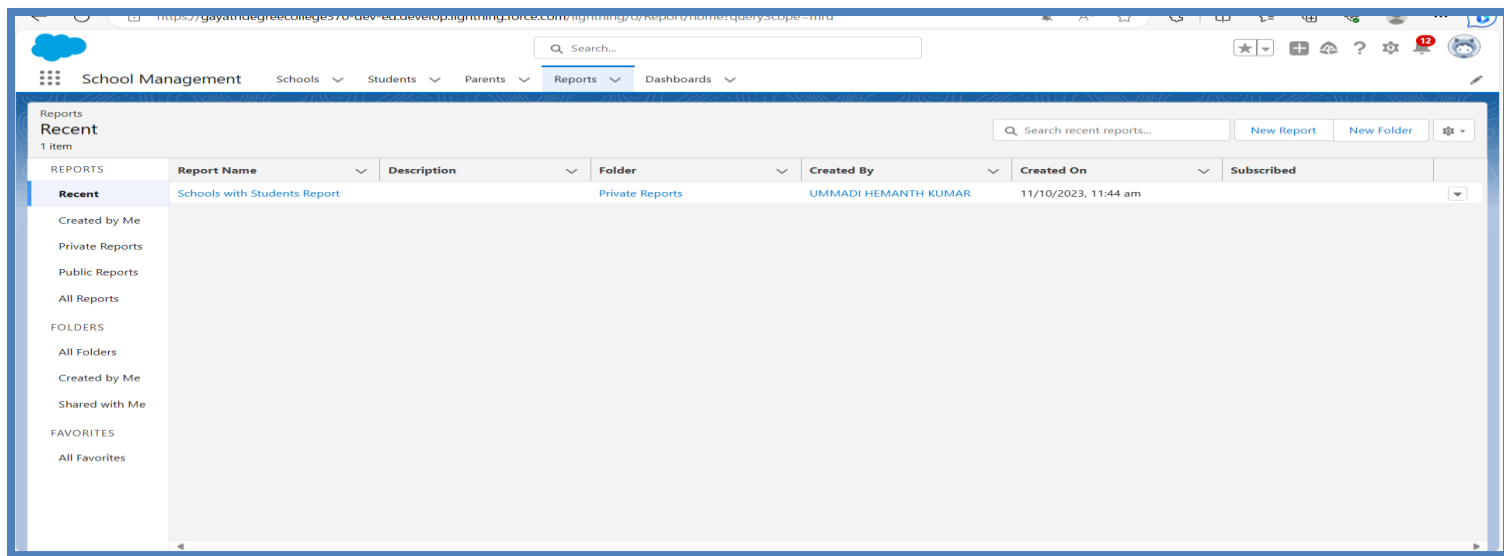
Milestone – 08: Reports

Create Report

- In School Management App click Reports tab.
- Click New Report.
- Select the report type as School with students and parents for the report.
- Click start report.
- Customize your report, then save and run
- Give report name – Schools with Students Report
- Click Save
- NOTE: In this report you can see your all record of the object you selected for reporting (What you Selects in “Select a report type option”).

View Report

- Click on App Launcher on left side of screen.
- Search School Management App & click on it.
- Click on Reports Tab.
- Click on School with Students report and see records



THE END

