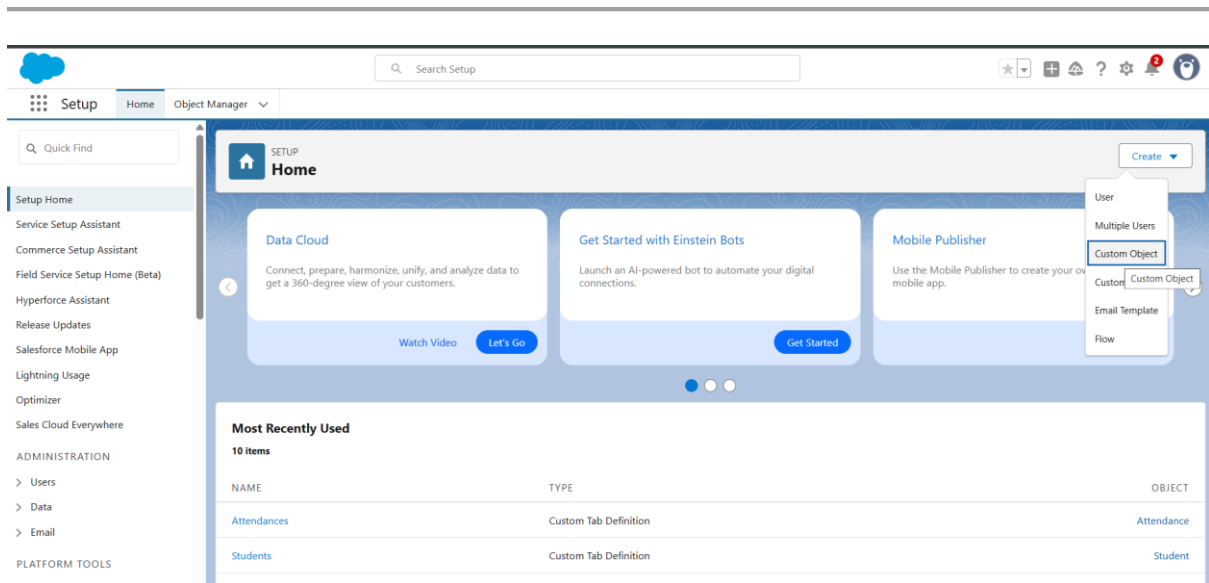# Student Attendance System in Salesforce Lightning

STEP 1: Create Custom Object – Student

Navigation: Setup → Object Manager → Create → Custom Object

Configuration:

- **Label**: Student
- **Plural Label**: Students
- **Record Name**: Student Name (Text)
- Allow Reports
- Allow Activities

Save the object.

STEP 2: Add Fields to Student

Navigation: Object Manager → Student → Fields & Relationships → New

Field Label	Type	Notes
Roll Number	Text	Unique ID for the student
Class	Picklist	FE, SE, TE, BE
Email	Email	For communication

Fields & Relationships
7 Items, Sorted by Field Label

Quick Find | New | Deleted Fields | Field Dependencies | Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Class	Class__c	Picklist			▾
Created By	CreatedById	Lookup(User)			
Email	Email__c	Email			▾
Last Modified By	LastModifiedById	Lookup(User)			
Owner	OwnerId	Lookup(User,Group)		✓	
Roll	Roll__c	Text(10)			▾
Student Name	Name	Text(80)		✓	▾

STEP 3: Create Custom Object – Attendance

Navigation: Object Manager → Create → Custom Object

Configuration:

- **Label**: Attendance
- **Plural Label**: Attendances
- **Record Name**: Attendance Record (Auto Number)
  - Format: ATT-{0000}
- Allow Reports
- Allow Activities

Save the object.

STEP 4: Add Fields to Attendance

Navigation: Object Manager → Attendance → Fields & Relationships → New

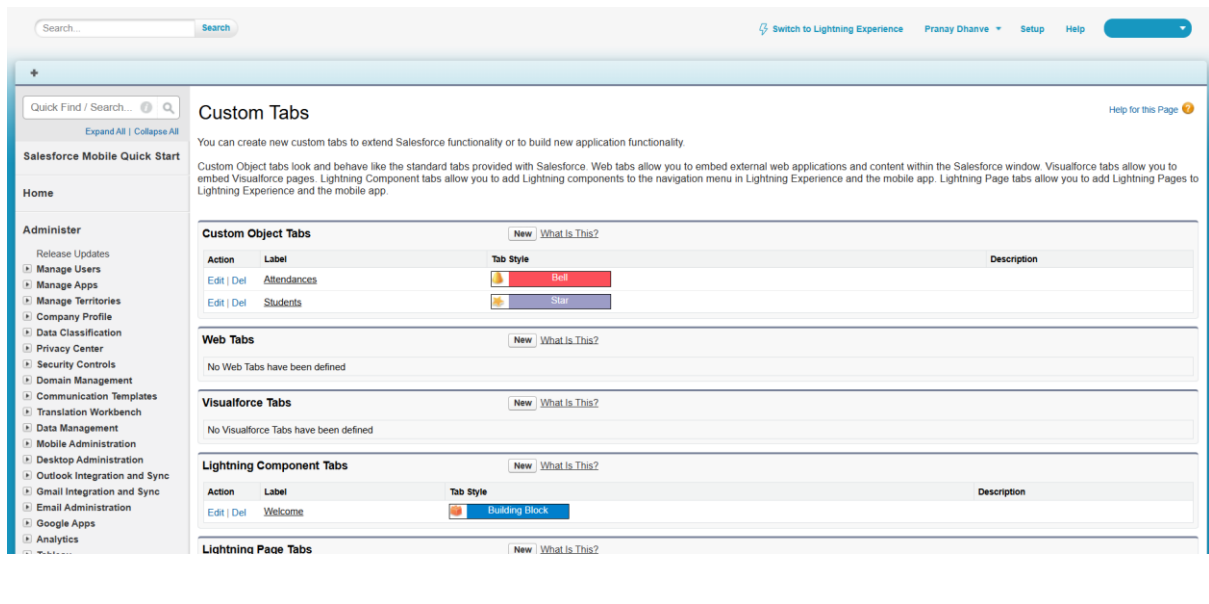| Field Label	Type	Notes
Date	Date	Date of attendance
Status	Picklist	Present, Absent, Late
Remarks	Text Area	Optional notes
Student	Lookup	Lookup to the Student object

STEP 5: Create Tabs for Navigation

Navigation: Setup → Tabs → New Custom Object Tab

Create two tabs:

1. **Student**

2. **Attendance**

Choose any icons → Save.

STEP 6: Create Quick Action – "Mark Attendance" on Student

Navigation: Object Manager → Student → Buttons, Links, and Actions → New Action

Setup:

- **Action Type**: Create a Record

- **Target Object**: Attendance

- **Label**: Mark Attendance

Save

STEP 7: Set Predefined Field Value in Action

Still in Action Settings:

1. Scroll to **Predefined Field Values**

2. Click **New**

o **Field**: Student (lookup field in Attendance)

o **Value / Formula**: {!Student__c.Id}

Save

STEP 8: Add Fields to the Action Layout

In Action Layout:

- Add:

  o Date

  o Status

  o Remarks

- Save Layout

STEP 9: Add "Mark Attendance" to Student Layout

Navigation: Object Manager → Student → Page Layouts → Student Layout

1. Scroll to **Mobile & Lightning Actions**
2. Drag **Mark Attendance** into the section
3. Save Layout

STEP 10: Create the App – Student Attendance

Navigation: Setup → App Manager → New Lightning App

Steps:

1. **App Name**: Student Attendance

2. **Standard Navigation**

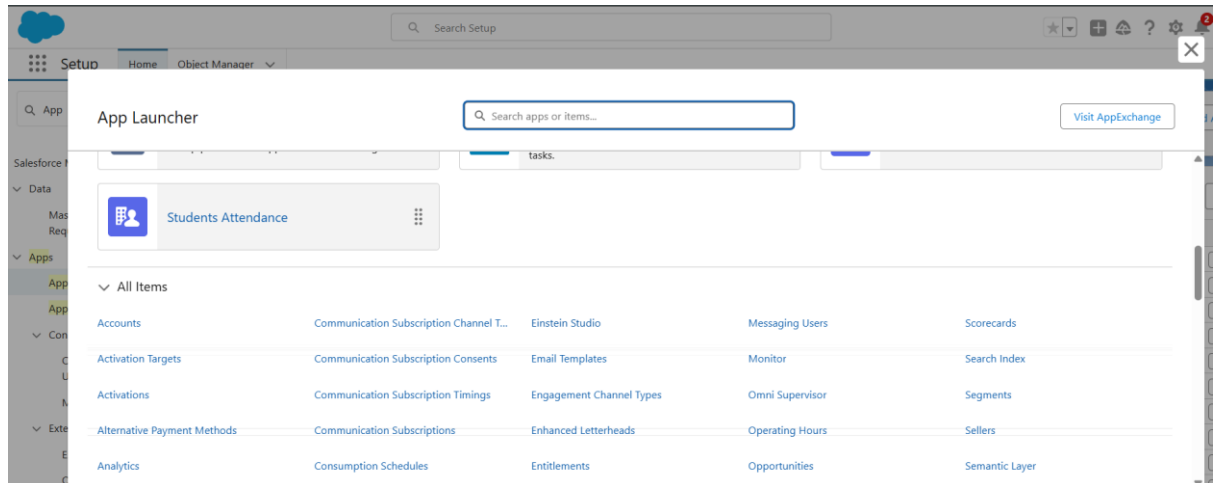3. Add Tabs:
   o Students
   o Attendances

4. Assign to profile:

- System Administrator

5. Save & Finish

STEP 11: Test the System

1. Open the app from the **App Launcher**

2. Create a **Student**

3. Open the **Student record**

4. Click **Mark Attendance**

5. Fill in date, status, and remarks

6. Save → Check that attendance is logged

7. Go to **Attendance tab** → Verify linkage