# **Institute Management System Using Salesforce CRM**

## Phase 1: Problem Understanding & Industry Analysis

### 1. Requirement Gathering

Institute Management require a system to manage student details, course enrollments, attendance, grades, and fees in a centralized manner. The requirements were gathered from administrators, teachers, and students to identify challenges in manual management.

#### 2. Stakeholder Analysis

- **Students** Need easy enrollment, grade tracking, and fee updates.
- **Teachers** Need to record attendance, manage grades, and monitor performance.
- Administrators Require centralized control over student data, reporting, and fee collection.
- **Parents/Guardians (Future)** Require visibility into student performance and attendance.

#### 3. Business Process Mapping

- **Student Admission** → Creation of student record.
- Course Enrollment → Mapping students to multiple courses.
- Attendance Tracking → Daily attendance marking per course.
- **Grade Management** → Entering marks and calculating GPA.
- Fee Management → Recording payments, balances, and due alerts.
- Reporting & Analytics → Generating performance, fee, and attendance reports.

#### 4. Industry-specific Use Case Analysis

- Current systems in schools and colleges rely on **spreadsheets/manual records**, causing redundancy and errors.
- Industry trend is shifting to **cloud-based CRMs** like Salesforce for data accuracy and accessibility.
- Similar use cases:
- University student portals.
- Training centers managing course enrollments.
- Coaching institutes tracking performance.

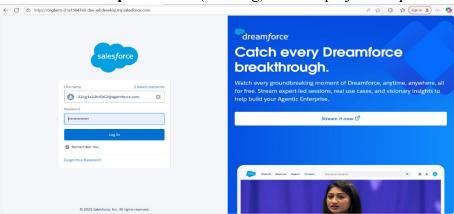
# 5. AppExchange Exploration

- Explored Salesforce **AppExchange** solutions for education management.
- Found apps like:
  - o Salesforce Education Cloud Comprehensive education CRM.
  - Attendance & Fee Management Apps Useful but often paid solutions.
- Decided to **build a custom Institute Management System** tailored for specific institutional needs instead of relying fully on prebuilt paid apps.

# Phase 2: Org Setup & Configuration – Institute Management System

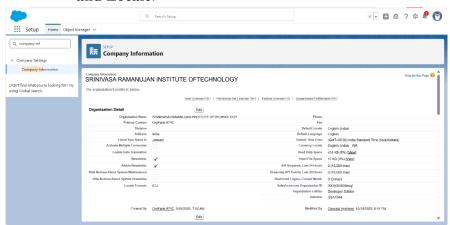
#### 1. Salesforce Edition

• Developer Edition (Dev Org) used for project setup.



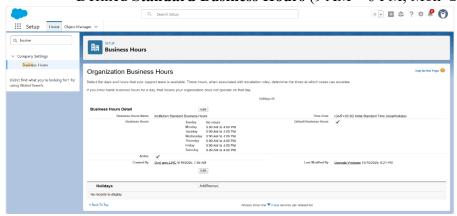
## 2. Company Profile Setup

• Configured Institution Name, Address, Default Time Zone, Currency, and Locale.

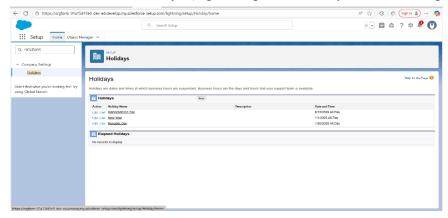


## 3. Business Hours & Holidays

• Defined **Standard Business Hours** (9 AM – 6 PM, Mon–Sat).

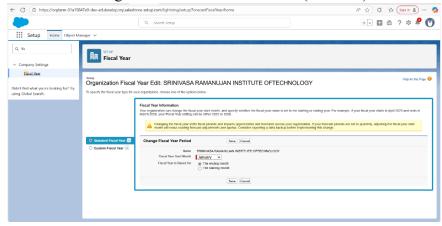


• Added **holidays** (e.g., Independence Day, New Year, Republic Day).



## 4. Fiscal Year Settings

• Configured **Standard Fiscal Year** (Jan–Dec).

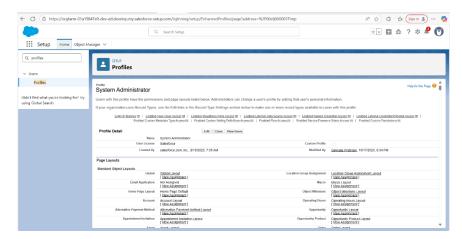


## 5. User Setup & Licenses

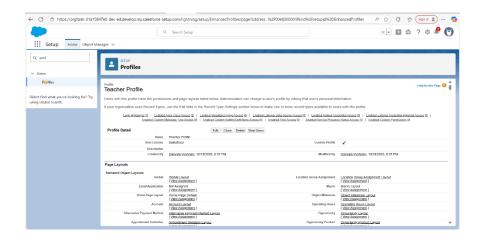
- Created sample users with **Salesforce licenses**:
- **System Administrator** Full access.
- Faculty User Limited teaching access.
- **Student User** Read-only/student data access.

#### 6. Profiles

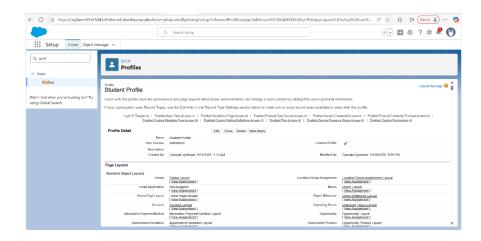
- Created/Modified Profiles:
- System Administrator (default full access).



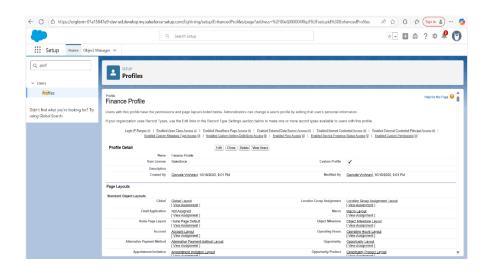
• Teacher Profile – Access to Students, Courses, Attendance, Grades.



• **Student Profile**: To check the student details in the read only mode.

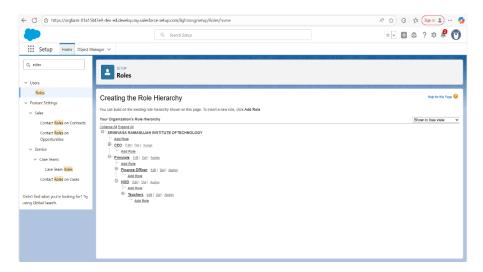


• Finance Profile – Access to Fees object.



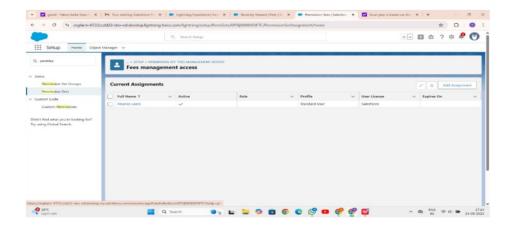
#### 7. Roles

- Defined Role Hierarchy:
  - Principal (Top Role)
    - o HOD
    - o Finance Officer
    - o Teacher



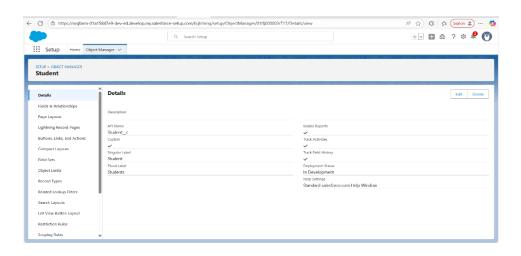
#### **8.Permission Sets**

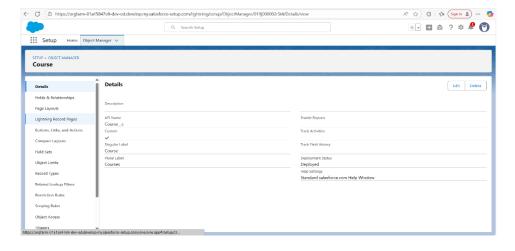
- Created Permission Sets for additional access:
- Report Access Extra reporting permissions.
- o Fee Management Access Extended access to Fees object.

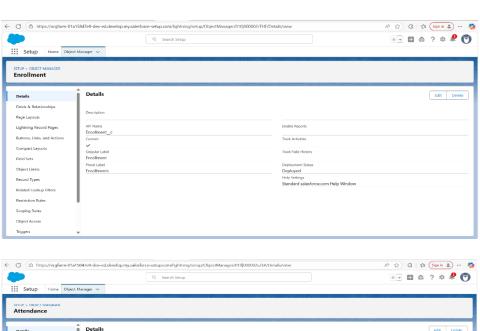


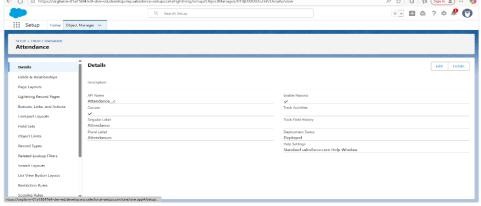
## 9. Objects Created

- **Student (Custom Object)** Manage student details.
- Course (Custom Object) Store course information.
- Enrollment (Junction Object) Relationship between Student & Course.
- Attendance (Custom Object) Track daily student attendance.
- Grades (Custom Object) Store marks, grades, GPA.
- Fees (Custom Object) Manage payments and pending balances.

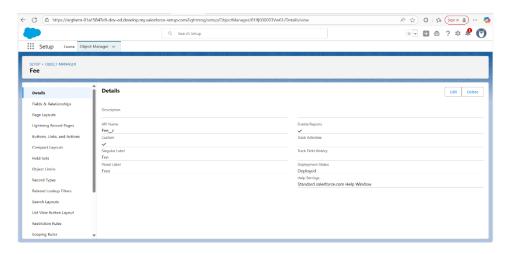






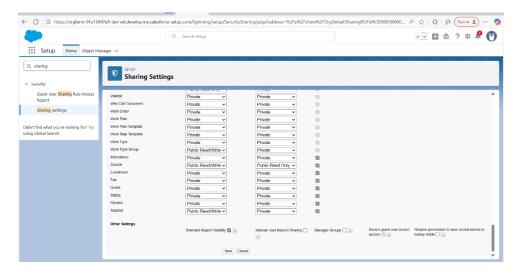






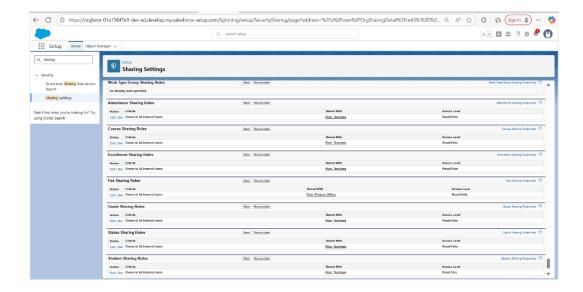
### 10. OWD (Org-Wide Defaults)

- Student  $\rightarrow$  Private
- Course → Public Read Only
- **Enrollment**  $\rightarrow$  Private
- **Attendance** → Private
- **Grades**  $\rightarrow$  Private
- **Fee**  $\rightarrow$  Private



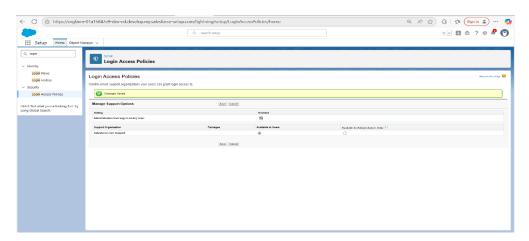
### 11. Sharing Rules

- Shared **Courses** with all Faculty.
- Shared **Student Records** read-only with Faculty (except Finance objects).
- Finance users granted access to Fees object.



## 12. Login Access Policies

- Enabled Administrators Can Log in as Any User.
- Configured Trusted IP Ranges for secure login.



## 13. Dev Org Setup

- Enabled **Dev Hub** in Developer Org.
- Connected CLI:
- sf org login web --set-default-dev-hub --alias DevHub

## 14. Sandbox Usage

- Not available in Developer Edition.
- Documented sandbox usage for real-world projects (Dev, Test, UAT).

## 15. Deployment Basics

- Practiced deployment commands:
- sf project retrieve start --manifest manifest/package.xml -o DevHub
- sf project deploy start --target-org ScratchOrg
- Source code and configuration stored in **GitHub repo** for version control.