# **Phase 3 Report**

# Data Modeling & Relationships

Project: College Placement & Internship Management System

Batch: 4

Program: TCS Last Mile SmartBridge

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#### 1. Introduction

This phase focuses on creating custom objects, fields, and relationships for the College Placement & Internship Management System. The data model defines how students, applications, and job postings are linked in Salesforce, ensuring a structured and secure placement process.

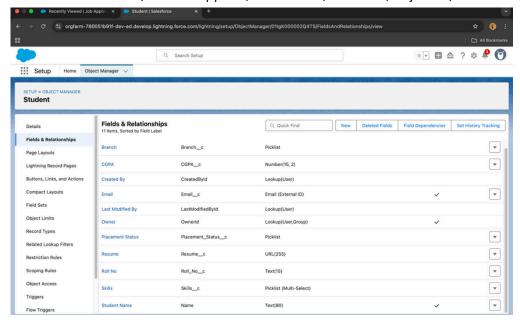
# 2. Objectives

- Create custom objects **Student** and **Application**.
- Define essential fields like Name, CGPA, Skills, and Placement Status.
- Establish relationships between Students, Applications, and Job Postings.
- Verify the schema using Schema Builder.
- Update profile permissions to ensure secure role-based access.
- Validate the model with sample data records.

# 3. Steps Performed

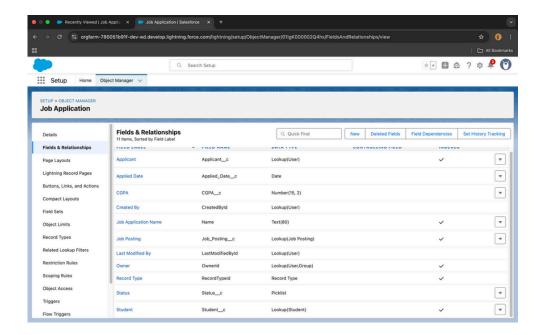
# 3.1 Student Object

- Created custom object Student (Student\_\_c).
- · Key fields:
  - Full Name (Text, Required)
  - Roll Number (Text, Unique)
  - CGPA (Number, 2 decimals)
  - Branch (Picklist: CSE, ECE, ME, etc.)
  - Skills (Multi-select Picklist)
  - Email (Email)
  - Phone (Phone)
  - Placement Status (Picklist: Applied, Shortlisted, Selected, Rejected)



# 3.2 Application Object

- Created custom object **Application** (Application\_c).
- Key fields:
  - Application Date (Date)
  - Status (Picklist: Applied, In Process, Selected, Rejected)
  - Remarks (Long Text Area)



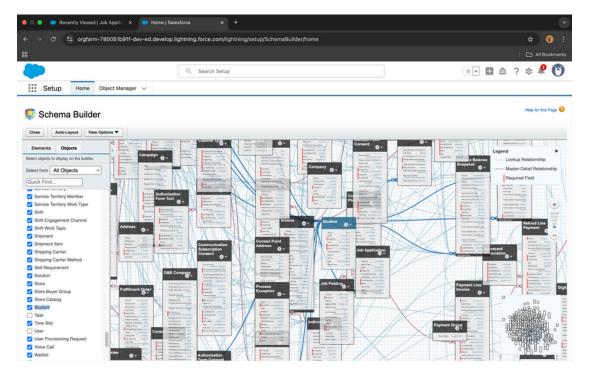
#### 3.3 Relationships

- **Application** → **Student:** Lookup Relationship (each application linked to a student).
- Application → Job Posting: Master-Detail Relationship (each application linked to a job p osting).
- One Student can have many Applications.
- One Job Posting can have many Applications.



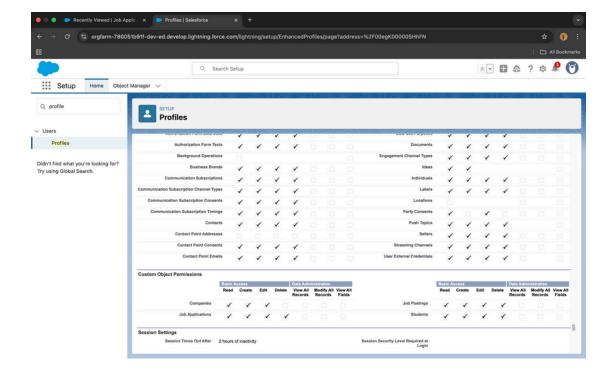
#### 3.4 Schema Builder Verification

- Verified objects and fields in Schema Builder.
- Confirmed one-to-many relationships between Student, Application, and Job Posting.

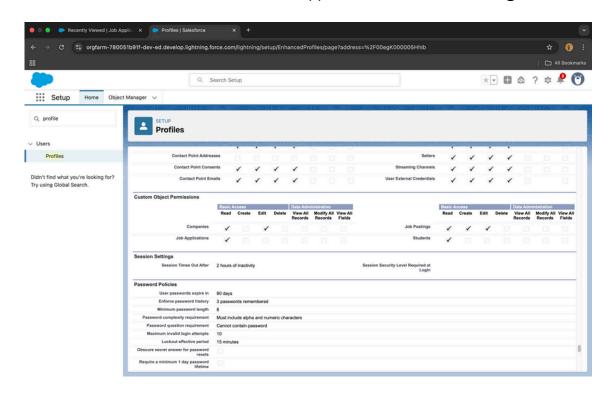


#### 3.5 Profile Permissions

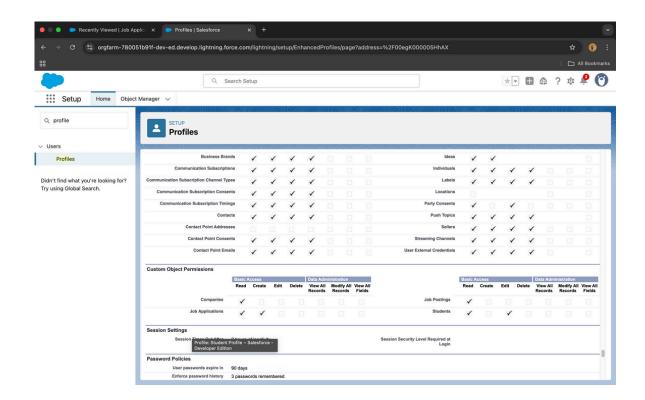
- Updated object-level permissions:
  - Placement Officer: Full access to Students, Applications, and Job Postings.



--Recruiter: Read Students, Full access to Applications, Read Job Postings.

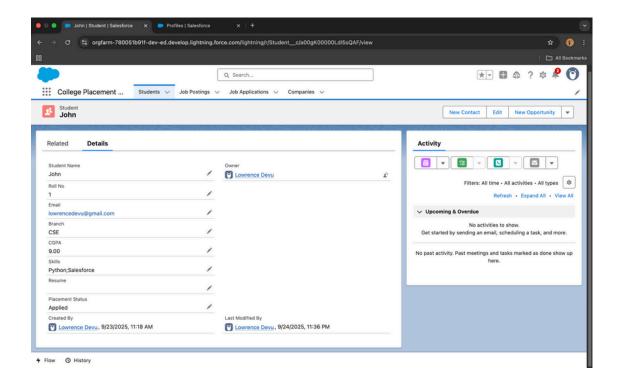


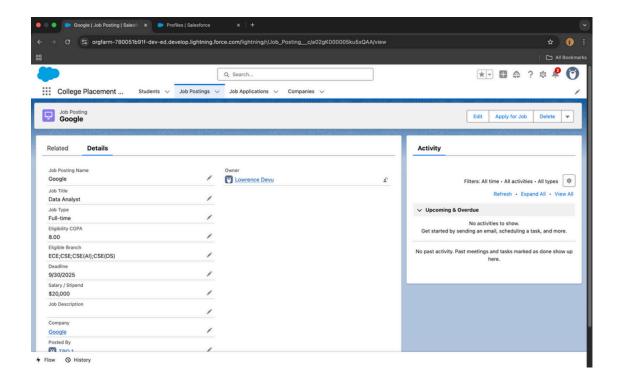
- Student: Edit own Student record, Create/Read/Edit Applications, Read Job Postings

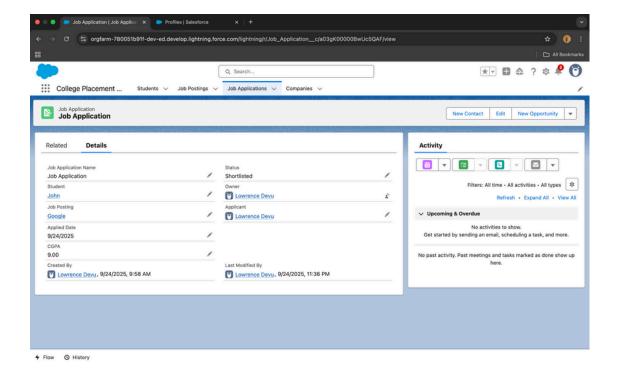


# 3.6 Testing with Sample Data

- Created test students (e.g., John, Priya).
- Created a Job Posting (Software Engineer @ TCS).
- Student logged in and applied → Application created.
- Recruiter logged in and reviewed Applications.
- Placement Officer monitored all records.







#### 4. Expected Outcomes

- Custom objects Student and Application created successfully.
- Fields defined for placement and internship tracking.
- Relationships established between Student, Application, and Job Posting.
- Schema verified with correct data model.
- Profiles configured for secure role-based access.
- Sample testing validated access for all roles.

#### 5. Conclusion

Phase 3 defined the core data model for the College Placement & Internship Management System. The Student and Application objects were created, relationships established, and permissions configured. Testing confirmed correct functionality for different roles. This provides the backbone for Phase 4, which will focus on automation using flows, validation rules, and notifications.