

Phase 3

Salesforce Data Model Implementation

Step 1: Create Custom Objects

Navigate to Setup → Object Manager → Create → Custom Object.

Create the following custom objects one by one:

- **Student**
 - Record Name: Student ID (Auto-Number)
 - Enable: Reports & Activities
- **Faculty**
 - Record Name: Faculty ID (Auto-Number)
 - Enable: Reports & Activities
-

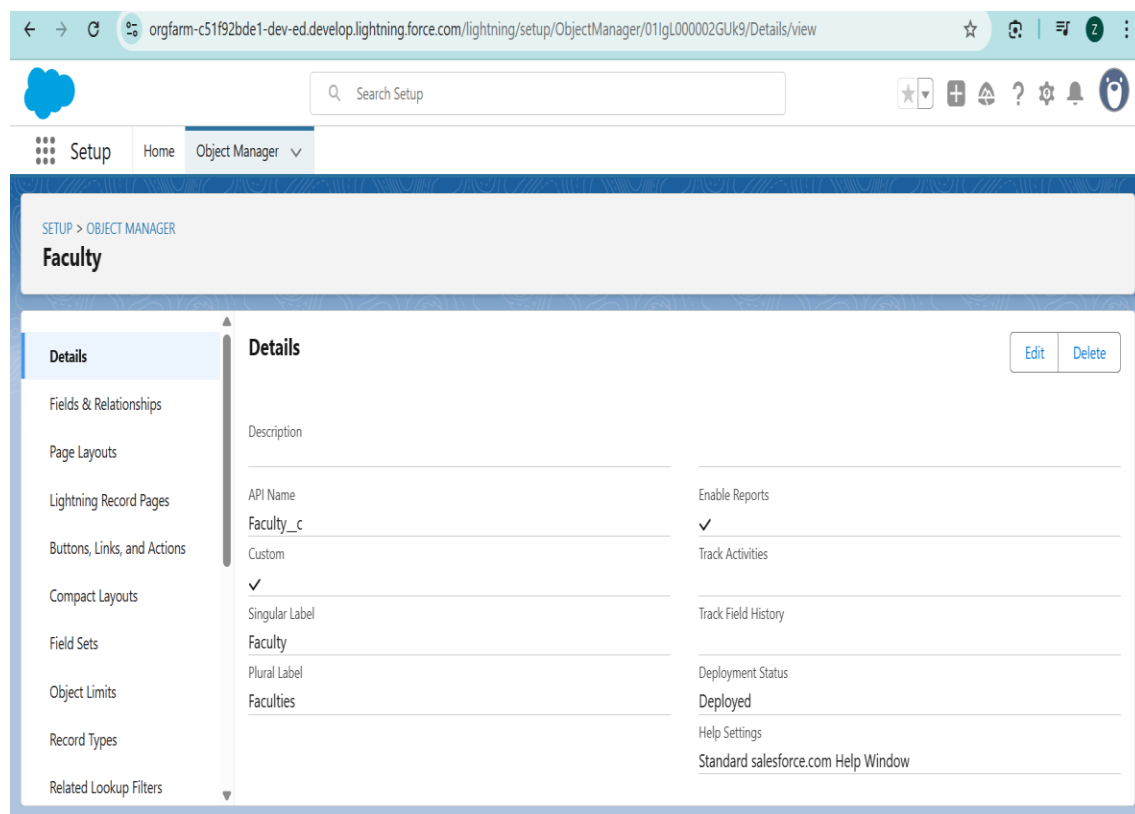


Fig1: Faculty Custom Object

- **Course**
 - Record Name: Course ID (Auto-Number or Text)
 - Enable: Reports & Activities
- **Enrollment**
 - Record Name: Enrollment ID (Auto-Number)
 - Enable: Reports & Activities
- **Fee Payment**
 - Record Name: Payment ID (Auto-Number)
 - Enable: Reports & Activities

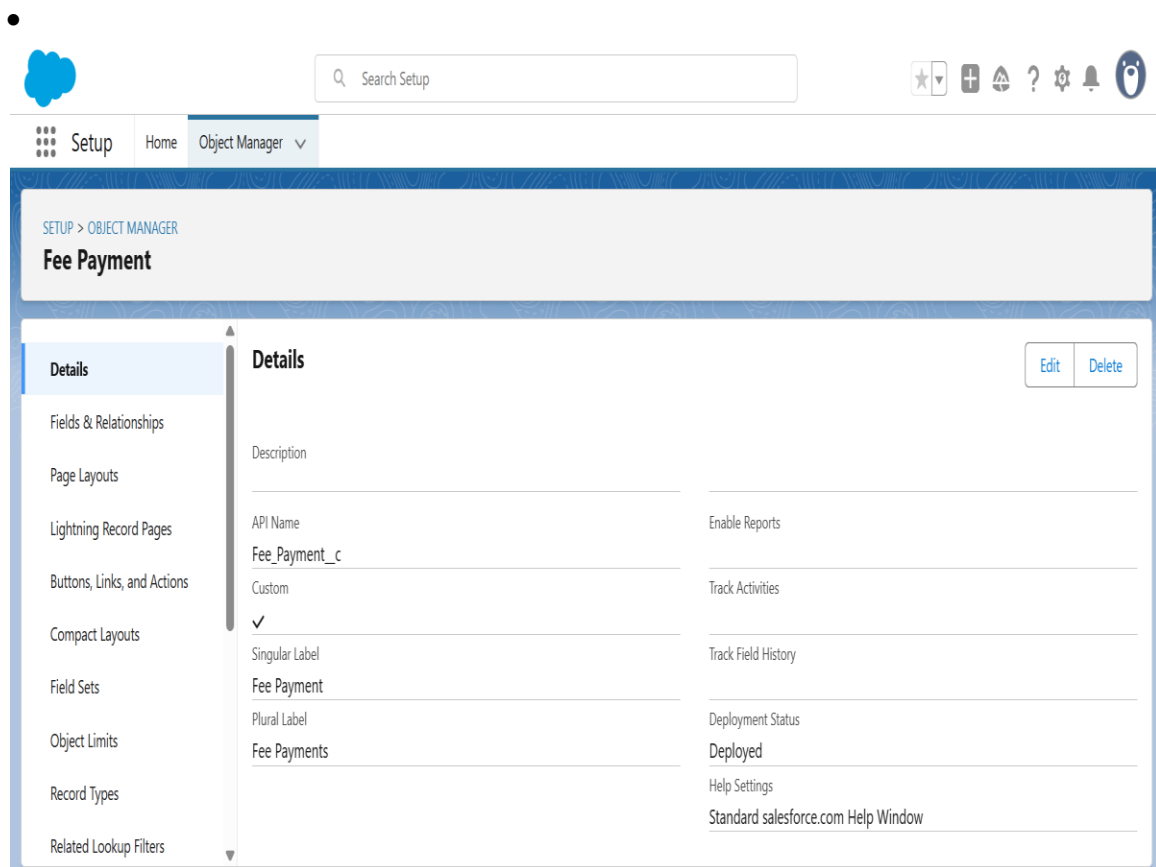


Fig 2:Fee payment custom Object

Step 2: Add Fields to Custom Objects

Student

- Email → Text
- Phone → Phone
- DOB → Date
- Enrollment Status → Picklist (Admitted, Active, Completed, Dropped)
- Course → Lookup (Course)

SETUP > OBJECT MANAGER

Student

Details

Fields & Relationships
11 Items, Sorted by Field Label

Q Quick Find

New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Admission Date	Admission_Date__c	Date		
Course	Course__c	Lookup(Course)		✓
Created By	CreatedById	Lookup(User)		
DOB	DOB__c	Date		
Email	Email__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		

Fig 3:Fields of Student object

Faculty

- Email → Email
- Phone → Phone
- Department → Picklist (CSE,ECE,EEE,CE,MEC,AIML,AIDS)
- Faculty ID → Auto-Number

Course

- Course Name → Text
- Course Code → Text
- Duration → Number (Months)
- Credits → Number
- Fees → Currency
- Faculty → Lookup (Faculty)

Enrollment

- Student → Lookup (Student)
- Course → Lookup (Course)

- Enrollment Date → Date
- Status → Picklist (Active, Completed, Dropped)
- Grade → Picklist (A, B, C, D, F)

SETUP
Object Manager

Edit Enrollment Custom Field
Status

Help for this Page

Step 2. Enter the details Step 2 of 3

Previous Save Next Cancel

Field Label

Below is a list of picklist values. Click Edit to change the name of the value or make it the default value.

<input type="checkbox"/> Action	Values	API Name	Default	Chart Colors	Modified By
<input type="checkbox"/> Edit Del	Active	Active	<input type="checkbox"/>	Assigned dynamically	Maktumsabgari Juha Fathima, 9/17/2025, 6:28 AM
<input type="checkbox"/> Edit Del	Completed	Completed	<input type="checkbox"/>	Assigned dynamically	Maktumsabgari Juha Fathima, 9/17/2025, 6:28 AM
<input type="checkbox"/> Edit Del	Dropped	Dropped	<input type="checkbox"/>	Assigned dynamically	Maktumsabgari Juha Fathima, 9/17/2025, 6:28 AM

Field Name

Description

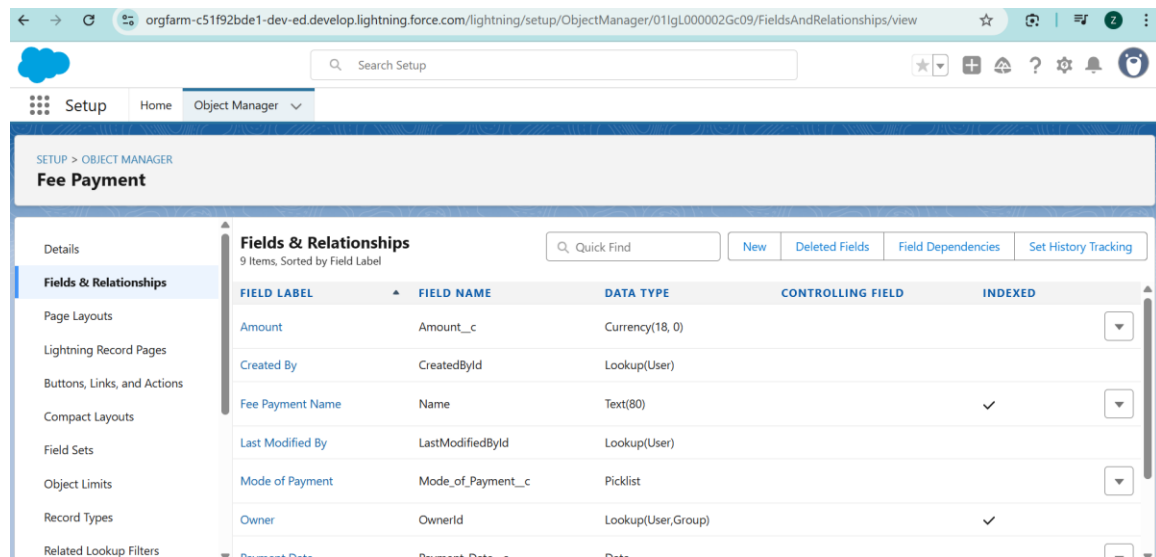
Help Text

Required ☒ Always require a value in this field in order to save a record

Fig 4: Picklist of Status Field

Fee Payment

- Student → Lookup (Student)
- Payment Date → Date
- Amount → Currency
- Mode of Payment → Picklist (Cash, Card, Online)
- Status → Picklist (Paid, Pending)



The screenshot shows the Salesforce Object Manager interface for the 'Fee Payment' object. The 'Fields & Relationships' section is active, displaying a table of 9 fields. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Amount (Currency), Created By (Lookup), Fee Payment Name (Text), Last Modified By (Lookup), Mode of Payment (Picklist), Owner (Lookup), and Request Date (Date). The 'Amount' field is highlighted in blue.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Amount	Amount__c	Currency(18, 0)		
Created By	CreatedById	Lookup(User)		
Fee Payment Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Mode of Payment	Mode_of_Payment__c	Picklist		
Owner	OwnerId	Lookup(User,Group)		✓
Request Date	RequestDate	Date		

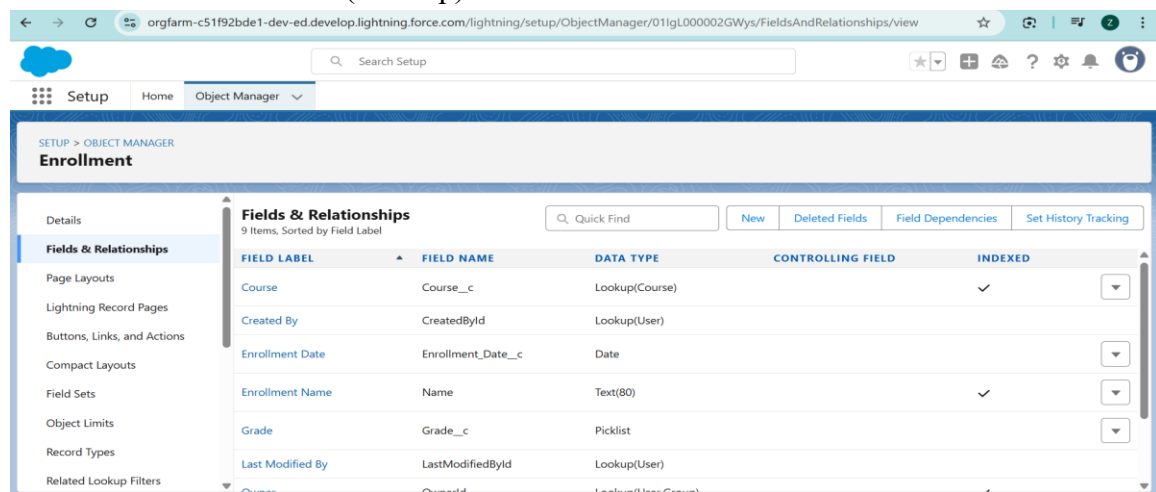
Fig 5: Fields of Fee payment

Step 3: Setup Relationships:

Junction Object → Enrollment:

The Enrollment object enables a many-to-many relationship between Students and Courses.

- Enrollment → Student (Lookup)
- Enrollment → Course (Lookup)



The screenshot shows the Salesforce Object Manager interface for the 'Enrollment' object. The 'Fields & Relationships' section is active, displaying a table of 9 fields. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Course (Lookup), Created By (Lookup), Enrollment Date (Date), Enrollment Name (Text), Grade (Picklist), Last Modified By (Lookup), and Request Date (Date). The 'Course' field is highlighted in blue.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Course	Course__c	Lookup(Course)		✓
Created By	CreatedById	Lookup(User)		
Enrollment Date	EnrollmentDate__c	Date		
Enrollment Name	Name	Text(80)		✓
Grade	Grade__c	Picklist		
Last Modified By	LastModifiedById	Lookup(User)		
Request Date	RequestDate	Date		

Fig 6:Junction Object

- Course → Faculty (Lookup)
- Fee Payment → Student (Lookup)

This creates the following structure:

- One Student → many Courses (via Enrollment)
- One Course → many Students (via Enrollment)
- One Student → multiple Fee Payments
- One Faculty → many Courses

Step 4: Verify Schema with Schema Builder

1. Go to Setup → Schema Builder
2. Drag & drop objects: Student, Faculty, Course, Enrollment, Fee Payment
3. Confirm relationships visually.

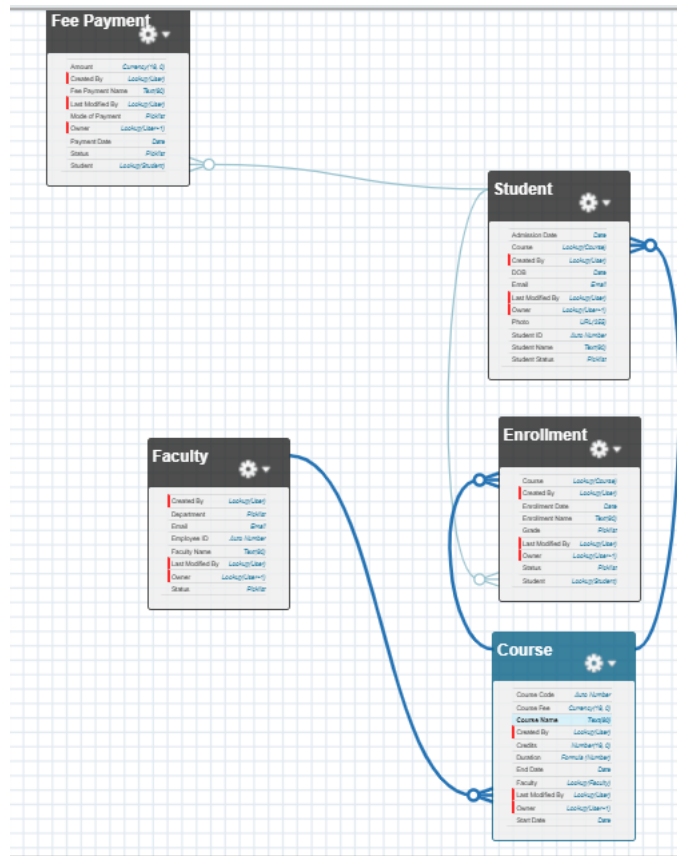


Fig 7 Schema map

Step 5: Creating Tabs for Objects

In this step, I created **custom objects** in Salesforce to represent the key entities of the Nandini Institute Of Technology. For each object, I also created a **tab** so that users can access and manage records easily from the Salesforce app navigation bar.

1. Navigated to **Setup → Object Manager**.

2. Created a **new custom object** for each entity (Student, Faculty, Course, Fee Payment, Enrollment).
3. For every object, created a **tab** via:
 - Setup → Tabs → New Tab
 - Selected the object and an icon, then saved.

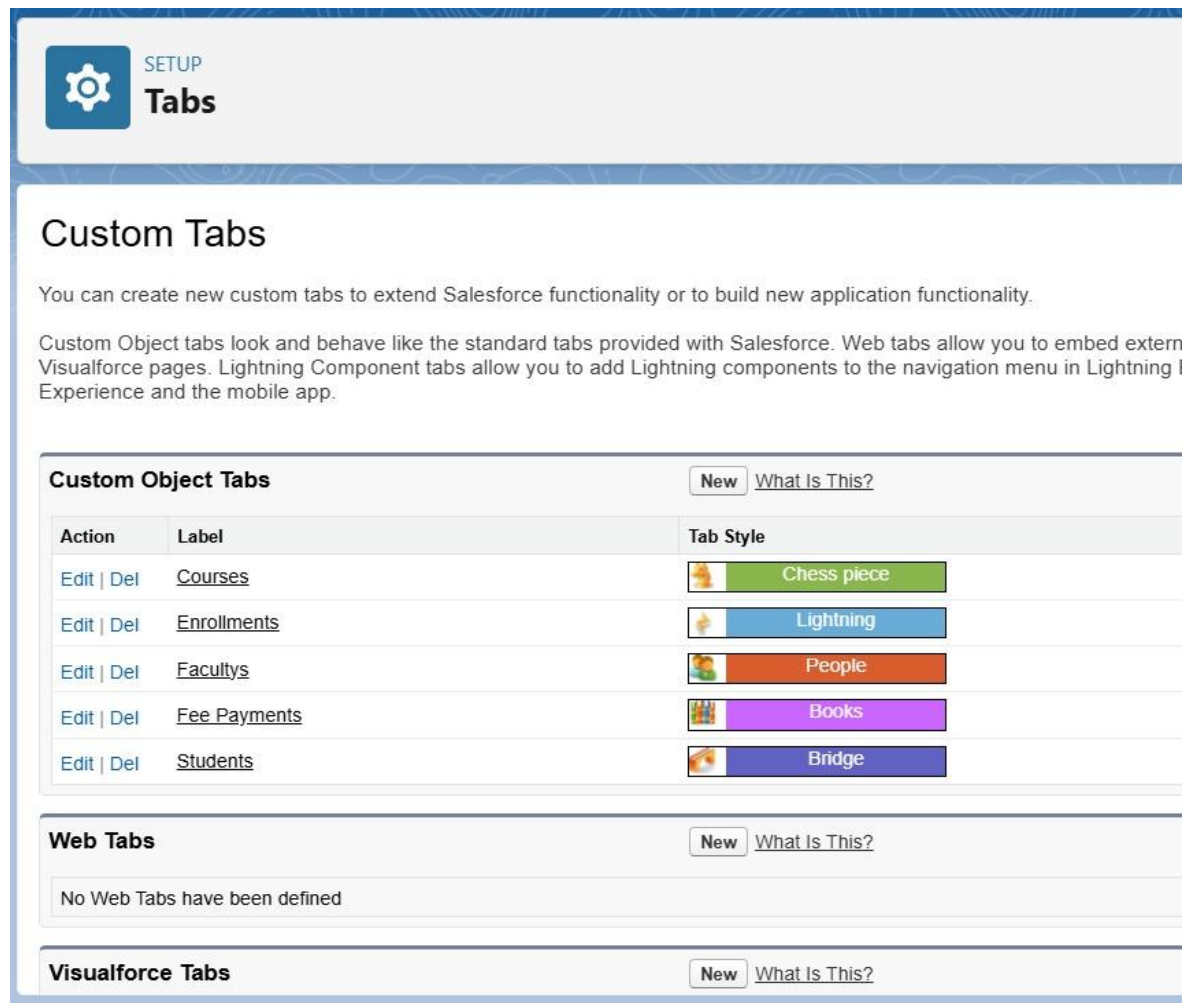


Fig:Creation of Tabs

Step 6: App Creation :

Step 1: Create a New App

1. Go to **Setup** → **App Manager**.
2. Click on **New Lightning App**.
3. Enter **App Name** (e.g., *Institute Management System*).
4. Upload an **App Logo** to personalize the app.

5. Click **Next** to continue.

Step 2: Configure Navigation

1. Select **Navigation Style** → **Standard Navigation**.
2. Choose whether the app should be available on **Desktop** or **Desktop & Mobile**.
3. Click **Next**.

Step 3: Assign User Profiles

1. Select the **profiles** that should access this app.
 - Example: System Administrator, Standard User.
2. Click **Save and Finish**.

Step 4: Verify the App

1. Open the **App Launcher** (grid icon in top-left).
2. Search for your app (Nandini Institute Of Technology).
3. Open it and confirm that all required **tabs** (Students, Faculty, Courses, Fee Payment, Enrollments) are visible.
4. Test by creating a sample record in each tab to ensure everything works properly.

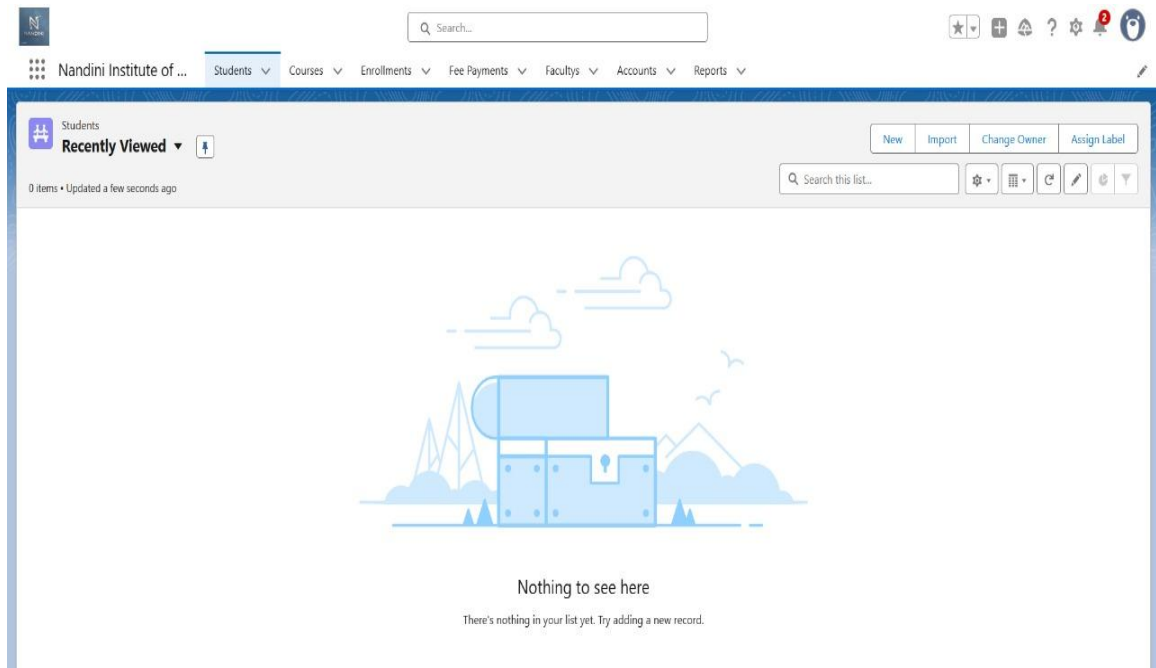



Fig: App creation-Nandini Institute of Technology

 Faculty


zuha fathima

Related

Details


Faculty Name

zuha fathima




Email

zuhaf8899@gmail.com




Phone

91 7331145475




Department


CSE




Created By

 Narigammagari Nandini, 9/21/2025, 6:29 AM

Owner

 Narigammagari Nandini



Last Modified By


 Narigammagari Nandini, 9/21/2025, 6:30 AM

Fig: Verification