

SALESFORCE PROJECT READY

Entry Level Training and Professional Development Program

Project : College Management Application

Day-1 :

Topic: Create Your Salesforce Developer Org To Get Started

Milestone/Activities : Creating Developer account, Account activation, Login to your Salesforce Account

Description :

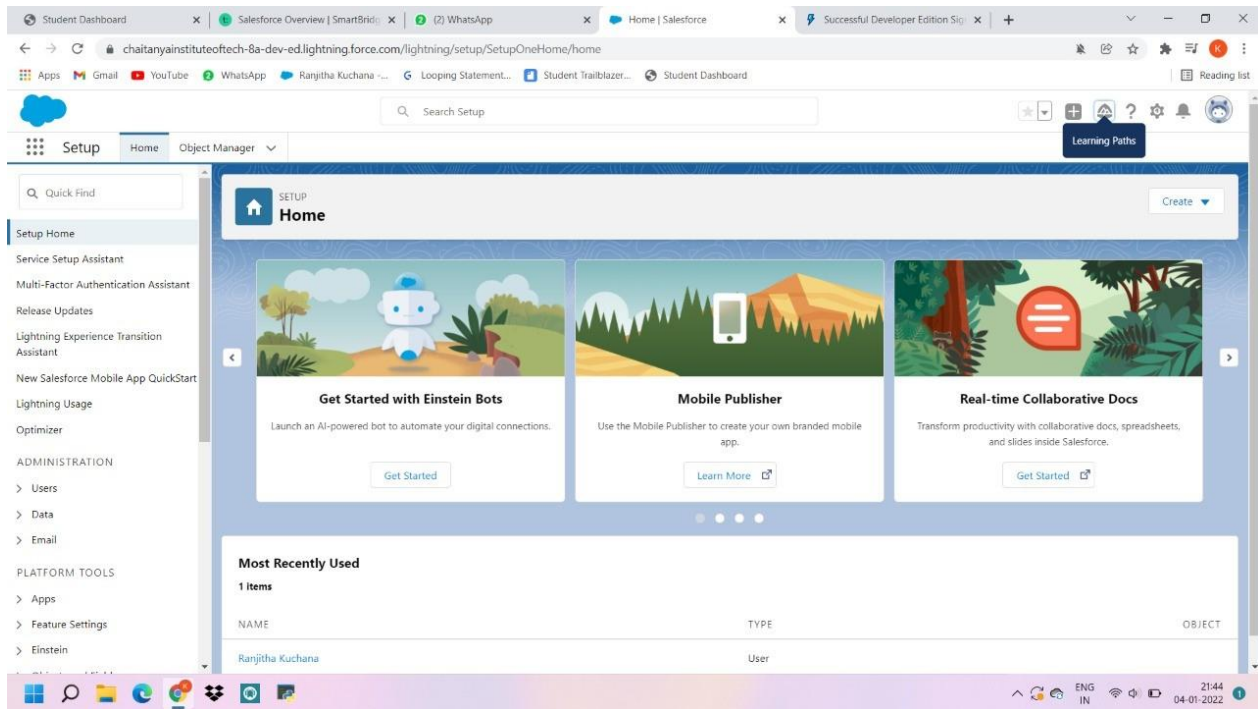
Creating a developer org in salesforce :

- 1.Go to developers.salesforce.com/
 - 2.Click on sign up.
 3. On the sign up form, enter the following details :
 4. First name :Srija& Last name :Padakanti
 5. Email :Srijap292000@gmail.com
 - 6.Role : Developer
 - 7.Company : Chaitanya Institute of Technology and Science
 - 8 County : India
 - 9.Postal Code : 506009
 - 10.Username : srijap292000@empathetic-hawk-w3c3ua.com
- Click on sign up after filling these.

Account Activation :

Verified mail account and activated the account.Login to your Salesforce Customer Account :

Logged into salesforce account using <https://login.salesforce.com/linkcIWZ>



Day-2 :

Topic: Custom Object Creation

Milestone/Activities : Create the custom objects for the Application, Create Fields on college object

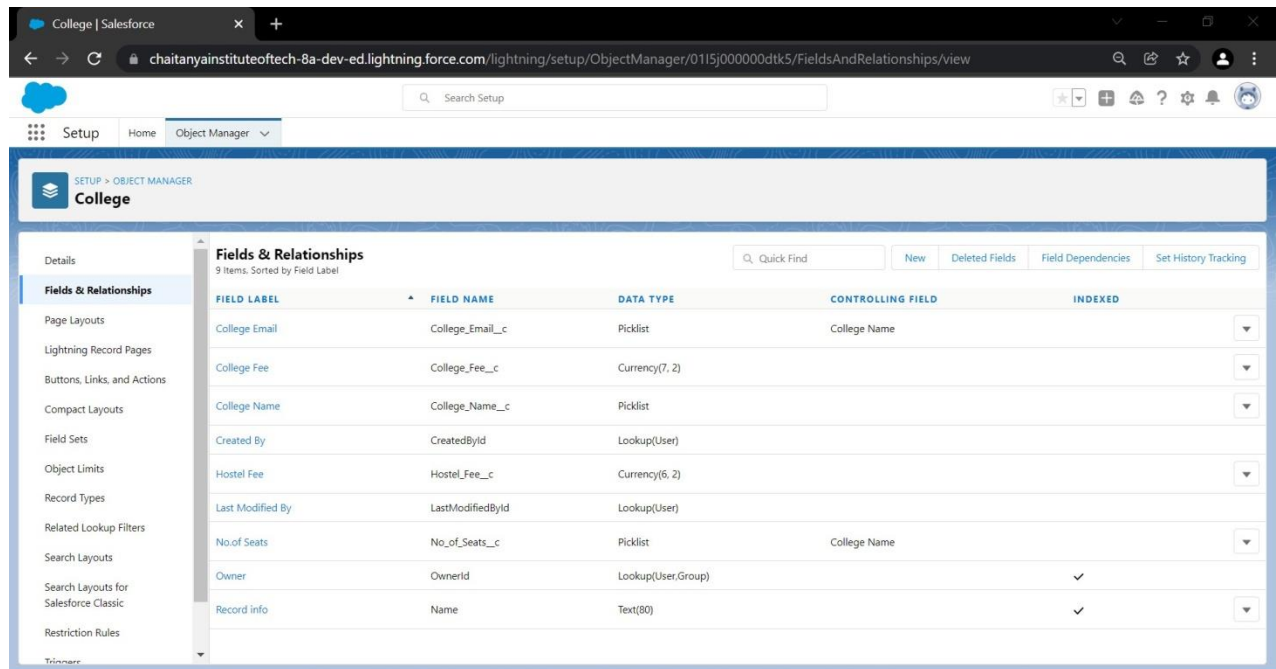
Description :

Created a College custom object and created Fields for the custom object College.

Fields for College are:

- > Record Info
- > College Name
- > Email
- > College Fees
- > Hostel Fees
- > Capacity of Students

> Validation Rules



The screenshot shows the Salesforce Setup interface for a custom object named 'College'. The 'Fields & Relationships' section is active, displaying a list of 9 fields. The fields are sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
College Email	College_Email__c	Picklist	College Name	
College Fee	College_Fee__c	Currency(7, 2)		
College Name	College_Name__c	Picklist		
Created By	CreatedById	Lookup(User)		
Hostel Fee	Hostel_Fee__c	Currency(6, 2)		
Last Modified By	LastModifiedById	Lookup(User)		
No. of Seats	No_of_Seats__c	Picklist	College Name	
Owner	OwnerId	Lookup(User, Group)		✓
Record info	Name	Text(80)		✓

Day-3 :

Topic: Custom Object Creation

Milestone/Activities : Create the custom objects for the Application Form, Student, Subject, Create Fields on Application Form object, Student object, Subject object, Adding Business Logic to Application

Description :

Created a Application Form custom object and created Fields for the custom object Application Form.

This screenshot shows the 'Fields & Relationships' page for the 'Application Form' object in Salesforce. The page lists 11 fields with their labels, names, data types, and whether they are indexed or controlling fields.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
College	College__c	Master-Detail(College)		✓
College Fee	College_Fee__c	Formula (Currency)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Email	Email__c	Email (Unique)		✓
Form Number	Name	Auto Number		✓
Guardian Name	Guardian_Name__c	Text(30)		
Hostel Fee	Hostel_Fee__c	Formula (Currency)		
Last Modified By	LastModifiedById	Lookup(User)		
Looking For Hostel Stay	Looking_For_Hostel_Stay__c	Checkbox		
Phone	Phone__c	Phone		
Ready To Join	Ready_To_Join__c	Checkbox		
Student Name	Student_Name__c	Text(30)		

Created a student custom object and created Fields for the custom object student.

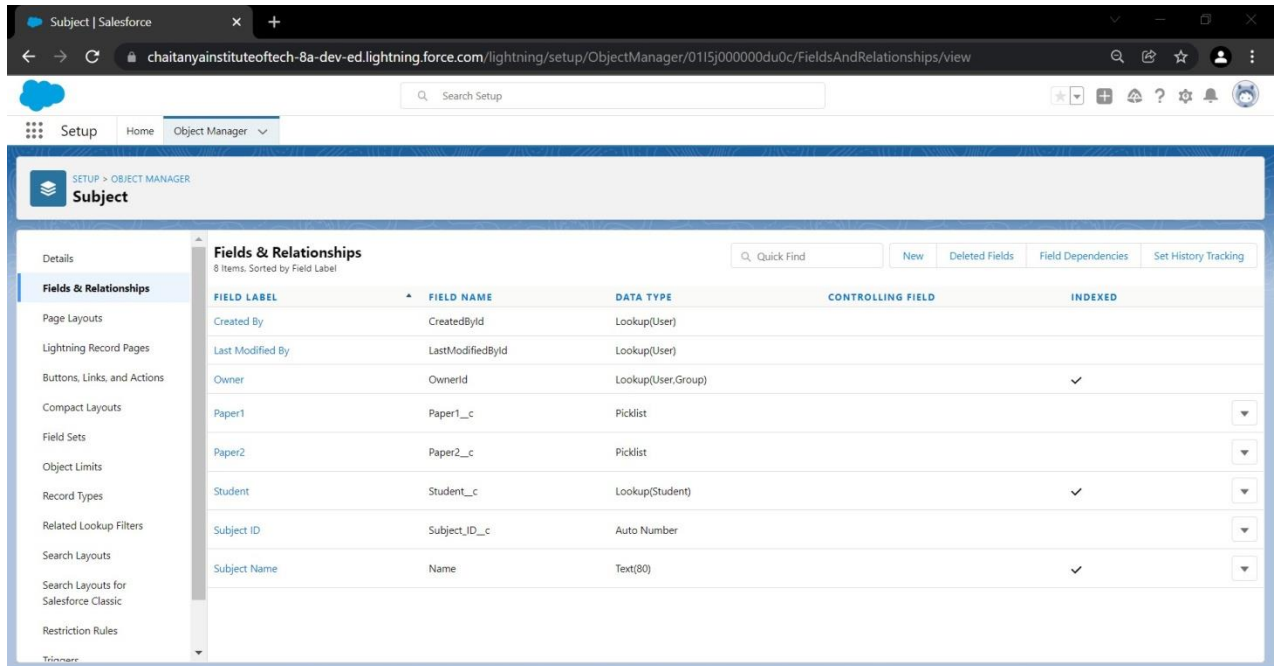
Student Object and Fields :

This screenshot shows the 'Fields & Relationships' page for the 'Student' object in Salesforce. The page lists 11 fields with their labels, names, data types, and whether they are indexed or controlling fields.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
Application Form	Application_Form__c	Lookup(Application Form)		✓
College Name	College_Name__c	Formula (Text)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Guardian Name	Guardian_Name__c	Text(30)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User, Group)		✓
Phone	Phone__c	Phone		
Student Name	Student_Name__c	Text(25)		
Student Name	Name	Text(80)		✓

Created a Subject custom object and created Fields for the custom object Subject.

Subject Object and Fields :



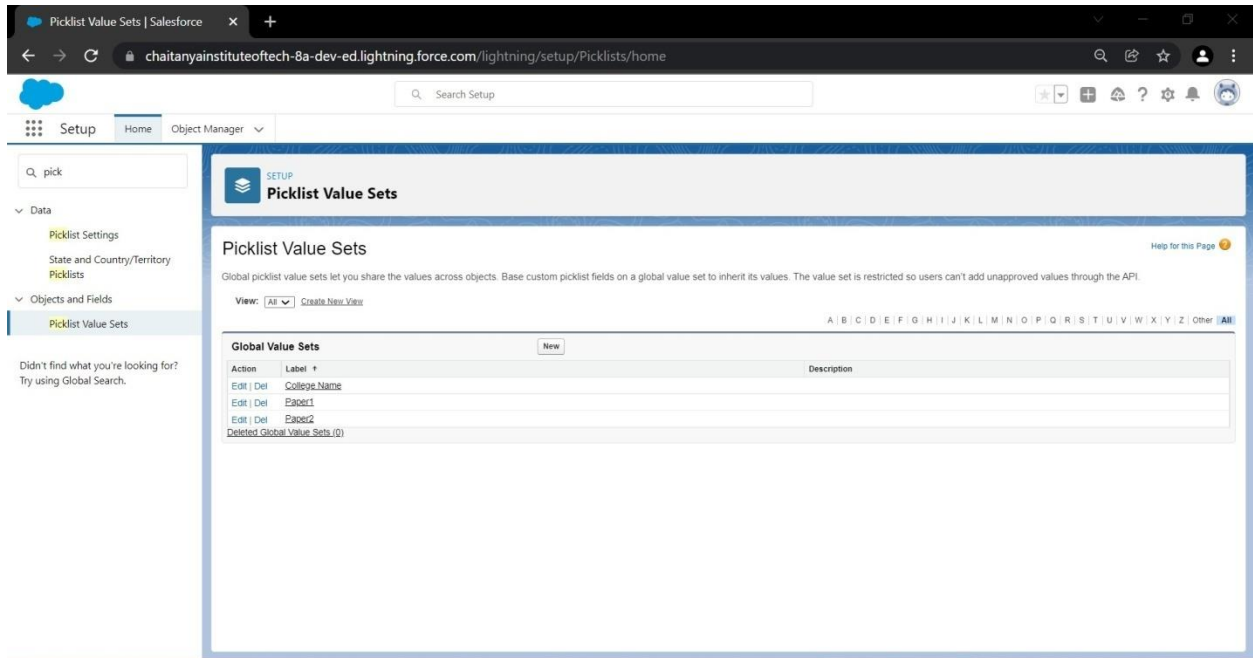
The screenshot shows the Salesforce Setup interface for a custom object named 'Subject'. The 'Fields & Relationships' section is active, displaying a list of 8 fields sorted by Field Label. The fields are: Created By (Lookup(User)), Last Modified By (Lookup(User)), Owner (Lookup(User, Group)), Paper1 (Picklist), Paper2 (Picklist), Student (Lookup(Student)), Subject ID (Auto Number), and Subject Name (Text(80)). The 'INDEXED' column shows checkmarks for Owner, Student, Subject ID, and Subject Name. The 'CONTROLLING FIELD' column is empty. The 'FIELD NAME' column shows the API names: CreatedById, LastModifiedById, OwnerId, Paper1__c, Paper2__c, Student__c, Subject_ID__c, and Name.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User, Group)		✓
Paper1	Paper1__c	Picklist		
Paper2	Paper2__c	Picklist		
Student	Student__c	Lookup(Student)		✓
Subject ID	Subject_ID__c	Auto Number		✓
Subject Name	Name	Text(80)		✓

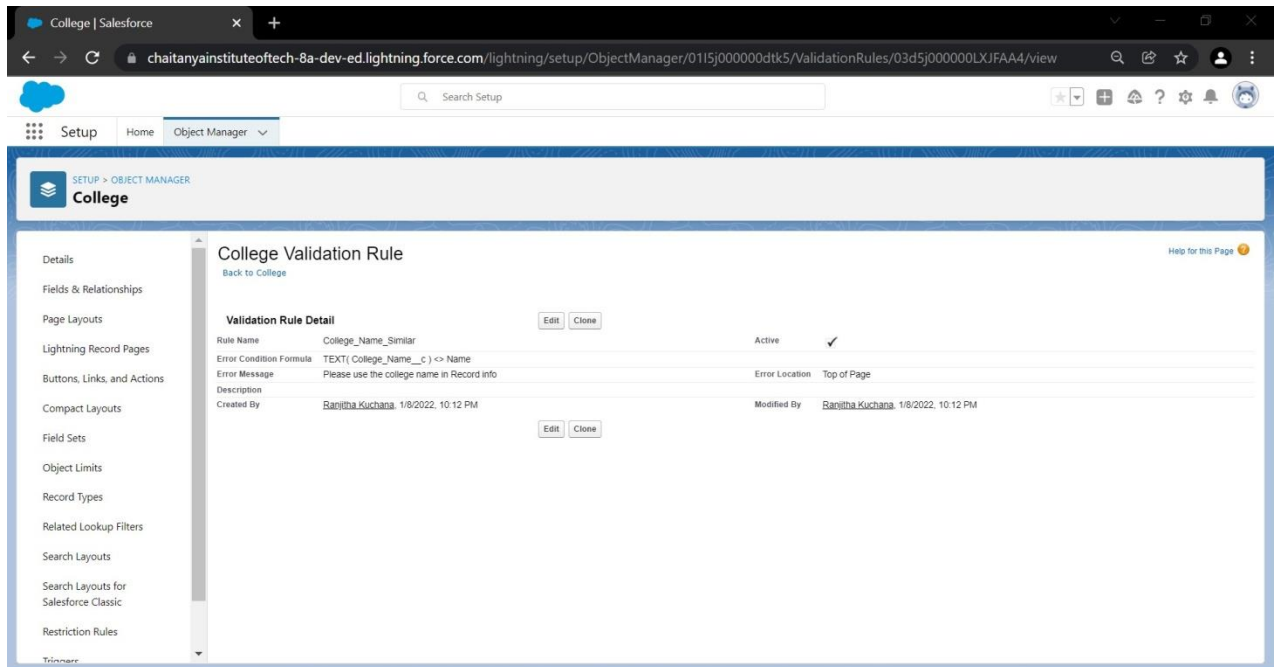
In Picklist Value sets Created 3 Picklist value sets

- College Name
- Paper 1
- Paper 2

Created Global Picklist Values :



Creating Validation Rule :



Creating Field Dependencies :

Created field dependencies for college object

- controlling field as college name and depending field is college email.
- controlling field as college name and depending field is capacity of students

College | Salesforce

chaitanyainstituteoftech-8a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01I5j000000dtk5/FieldsAndRelationships/viewDependencyList

Setup Home Object Manager

SETUP > OBJECT MANAGER
College

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Search Layouts for Salesforce Classic

Restriction Rules

Triggers

College Field Dependencies

< Back to Custom Object: College

This page allows you to define dependencies between fields (e.g., dependent picklists).

Field Dependencies

New

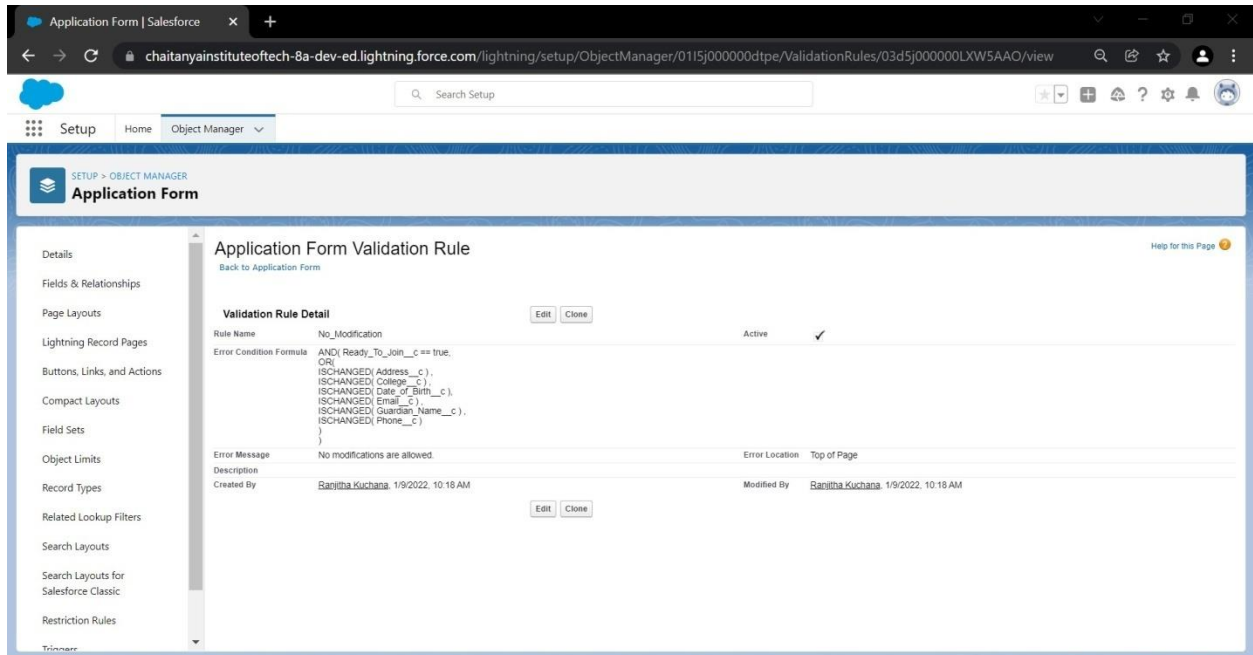
Action	Controlling Field	Dependent Field	Modified By
Edit Del	College Name	College Email	Banitha Kuchana, 1/8/2022, 8:23 PM
Edit Del	College Name	No of Seats	Banitha Kuchana, 1/8/2022, 8:31 PM

Day-4 :

Topic : Validation Rule

Description :

Created a validation rule on the application form object to stop any modification on the application form once a student record is created.

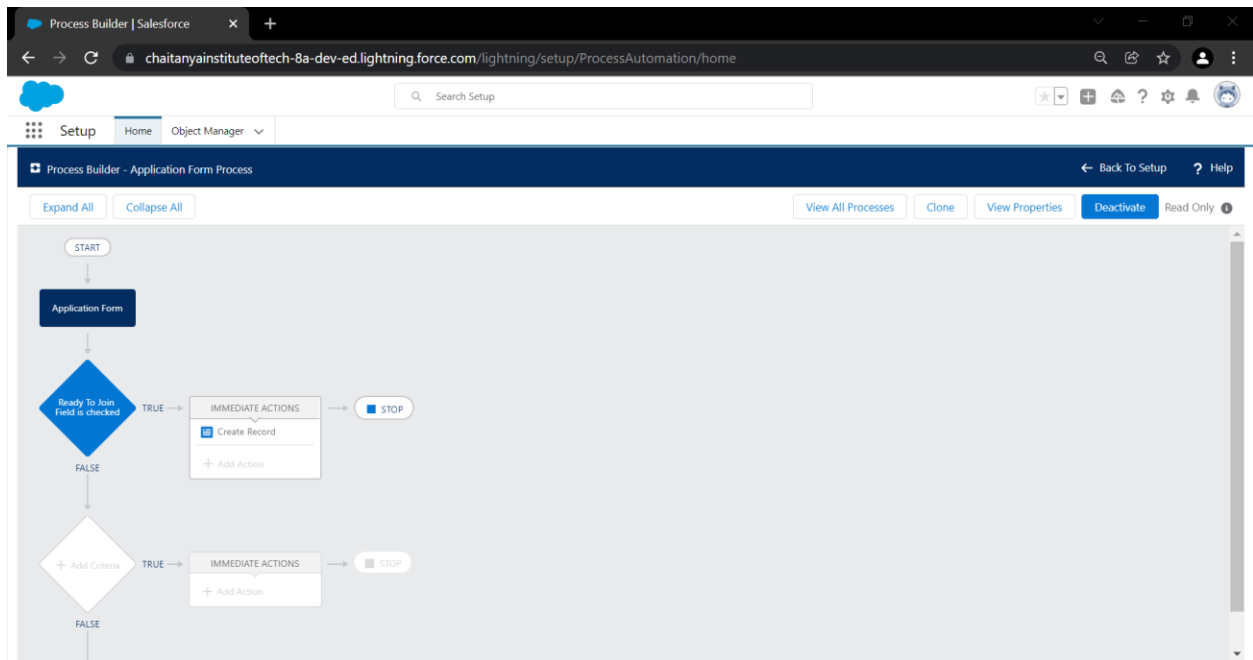


Day-5 :

Topic : Process Automation

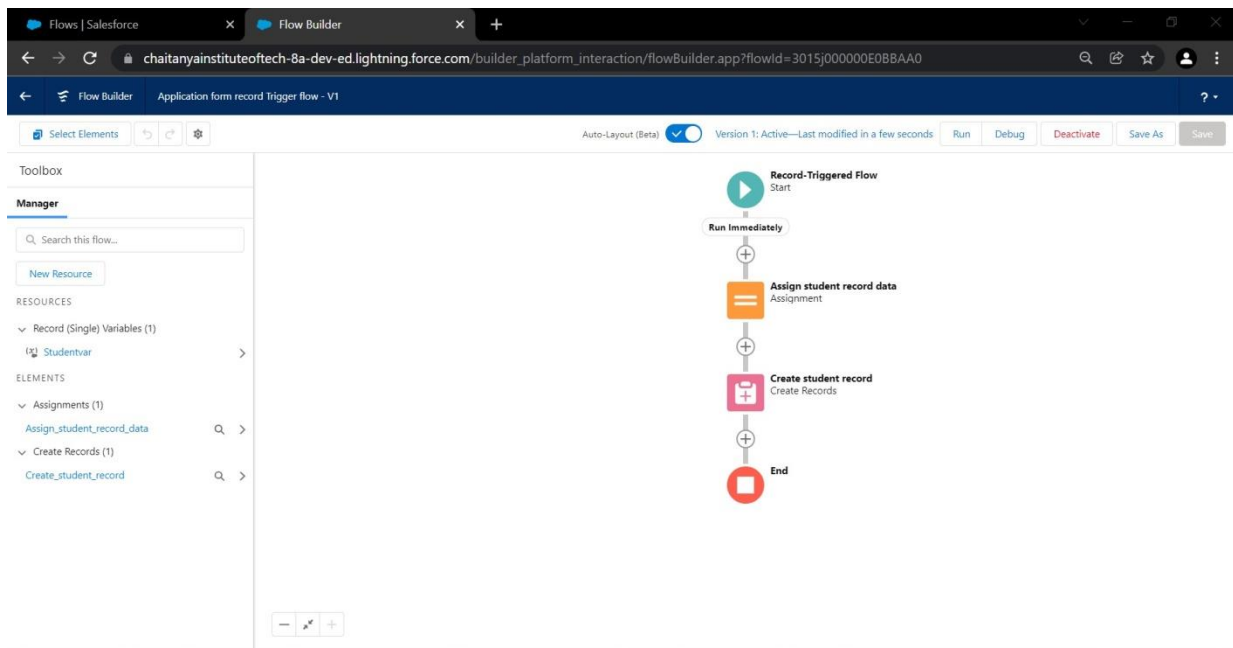
Description :

Created an automation process such that when the "ready to join" field is checked on the application form object it will create the student record automatically with the information specified in the application form record.



Day-6 :

Topic: Create the student record using flow Milestone/Activities
:Adding Business Logic to ApplicationDescription :



Day-7 :

Topic: BATCH APEX

**Milestone/Activities : Create A Batch-apex For Application Form,
Create A Scheduler Class**

Description :

created apex batches

- **Applicationbatchtest**
- **applicationschedule**

The screenshot shows the Salesforce Setup interface for Apex Classes. The left sidebar contains a navigation menu with categories like Email, Custom Code, Environments, and Jobs. Under Custom Code, 'Apex Classes' is selected. The main content area displays the 'Apex Classes' page, which includes a summary of Apex code usage (0.03% used, 1,714 characters) and a table of existing Apex classes. The table has columns for Action, Name, Namespace Prefix, Api Version, Status, Size Without Comments, Last Modified By, and Has Trace Flags. Three classes are listed: ApplicationBatchTest, applicationschedule, and GetaplicationDetails.

Action	Name	Namespace Prefix	Api Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit Del Security	ApplicationBatchTest		53.0	Active	1,133	Ranjitha Kuchana, 1/16/2022, 4:27 AM	<input type="checkbox"/>
Edit Del Security	applicationschedule		53.0	Active	219	Ranjitha Kuchana, 1/16/2022, 4:30 AM	<input type="checkbox"/>
Edit Del Security	GetaplicationDetails		53.0	Active	363	Ranjitha Kuchana, 1/17/2022, 7:15 AM	<input type="checkbox"/>

Apex Jobs | Salesforce

chaitanyainstituteoftech-8a-dev-ed.lightning.force.com/lightning/setup/AsyncApexJobs/home

Setup Home Object Manager

apex

Apex Jobs

Click here to go to the new batch jobs page

Apex Jobs

Monitor the status of all Apex jobs, and optionally, abort jobs that are in progress.

View: All Create New View

Action	Submitted Date	Job Type	Status	Status Detail	Total Batches	Batches Processed	Failures	Submitted By	Completion Date	Apex Class	Apex Method	Apex Job ID
	1/11/2022, 1:04 AM	Scheduled Apex	Queued		0	0	0	Kuchana_Ranjitha		applicationschedule		707590000ePbm

Didn't find what you're looking for?
Try using Global Search.

Developer console codes :

Developer Console - Google Chrome

chaitanyainstituteoftech-8a-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage?action=selectExtent&extent=apexclass

File Edit Debug Test Workspace Help

applicationschedule.apxc ApplicationBatchTest.apxc

Code Coverage: None API Version: 53

```
1 public class ApplicationBatchTest implements Database.Batchable<Object>, Database.Stateful{
2     public Integer totalForms = 0;
3     public Integer totalConvertedForms = 0;
4     public Database.QueryLocator start(Database.BatchableContext bc){
5         String applicationQuery = 'select id, name, Ready_to_Join__c from Application_form__c';
6         return Database.getQueryLocator(applicationQuery);
7     }
8     public void execute(Database.BatchableContext bc, List<Application_form__c> formlist){
9         for(Application_form__c af : formlist){
10             totalConvertedForms++;
11         }
12     }
13
14
15     public void finish(Database.BatchableContext bc){
16         Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
17         mail.setSubject('Application form And Student Record data as of today');
18         mail.setPlainTextBody('Total no of application form records are : '+totalForms+'out of which no of students as per today');
19         String[] emailAddress = new String[]{'your email address'};
20         mail.setToAddresses(emailAddress);
21     }
```

Logs, Tests, and Problems

```
1 public class applicationschedule implements Schedulable{
2
3
4
5     public void execute(SchedulableContext sc){
6         ApplicationBatchTest abt = new ApplicationBatchTest();
7         Database.executeBatch(abt, 400); // 200 to 2000
8     }
9 }
```

Scheduled jobs:

Scheduled Jobs

The All Scheduled Jobs page lists all of the jobs scheduled by your users. Multiple job types may display on this page. You can delete scheduled jobs if you have the permission to do so.

View: [All Scheduled Jobs](#) [Create New View](#)

Action	Job Name	Submitted By	Submitted	Started	Next Scheduled Run	Type
Manage Del	Application form Job	Kuchana_Ranjitha	1/11/2022, 1:04 AM		1/14/2022, 11:00 PM	Scheduled Apex
Del	Metalytics Data Loader Job for Org: 00D5j00005H4cnj	User Integration	1/4/2022, 7:15 AM	1/10/2022, 9:44 PM	1/11/2022, 9:44 PM	Autonomous Data Loader Job

Didn't find what you're looking for? Try using Global Search.

Day-8:

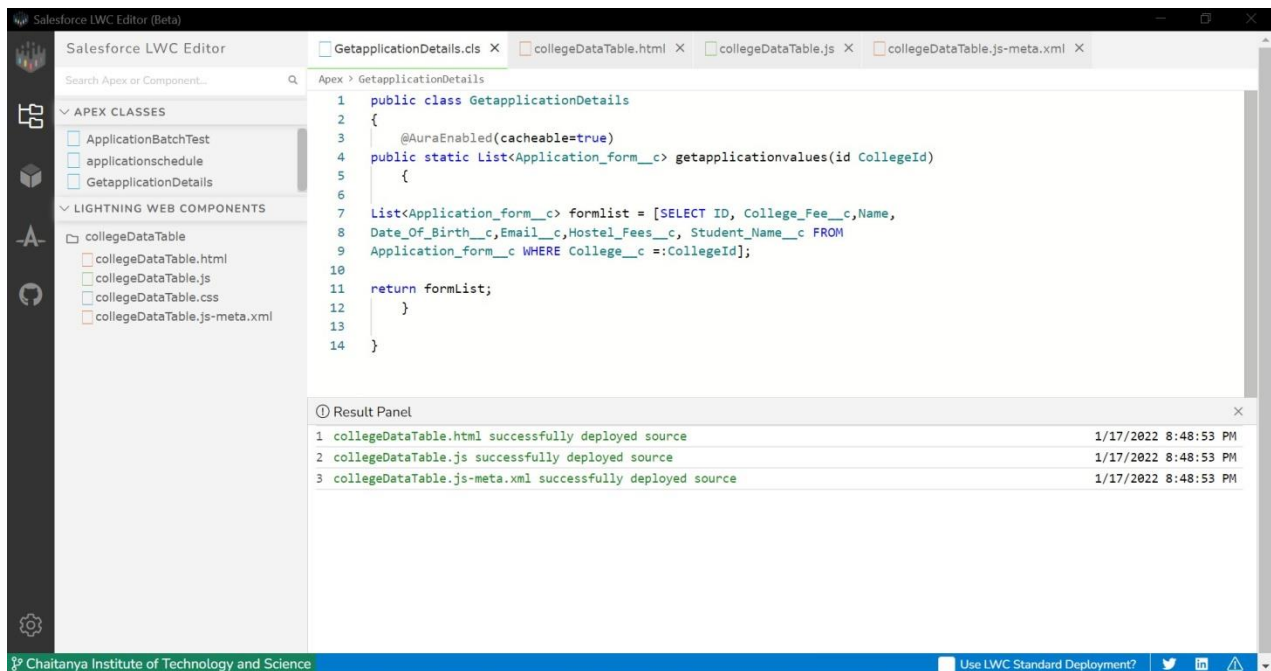
Topic : Lightning Web Components

Milestone/Activity :

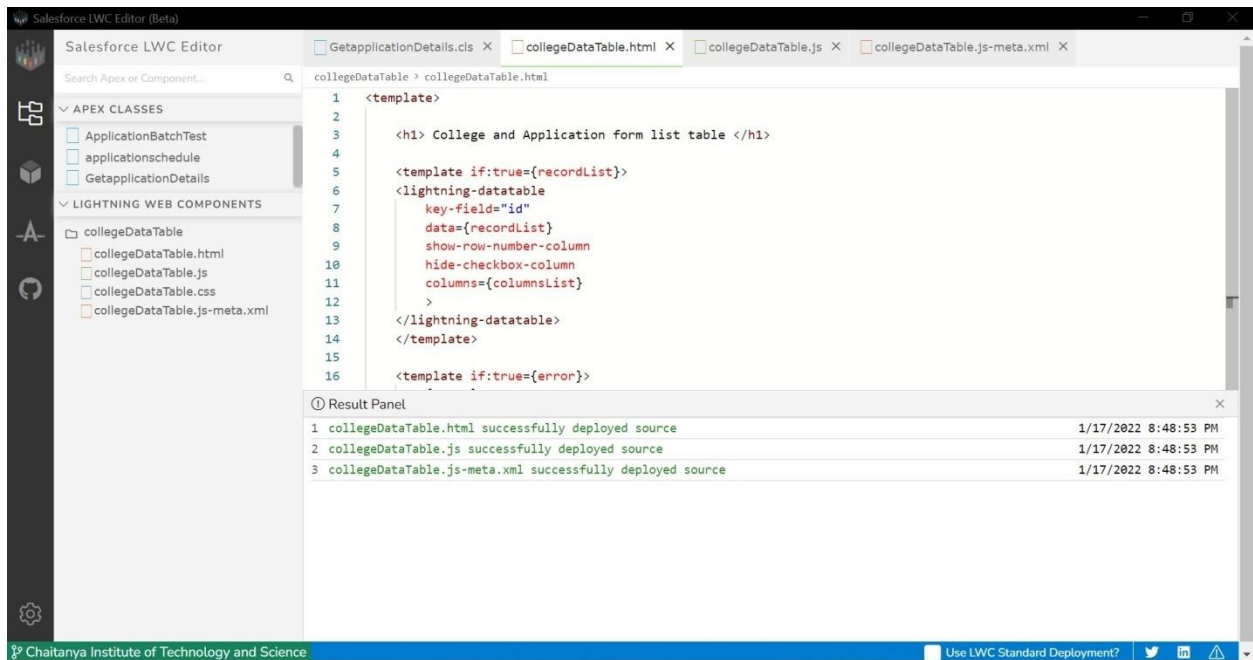
- Creating college data table component(Apex class)
- creating college data table component(HTML File)
- creating college data table component(Java Script)
- creating college data table component(Meta File)

Description :

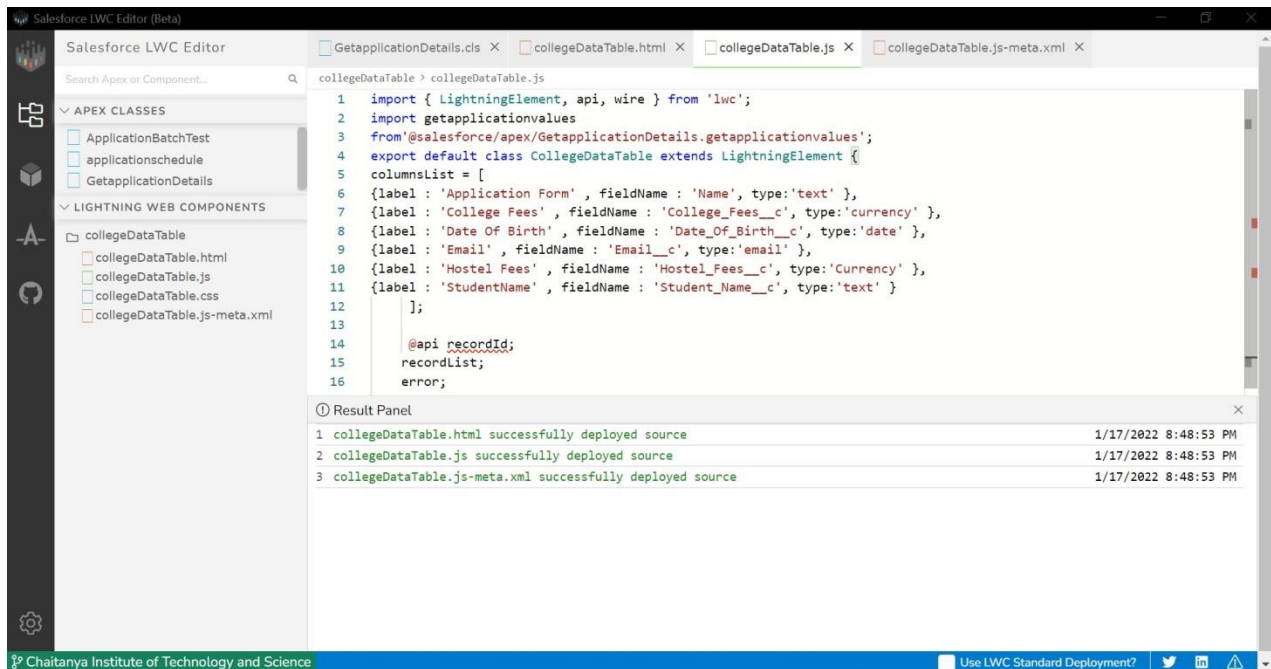
Creating college data table component(Apex class):



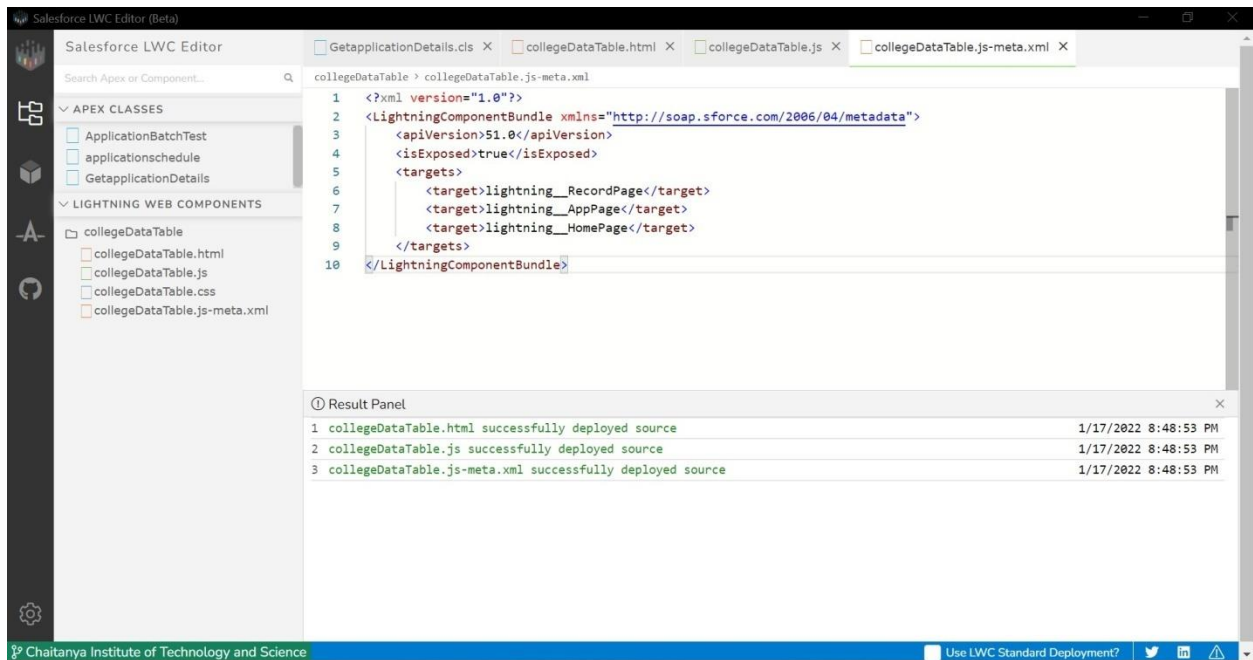
Creating college data table component(HTML File) :



Creating college data table component(Java Script File) :



Creating college data table component(Meta File) :



Data table in college object :

