

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 :

First name : Ranjitha & Last name :Kuchana

Email :kuchanaranjitha@gmail.com

Role : Developer

Company : Chaitanya Institute of Technology and Science

County : India

Postal Code : 506002

Username : ranjitha@chaitanya.com

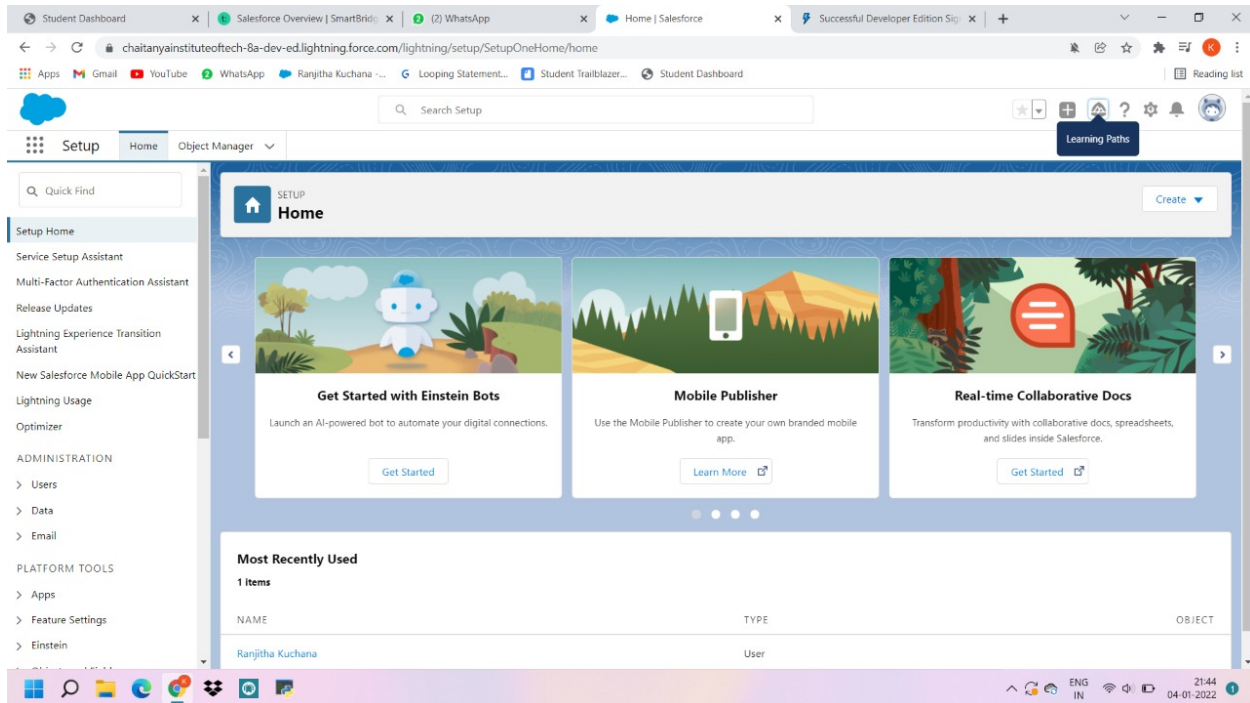
Click on sign up after filling these.

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. The fields listed are: College Email, College Fee, College Name, Created By, Hostel Fee, Last Modified By, No. of Seats, Owner, and Record info.

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.

Application Form | Salesforce

chaitanyainstituteoftech-8a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000dtpc/FieldsAndRelationships/view

Setup

Application Form

Details

Fields & Relationships

12 Items Sorted by Field Label

Quick Find

New Deleted Fields Field Dependencies Set History Tracking

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 Fees	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 :

Student | Salesforce

chaitanyainstituteoftech-8a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000dtwQ/FieldsAndRelationships/view

Setup

Student

Details

Fields & Relationships

11 Items Sorted by Field Label

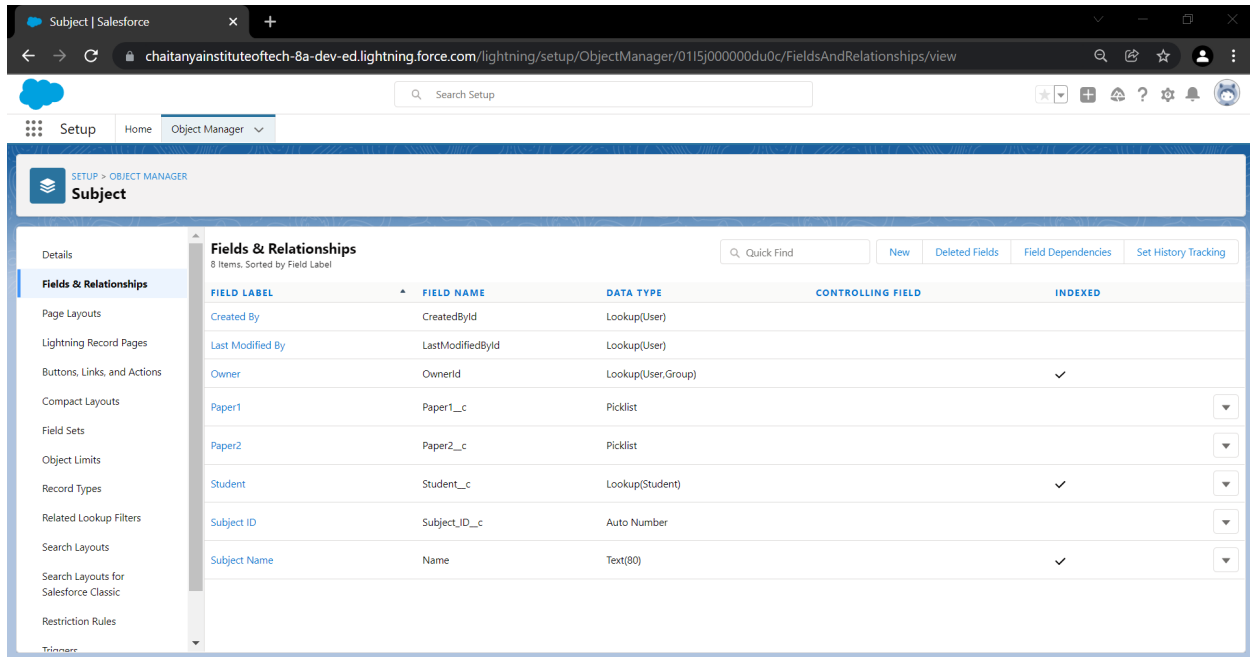
Quick Find

New Deleted Fields Field Dependencies Set History Tracking

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 :



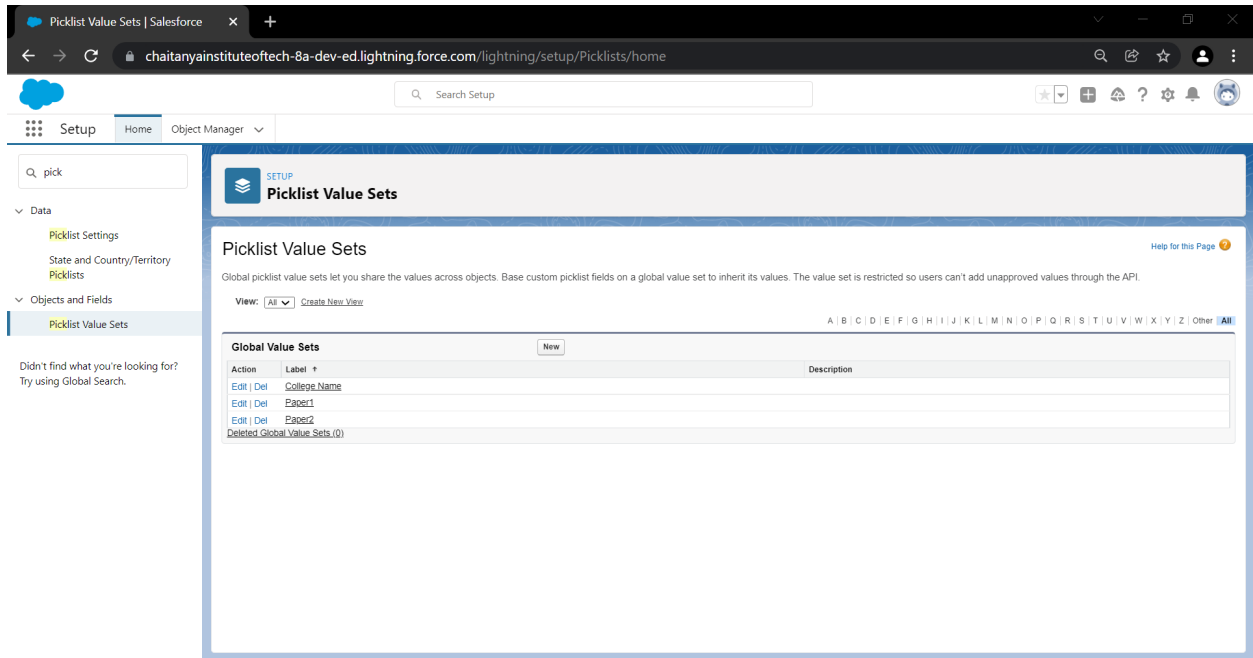
The screenshot shows the Salesforce Setup interface for the 'Subject' custom object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, Search Layouts for Salesforce Classic, Restriction Rules, and Triggers. The main content area is titled 'Fields & Relationships' and displays a table of fields for the 'Subject' object. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are Created By, Last Modified By, Owner, Paper1, Paper2, Student, Subject ID, and Subject Name. The 'Owner' field is marked as a CONTROLLING FIELD and indexed. The 'Paper1' and 'Paper2' fields are marked as indexed and have dropdown arrows next to them, indicating they are picklist fields.

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)		✓

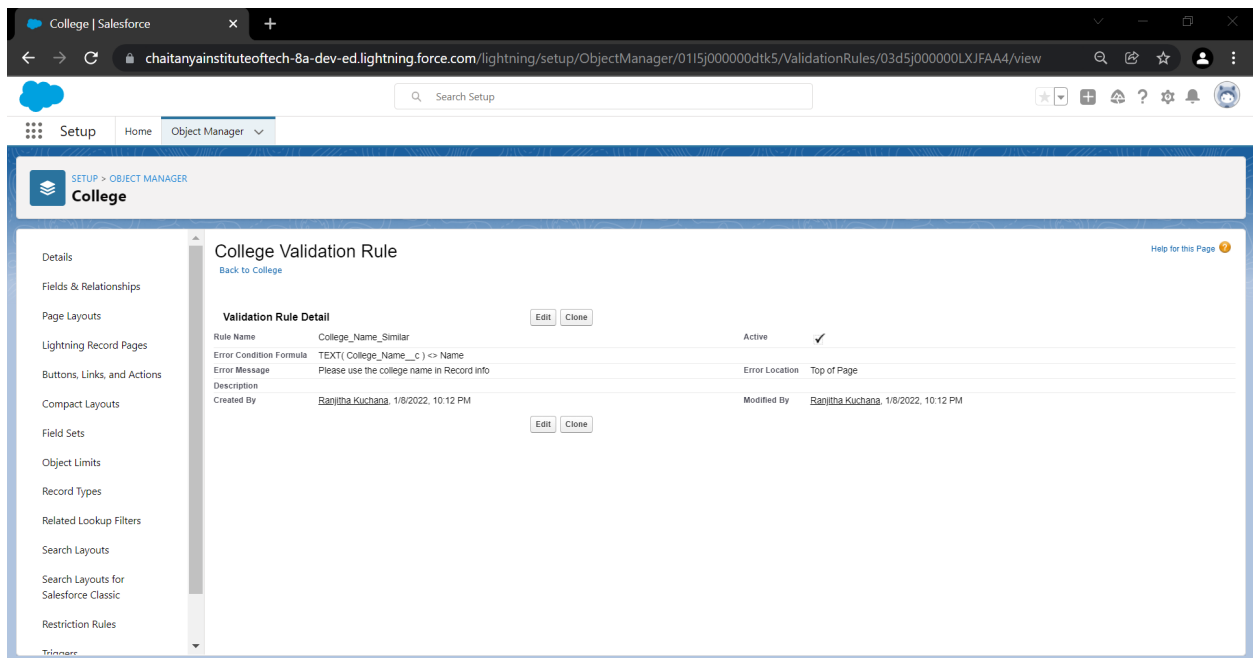
In Picklist Value sets Created 3 Picklist value sets

- College Name
- Paper 1
- Paper 2

Created Global Picklist Values :



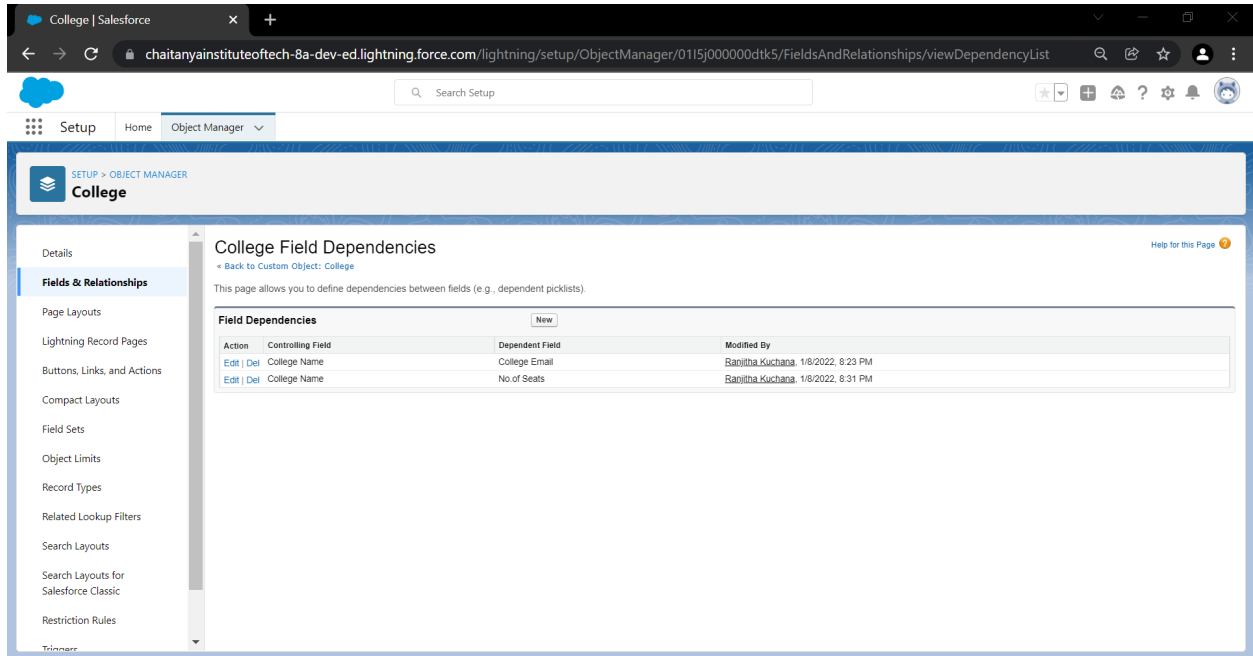
Creating Validation Rule :



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



The screenshot shows the Salesforce Setup interface for a custom object named 'College'. The left sidebar contains a navigation menu with options like Details, Fields & Relationships (selected), 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, and Triggers. The main content area is titled 'College Field Dependencies' and includes a 'Back to Custom Object: College' link. Below the title, a message states: 'This page allows you to define dependencies between fields (e.g., dependent picklists)'. A table titled 'Field Dependencies' lists two dependencies:

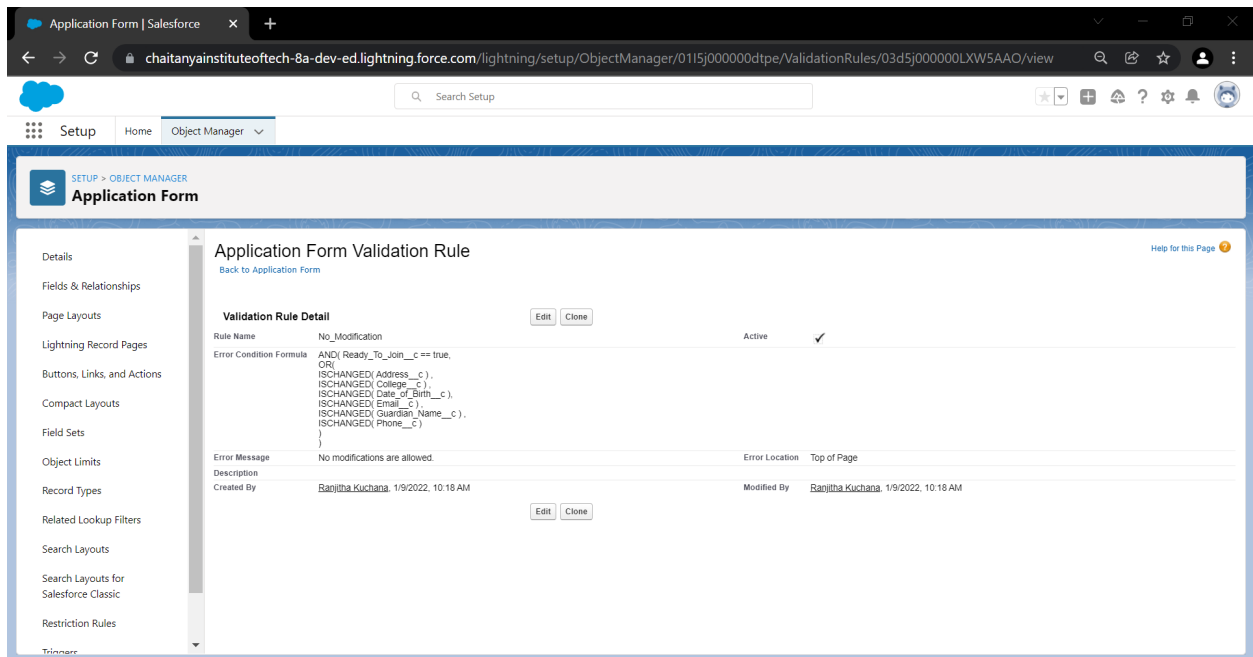
Action	Controlling Field	Dependent Field	Modified By
Edit Del	College Name	College Email	Ranjitha Kuchana, 1/8/2022, 8:23 PM
Edit Del	College Name	No of Seats	Ranjitha Kuchana, 1/8/2022, 8:31 PM

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.

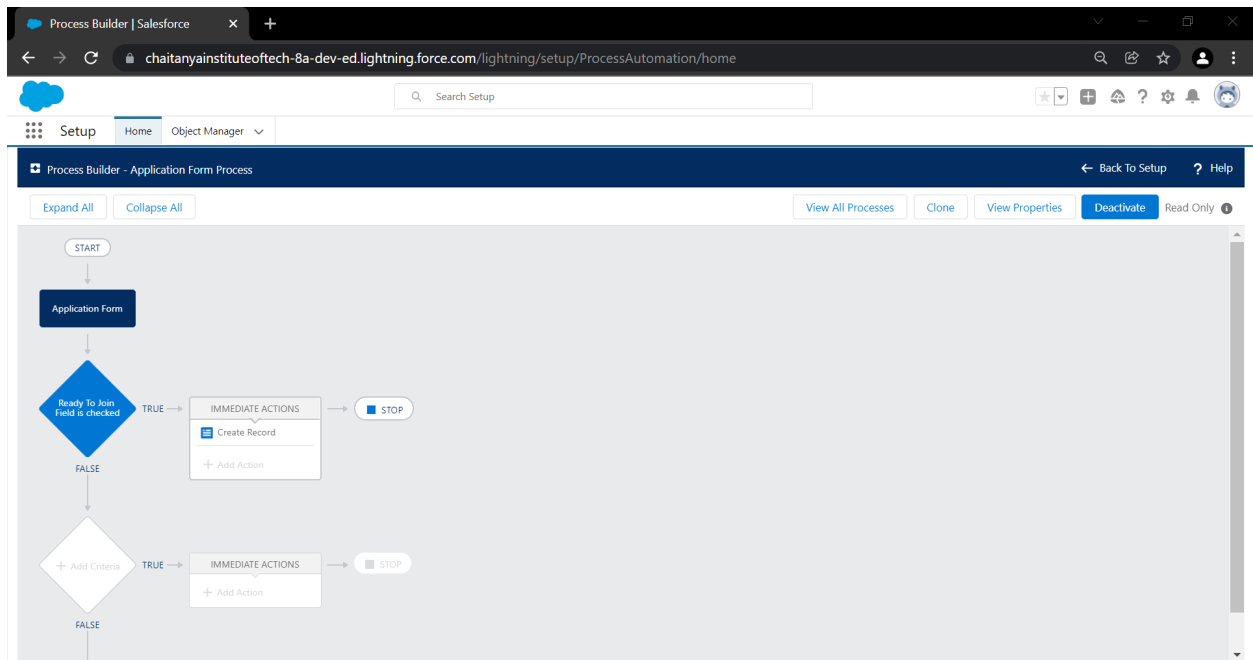


Day-5 :

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 to create the student record automatically with the information specified in the application form record.

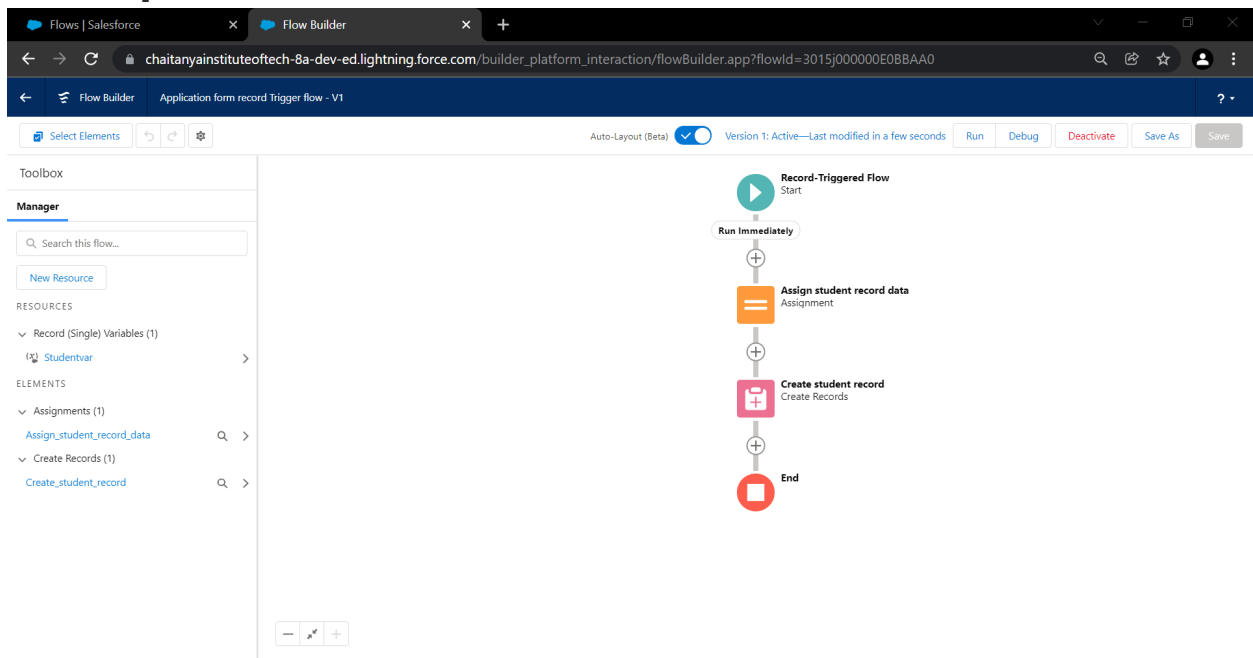


Day-6 :

Topic: Create the student record using flow

Milestone/Activities :Adding Business Logic to Application

Description :



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 search bar with 'apex' and a list of categories: Email, Custom Code, Apex Classes (selected), Apex Settings, Apex Test Execution, Apex Test History, Apex Triggers, Environments, and Jobs. The main content area is titled 'Apex Classes' and includes a 'Help for this Page' link. Below the title, there is a green status box indicating 'Percent of Apex Used: 0.03%' and a note about the 6,000,000 character limit. A link to 'Estimate your organization's code coverage' is provided. Below this, there is a 'View: All' dropdown and a 'Create New View' link. The main table lists three Apex Classes:

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	218	Ranjitha Kuchana 1/16/2022, 4:30 AM	<input type="checkbox"/>
Edit Del Security	GetapplicationDetails		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

- Email
 - Apex Exception Email
- Custom Code
 - Apex Classes
 - Apex Settings
 - Apex Test Execution
 - Apex Test History
 - Apex Triggers
- Environments
 - Jobs
 - Apex Flex Queue
 - Apex Jobs

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

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

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 Go To

```
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

```
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 Go To

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 }
```

Logs, Tests, and Problems

Scheduled jobs:

Scheduled Jobs | Salesforce

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

Setup Home Object Manager

Q job

Environments

- Jobs
 - Apex Flex Queue
 - Apex Jobs
 - Background Jobs
 - Bulk Data Load Jobs
 - Scheduled Jobs

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

Scheduled Jobs

All 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_Raciltha	1/11/2022, 1:04 AM		1/14/2022, 11:00 PM	Scheduled Apex
Del	Metalytics Data Loader Job for Org: 00D5p000005Hcnj	User: Integration	1/4/2022, 7:15 AM	1/10/2022, 9:44 PM	1/11/2022, 9:44 PM	Autonomous Data Loader Job

Day-8:

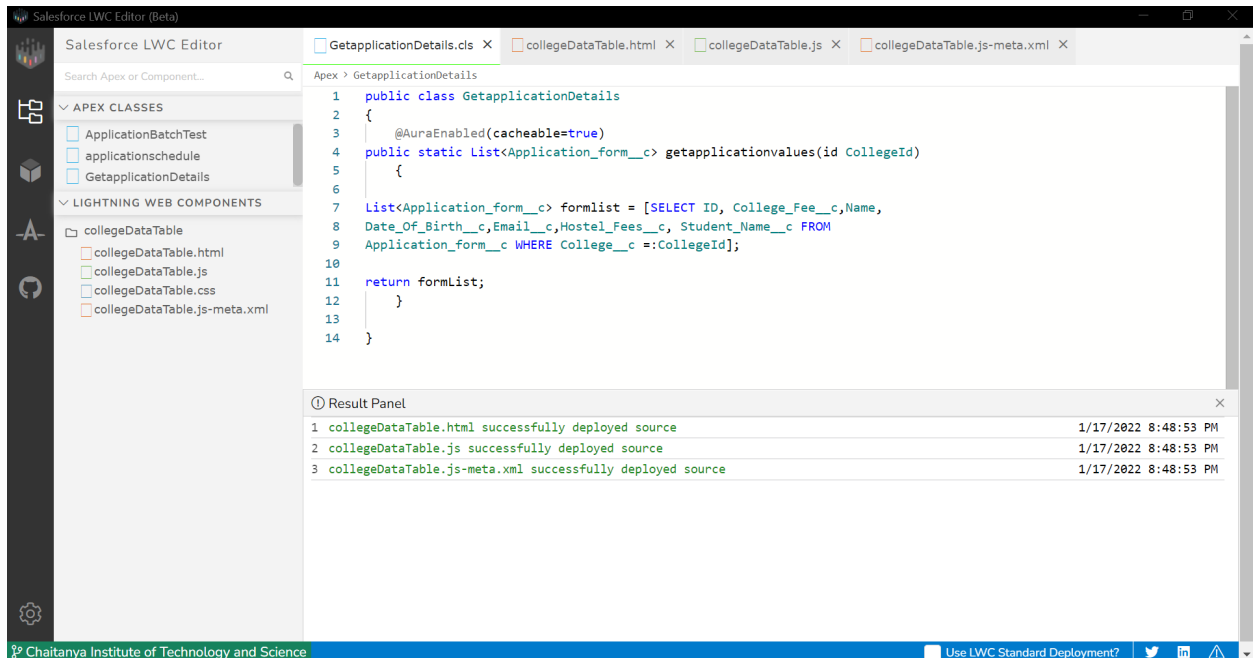
Topic : Lightning Web Components

Milestone/Activity :

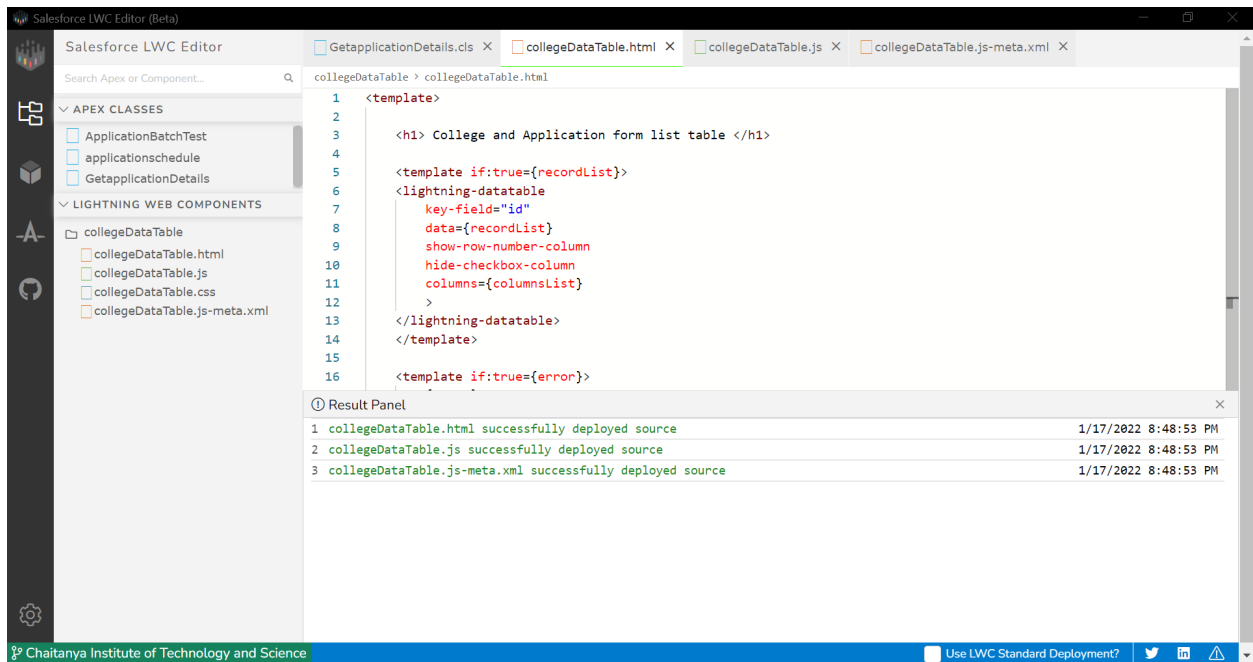
- Creating college data table component(Apex class)
- creating college data table component(HTML File)
- creating college data table component(Java Script)
- creating college data table component(Meta File)

Description :

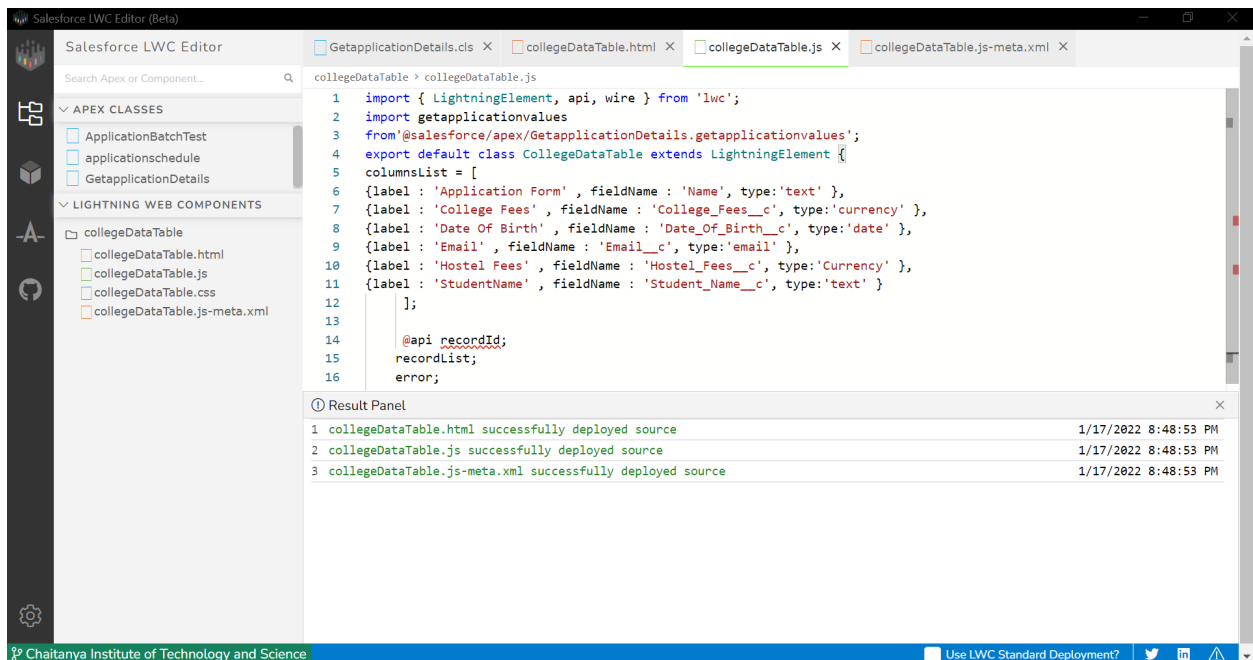
Creating college data table component(Apex class):



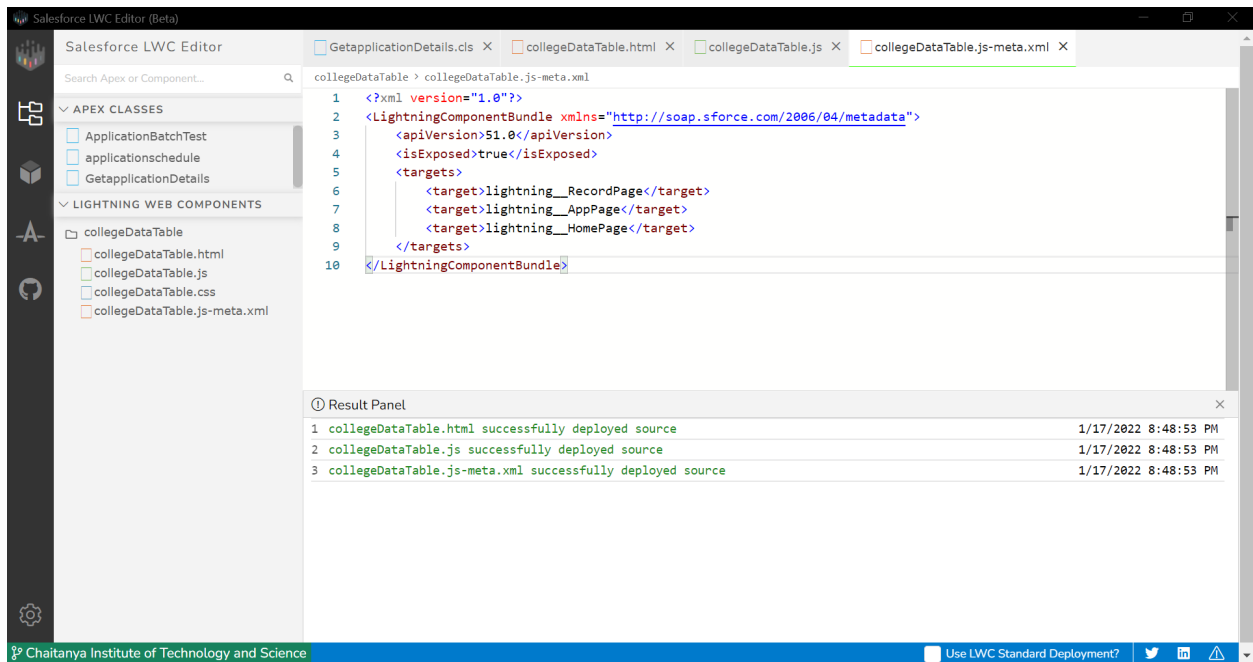
Creating college data table component(HTML File) :



Creating college data table component(Java Script File) :



Creating college data table component(Meta File) :



Data table in college object :

Apex Classes | Salesforce | College Record Page - Lightning | MIT-HYD | Salesforce

chaitanyainstituteoftech-8a-dev-ed.lightning.force.com/lightning/r/College__c/a005j000006U2mLAAS/view

College Management | Colleges | Application Forms | Students | Subjects

College MIT-HYD

Related Details **Data Table**

College and Application form list table

	Application Fo...	College Fees	Date Of Birth	Email	Hostel Fees	StudentName
1	Form-00000002			ranjith@gmail.c...	150000	Ranjith
2	Form-00000003			someone@gmai...	150000	someone

Activity

New Event New Task Log a Call Email

Set up an event... Add

Filters: All time • All activities • All types

Refresh • Expand All • View All

Upcoming & Overdue

No next steps.
To get things moving, add a task or set up a meeting.

No past activity. Past meetings and tasks marked as done show up here.