

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 :
 1. First name : Saipranavi & Last name : Chintala
 2. Email : saipranavichintala16@gmail.com
 3. Role : Developer
 4. Company : Chaitanya Institute of Technology and Science
 5. County : India
 6. Postal Code : 506001
 7. Username : saipranavi@chaitanyainstitute.com

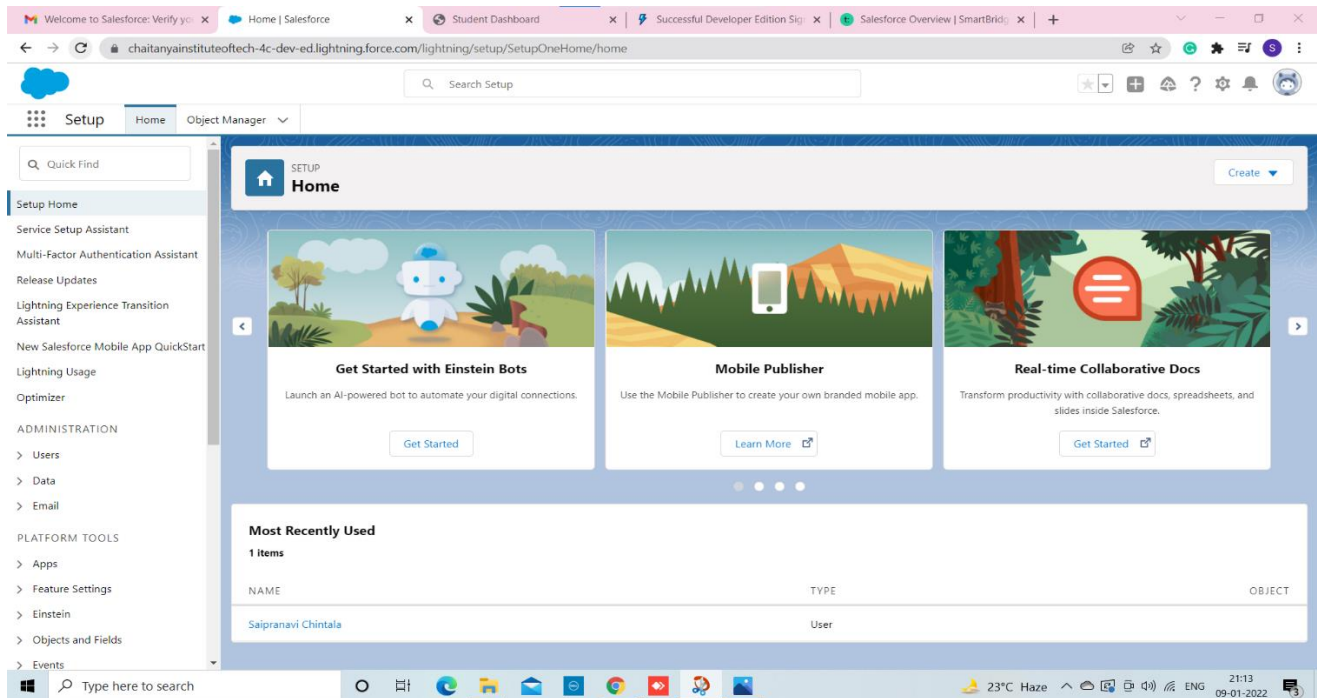
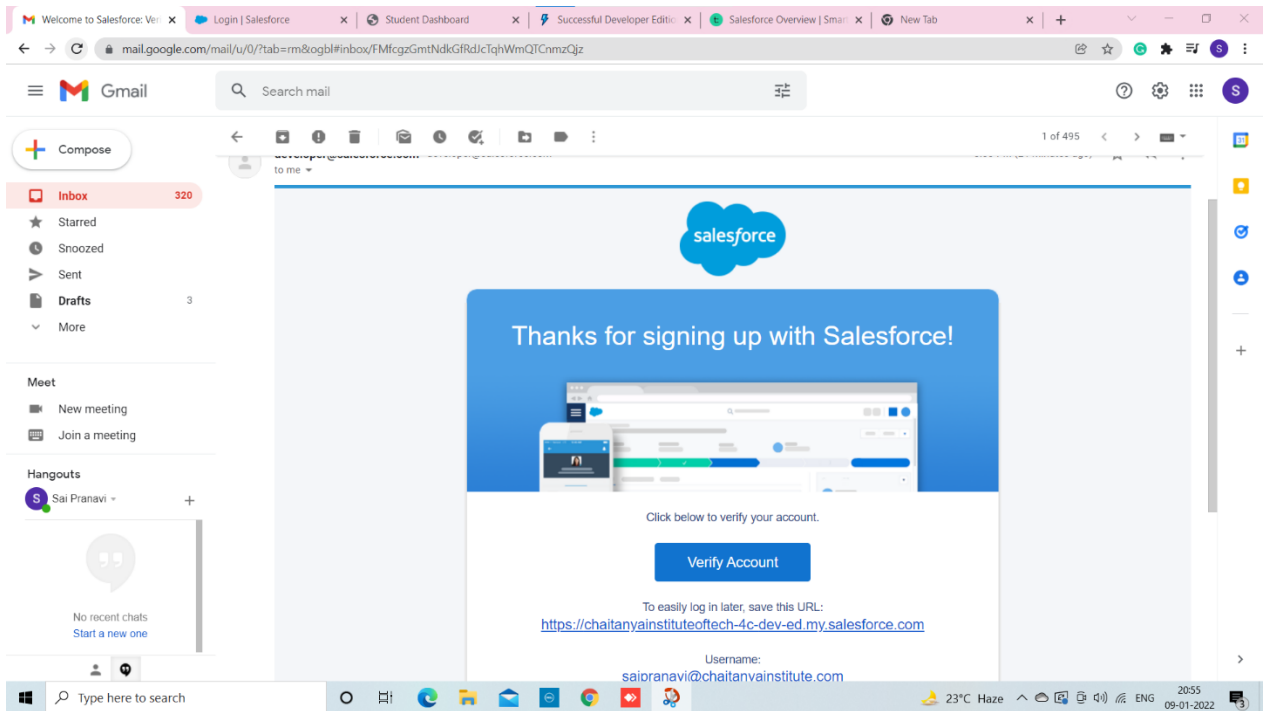
Click on sign up after filling these.

Account Activation :

-
- Verified mail account and activated the account.

Login to your Salesforce Customer Account :

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



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 Object Manager interface for a custom object named 'College'. The 'Fields & Relationships' tab is selected, displaying a list of 10 fields. The fields are sorted by Field Label. The table below represents the data shown in the screenshot:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity Of Students	Capacity_Of_Students__c	Picklist	College Name	
College Fee	College_Fee__c	Currency(7, 2)		
College Name	College_Name__c	Picklist		
College Name	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		
Email	Email__c	Picklist	College Name	
Hostel Fee	Hostel_Fee__c	Currency(6, 2)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Record Info	Record_Info__c	Text(100)		

The screenshot shows the 'New College' form in Salesforce. The form is divided into two main sections: 'Information' and 'System Information'. The 'Information' section contains the following fields:

- College Name:** A required field (indicated by an asterisk) with a dropdown menu showing '--None--'. A red border and the text 'Complete this field. View all dependencies' are visible below the dropdown.
- Owner:** A field with a user icon and the name 'Saipranavi Chintala'.
- Email:** A required field (indicated by an asterisk) with a dropdown menu showing '--None--'.
- Capacity Of Students:** A required field (indicated by an asterisk) with a dropdown menu showing '--None--'.
- College Fee:** A currency field.
- Hostel Fee:** A currency field.

The 'System Information' section contains the following field:

- Record Info:** A required field (indicated by an asterisk) with a text input field.

At the bottom of the form, there are three buttons: 'Cancel', 'Save & New', and 'Save'.

Day-3 :

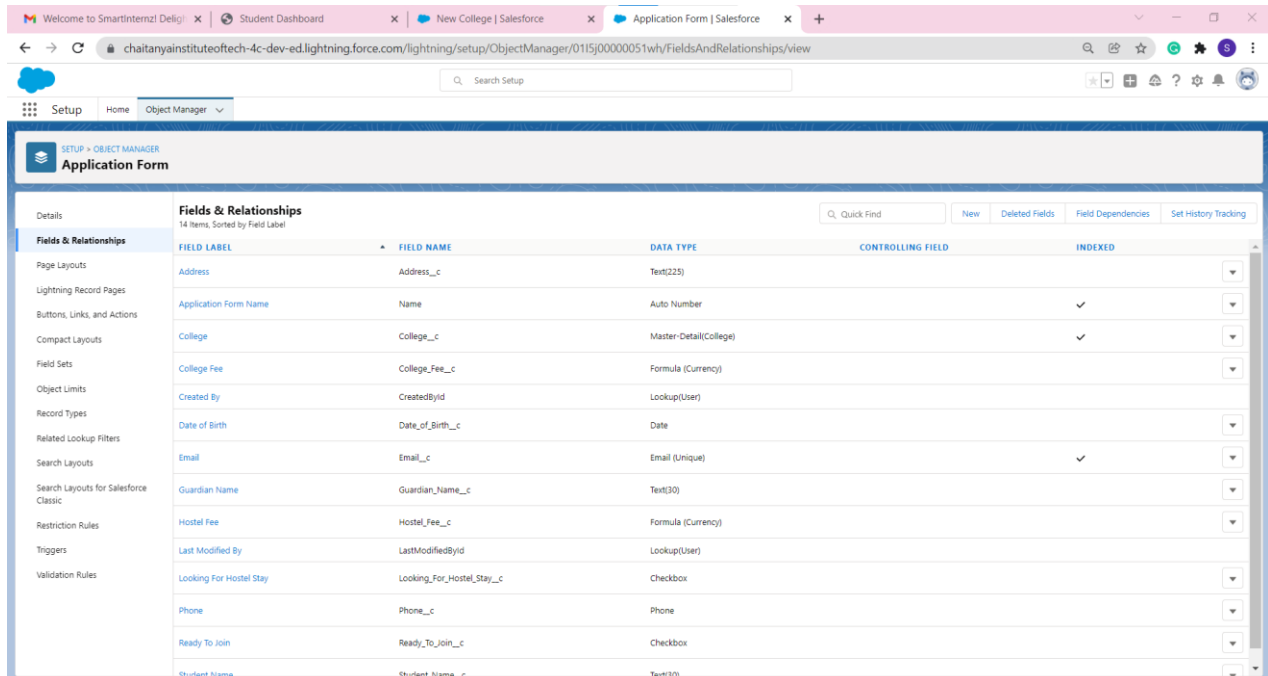
Topic: Custom Object Creation

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.



The screenshot shows the Salesforce Setup interface for the 'Application Form' custom object. The 'Fields & Relationships' tab is selected, displaying a list of 14 fields. The fields are sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Index. The fields listed are: Address (Text(225)), Application Form Name (Auto Number), College (Master-Detail(College)), College Fee (Formula (Currency)), Created By (Lookup(User)), Date of Birth (Date), Email (Email (Unique)), Guardian Name (Text(30)), Hostel Fee (Formula (Currency)), Last Modified By (Lookup(User)), Looking For Hostel Stay (Checkbox), Phone (Phone), Ready To Join (Checkbox), and Student Name (Text(75)).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEX
Address	Address__c	Text(225)		
Application Form Name	Name	Auto Number		✓
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)		✓
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(75)		

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

Student Object :

Setup > OBJECT MANAGER
Student

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

Details

Description

API Name
Student__c

Custom
✓

Singular Label
Student

Plural Label
Students

Enable Reports
✓

Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Edit Delete

Student Fields :

Setup > OBJECT MANAGER
Student

Fields & Relationships

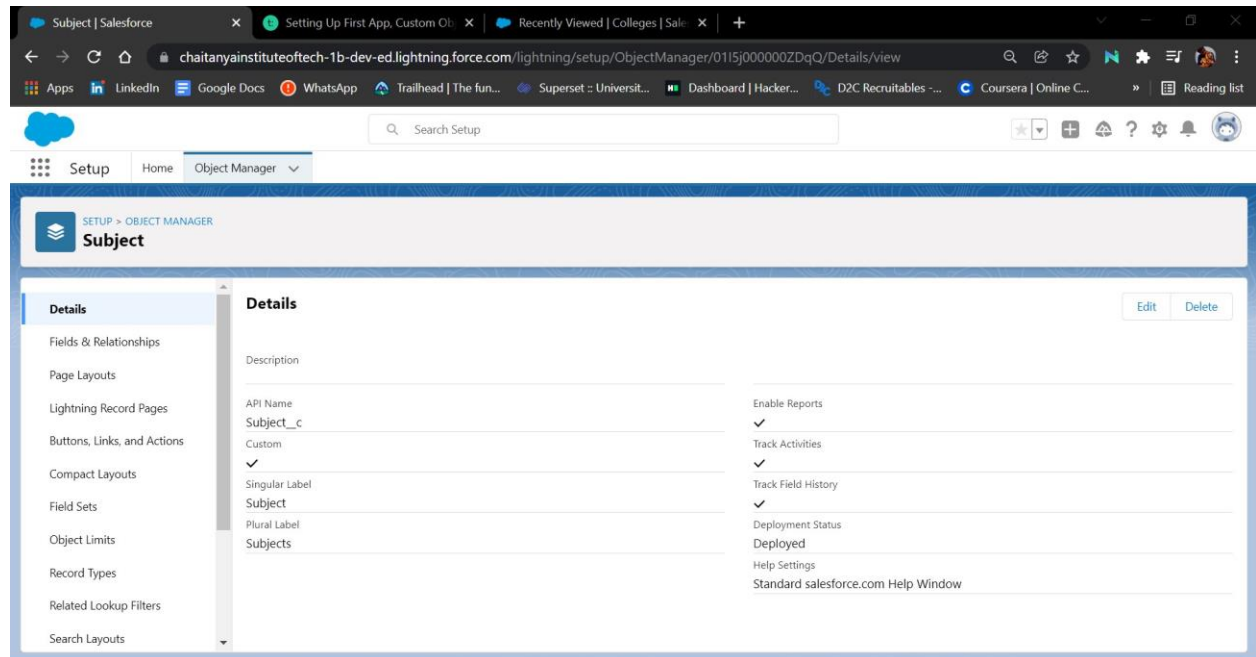
11 Items. Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(225)		
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(30)		
Student Name	Name	Text(80)		✓

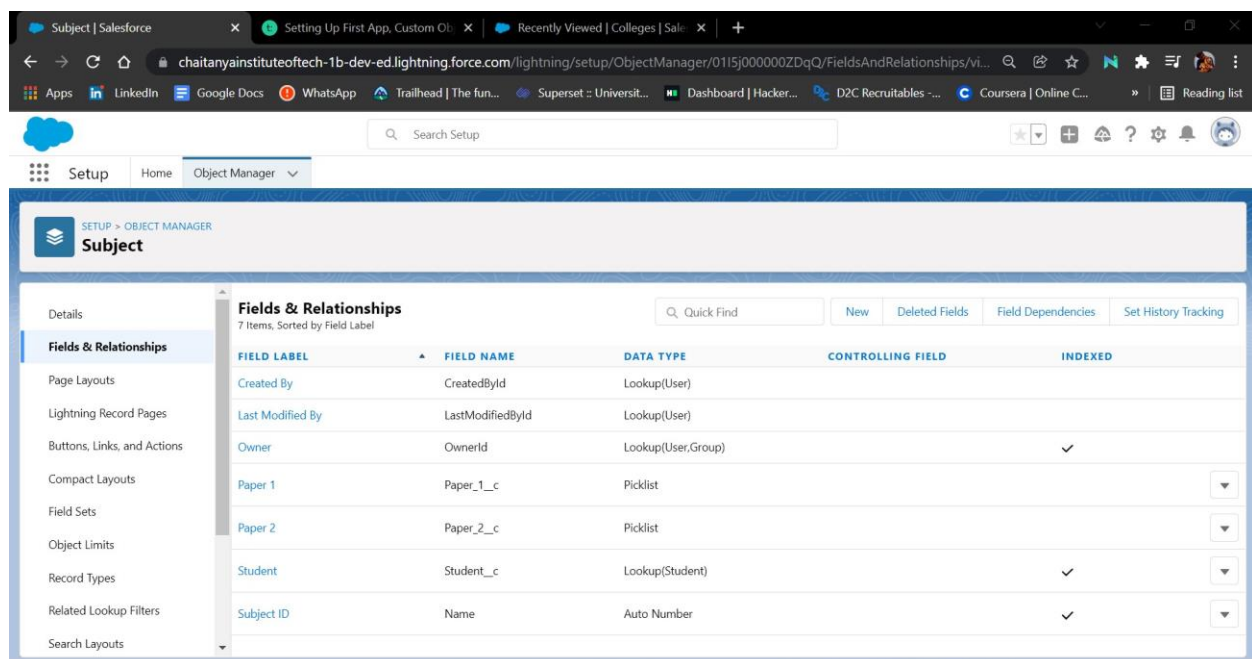
Created a Subject custom object and created Fields for the custom object Subject.

Subject Object :



The screenshot shows the Salesforce Setup interface for a custom object named "Subject". The left sidebar contains a navigation menu with options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Search Layouts. The main content area is titled "Details" and includes a description field, API Name (Subject__c), Custom checkbox, Singular Label (Subject), Plural Label (Subjects), and a list of settings: Enable Reports (checked), Track Activities (checked), Track Field History (checked), Deployment Status (Deployed), and Help Settings (Standard salesforce.com Help Window). Edit and Delete buttons are visible in the top right corner.

Subject Fields :



The screenshot shows the Salesforce Setup interface for the "Subject" custom object, specifically the "Fields & Relationships" section. The left sidebar is the same as the previous screenshot. The main content area is titled "Fields & Relationships" and includes a search bar, "New", "Deleted Fields", "Field Dependencies", and "Set History Tracking" buttons. Below these is a table listing the fields and their relationships.

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)		✓
Paper 1	Paper_1__c	Picklist		
Paper 2	Paper_2__c	Picklist		
Student	Student__c	Lookup(Student)		✓
Subject ID	Name	Auto Number		✓

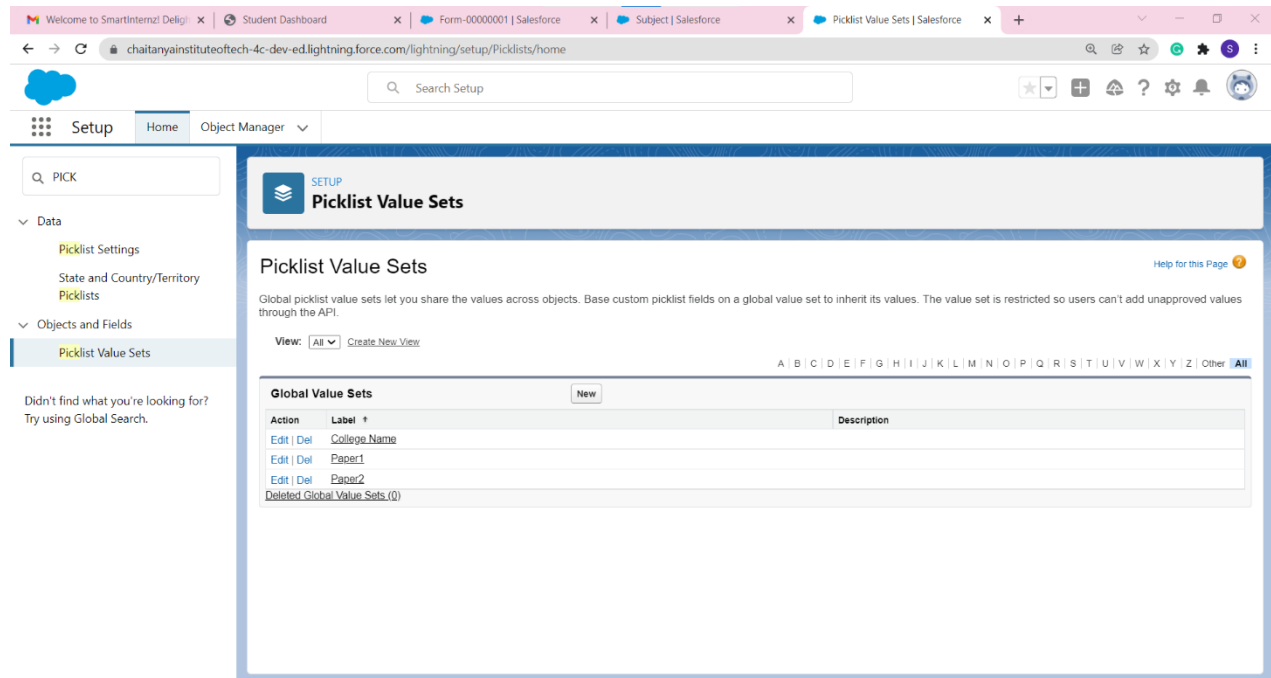
In Picklist Value sets Created 3 Picklist value sets

➤ College Name

➤ Paper 1

➤ Paper 2

Created Global Picklist Values :



The screenshot shows the Salesforce Setup interface for Picklist Value Sets. The left sidebar contains a search bar with 'PICK' and a navigation menu with 'Data', 'Picklist Settings', 'State and Country/Territory', 'Picklists', 'Objects and Fields', and 'Picklist Value Sets'. The main content area is titled 'Picklist Value Sets' and includes a description: 'Global picklist value sets let you share the values across objects. Base custom picklist fields on a global value set to inherit its values. The value set is restricted so users can't add unapproved values through the API.' Below this, there is a 'View: All' dropdown and a 'Create New View' link. A table titled 'Global Value Sets' displays three entries: 'College Name', 'Paper1', and 'Paper2'. Each entry has 'Edit' and 'Del' links. At the bottom of the table, it says 'Deleted Global Value Sets (0)'. The top of the browser window shows several tabs, including 'Welcome to SmartInternz! Deligi...', 'Student Dashboard', 'Form-00000001 | Salesforce', 'Subject | Salesforce', and 'Picklist Value Sets | Salesforce'.

Setup Home Object Manager

Q PICK

▼ Data

- Picklist Settings
- State and Country/Territory
- Picklists

▼ Objects and Fields

- Picklist Value Sets

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

Picklist Value Sets

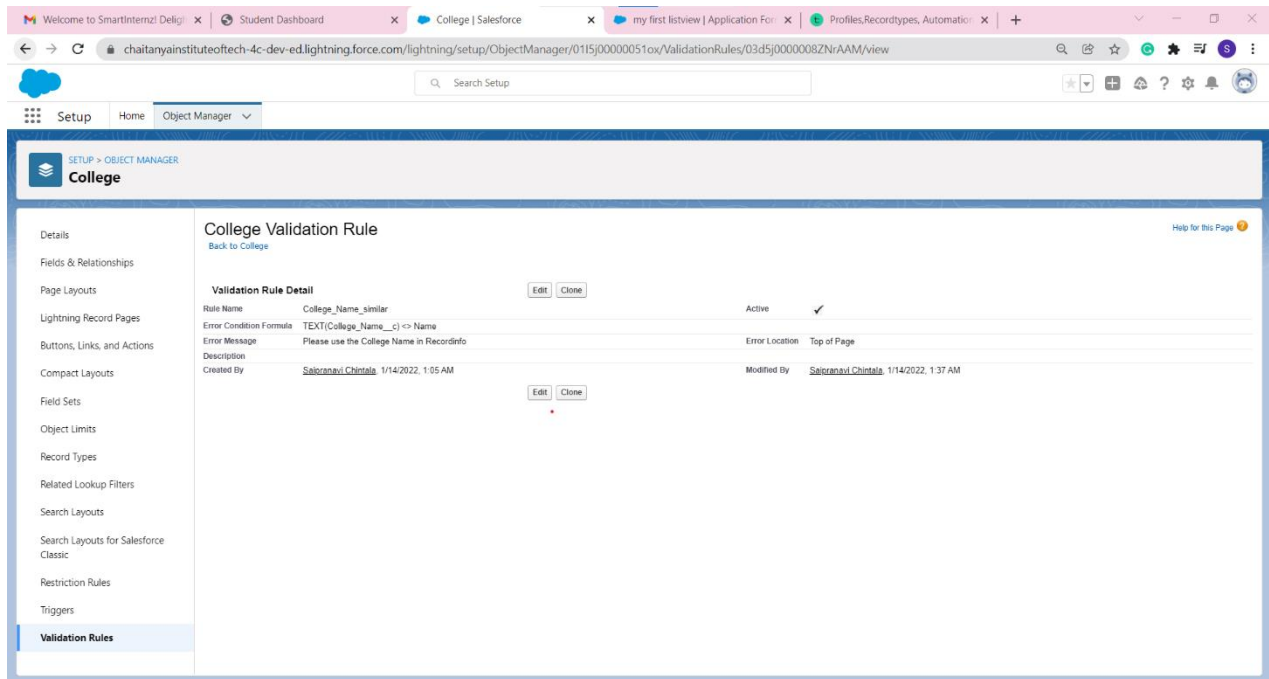
Global picklist value sets let you share the values across objects. Base custom picklist fields on a global value set to inherit its values. The value set is restricted so users can't add unapproved values through the API.

View: All Create New View

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

Action	Label ↑	Description
Edit Del	College Name	
Edit Del	Paper1	
Edit Del	Paper2	
Deleted Global Value Sets (0)		

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

Setup > OBJECT MANAGER
College

College Field Dependencies

[Back to Custom Object: College](#)

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

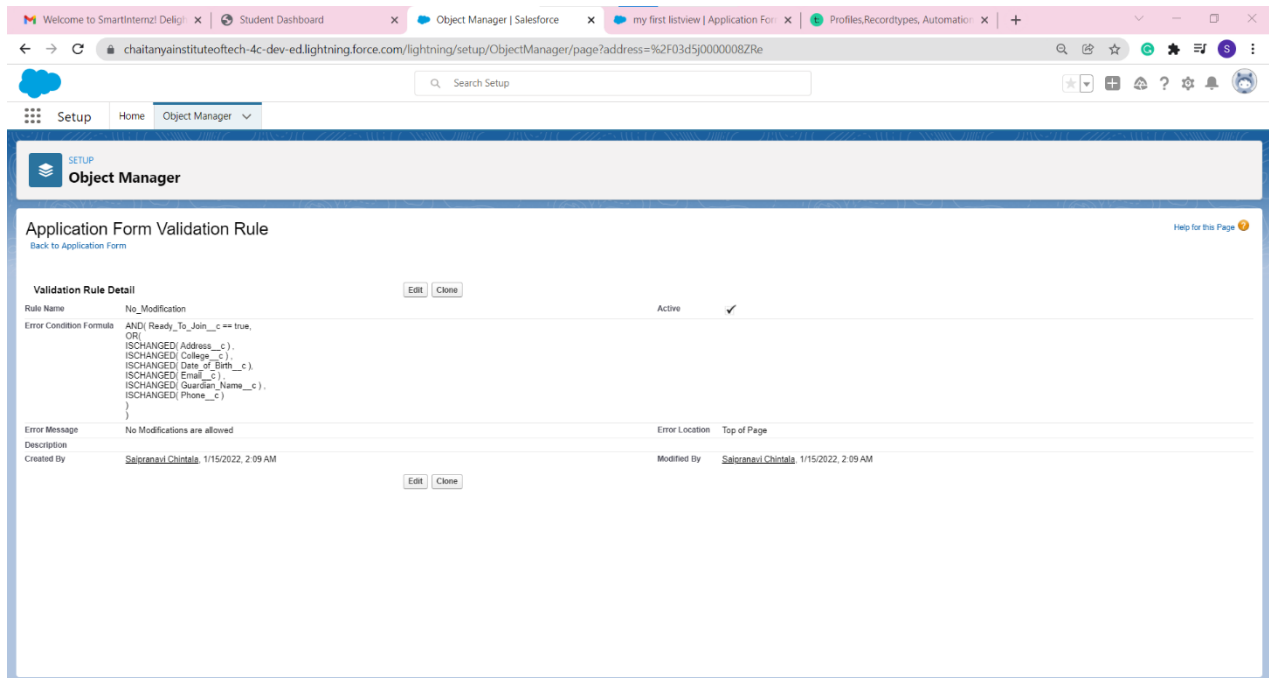
Action	Controlling Field	Dependent Field	Modified By
Edit Del	College Name	Email	SaloranaVi.Chintala, 1/13/2022, 8:52 AM
Edit Del	College Name	Capacity Of Students	SaloranaVi.Chintala, 1/13/2022, 8:59 AM

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.

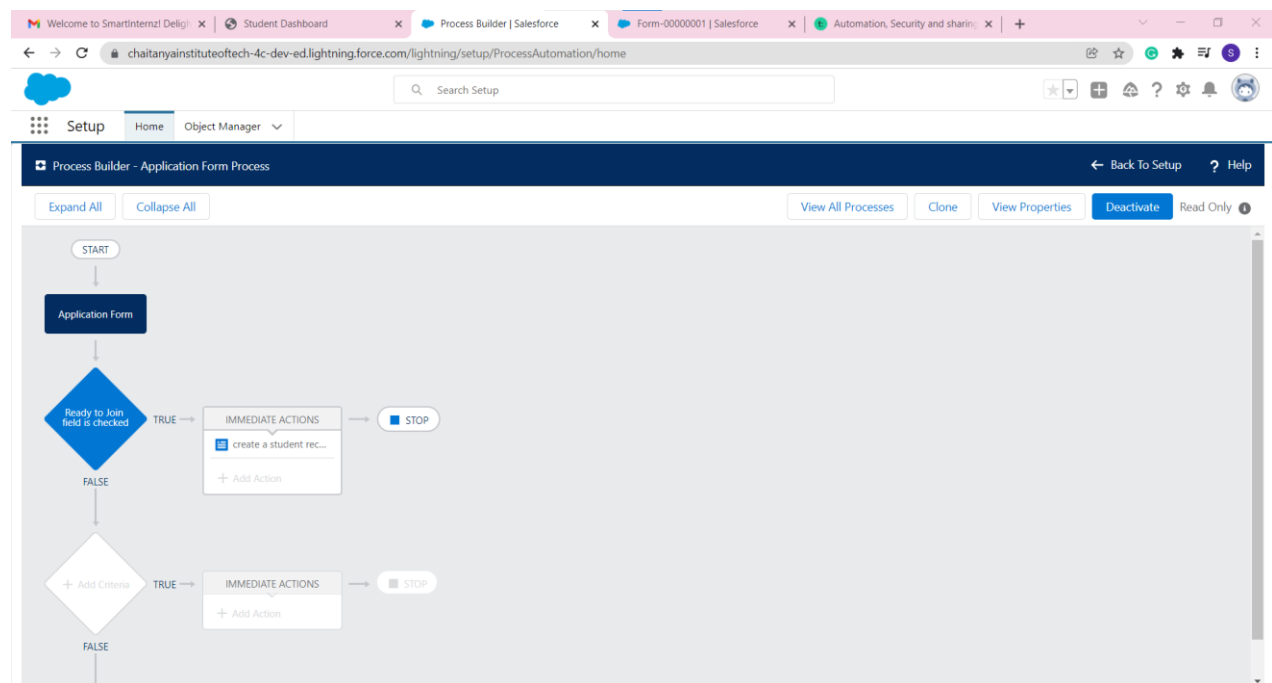
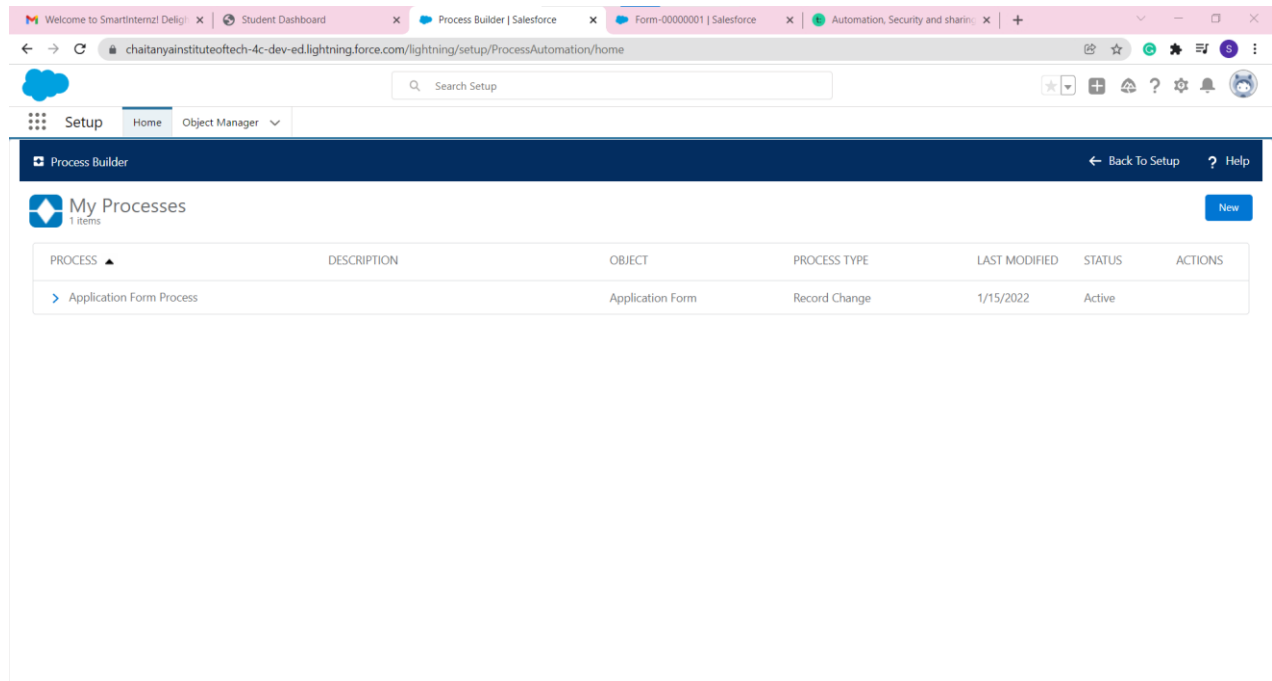


Day-5 :

Topic : Process Automation

Description :

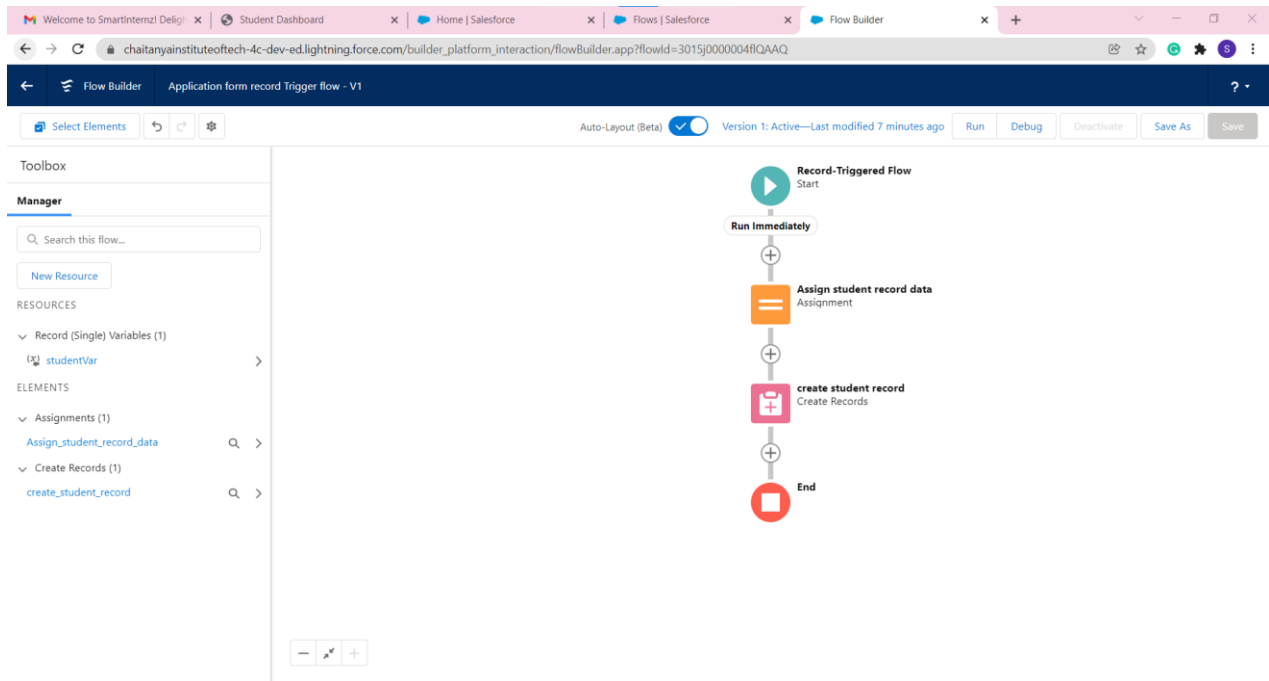
Created an automation process such that when the "ready to join" field is checked on the application form object it will to create the student record automatically with the information specified in the application form record.



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**

Welcome to Salesforce: Verify your identity | MIT-HYD | Salesforce | Apex Classes | Salesforce | Student Dashboard

chaitanyainstituteoftech-4c-dev-ed.lightning.force.com/lightning/setup/ApexClasses/home

Setup Home Object Manager

Search Setup

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 Classes

Apex Code is an object oriented programming language that allows developers to develop on-demand business applications on the Lightning Platform.

Percent of Apex Used: 0.03%
You are currently using 1,828 characters of Apex Code (excluding comments and @IsTest annotated classes) in your organization, out of an allowed limit of 6,000,000 characters. Note that the amount in use includes both Apex Classes and Triggers defined in your organization.

Estimate your organization's code coverage

Compile all classes

View: [All] Create New View

Action	Name	Namespace Prefix	Api Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit Del Security	ApplicationBatchTest		53.0	Active	1,246	Sajranavi Chintala: 1/17/2022, 12:01 AM	<input type="checkbox"/>
Edit Del Security	applicationSchedule		53.0	Active	221	Sajranavi Chintala: 1/15/2022, 5:33 AM	<input type="checkbox"/>
Edit Del Security	GetapplicationDetails		53.0	Active	361	Sajranavi Chintala: 1/18/2022, 12:29 AM	<input type="checkbox"/>

Developer console codes :

Developer Console - Google Chrome

chaitanyainstituteoftech-4c-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

ApplicationBatchTest.apxc applicationSchedule.apxc

Code Coverage: None API Version: 53

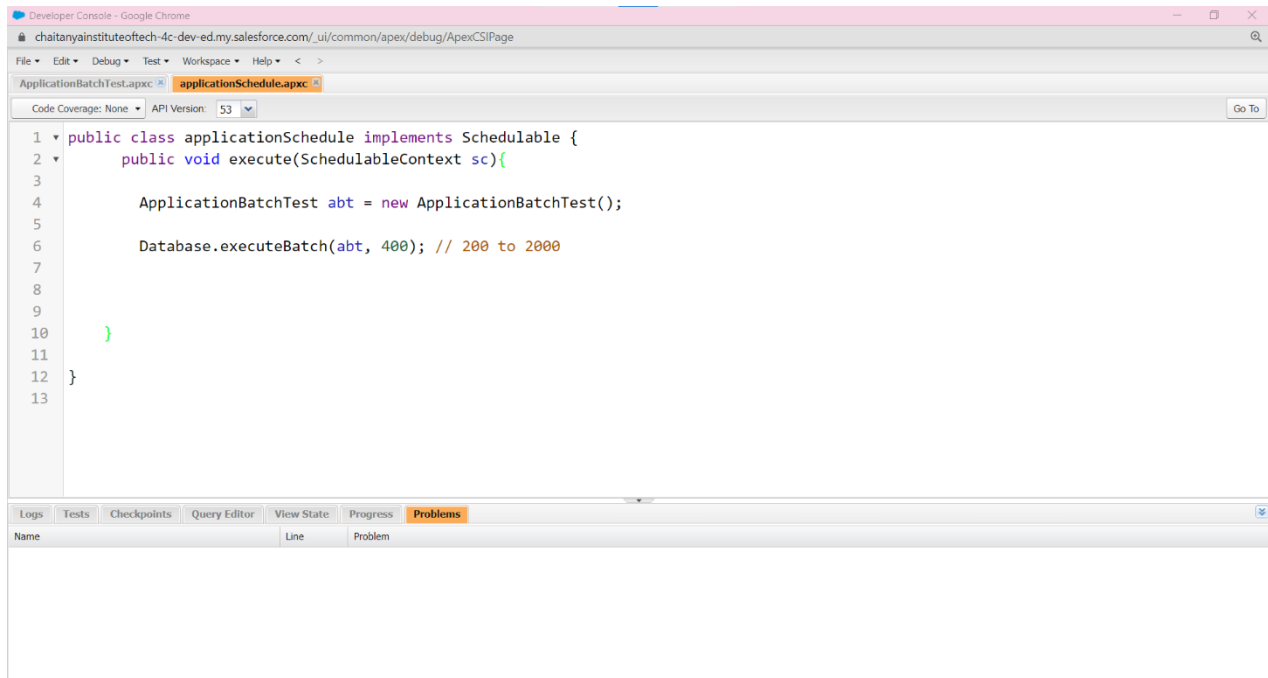
```

1 public class ApplicationBatchTest implements Database.Batchable<Object>, Database.Stateful{
2
3     //start(), execute(). finish()
4     public Integer totalForms = 0; // total no of application form
5     public Integer totalConvertedForms = 0; // total no of students
6     public Database.QueryLocator start(Database.BatchableContext bc){
7         // gathers the data for you
8         String applicationQuery = 'select id, Name, Ready_To_Join__c from Application_Form__c';
9         return Database.getQueryLocator(applicationQuery);
10    }
11    public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
12        // process the data
13        for(Application_Form__c af : formList){
14            totalForms++;
15            if(af.Ready_To_Join__c){
16                totalConvertedForms++;
17            }
18        }
19    }
20 }

```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name	Line	Problem
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Scheduled jobs:

Day-8:

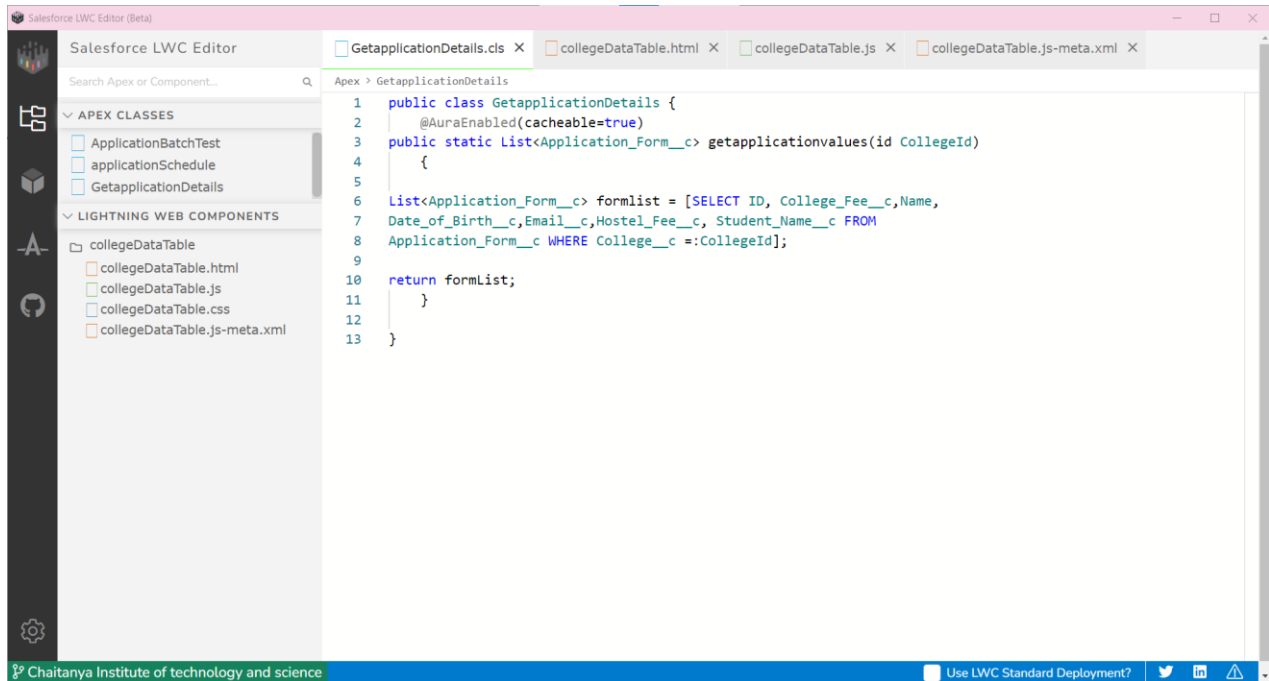
Topic : Lightning Web Components

Milestone/Activity :

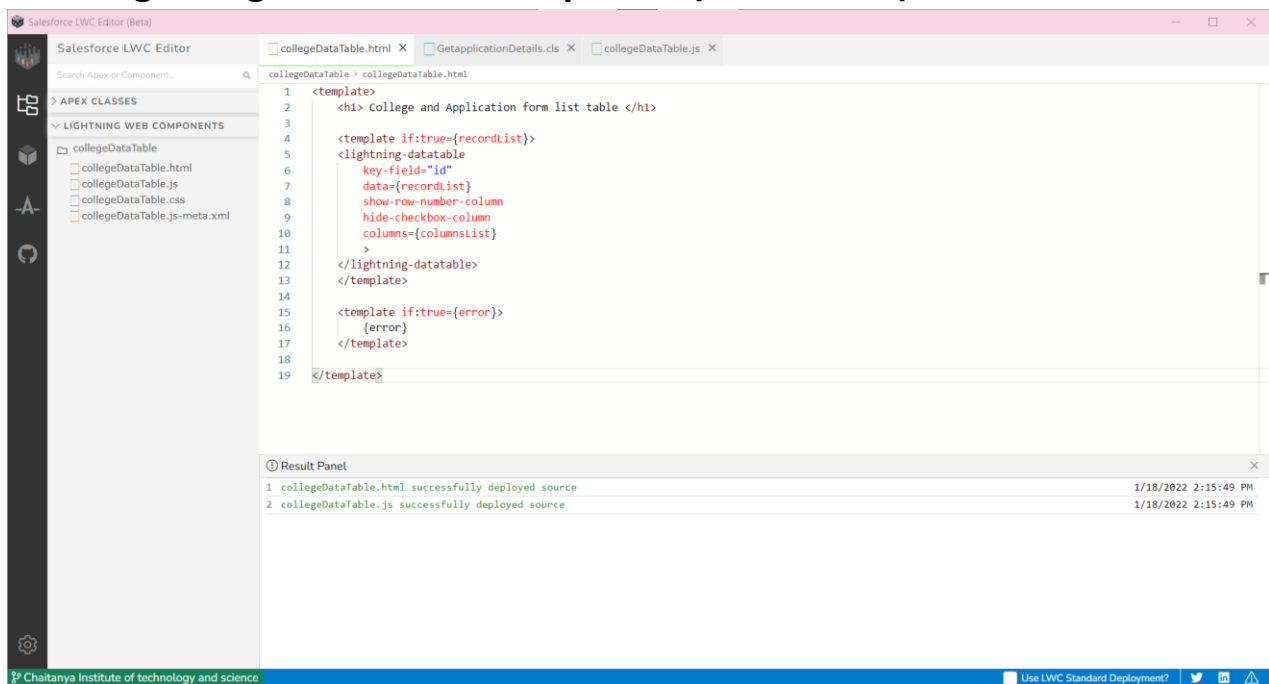
- Creating college data table component(Apex class)
- creating college data table component(HTML File)
- creating college data table component(Java Script)
- creating college data table component(Meta File)

Description :

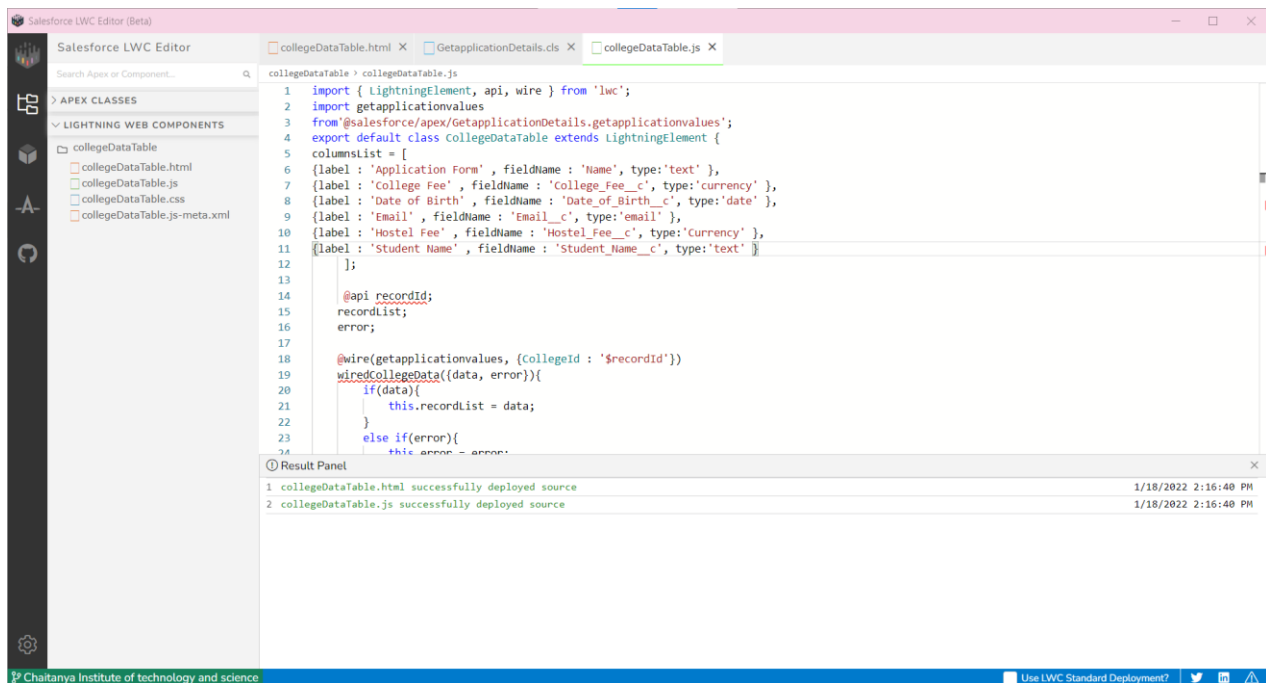
Creating college data table component(Apex class):



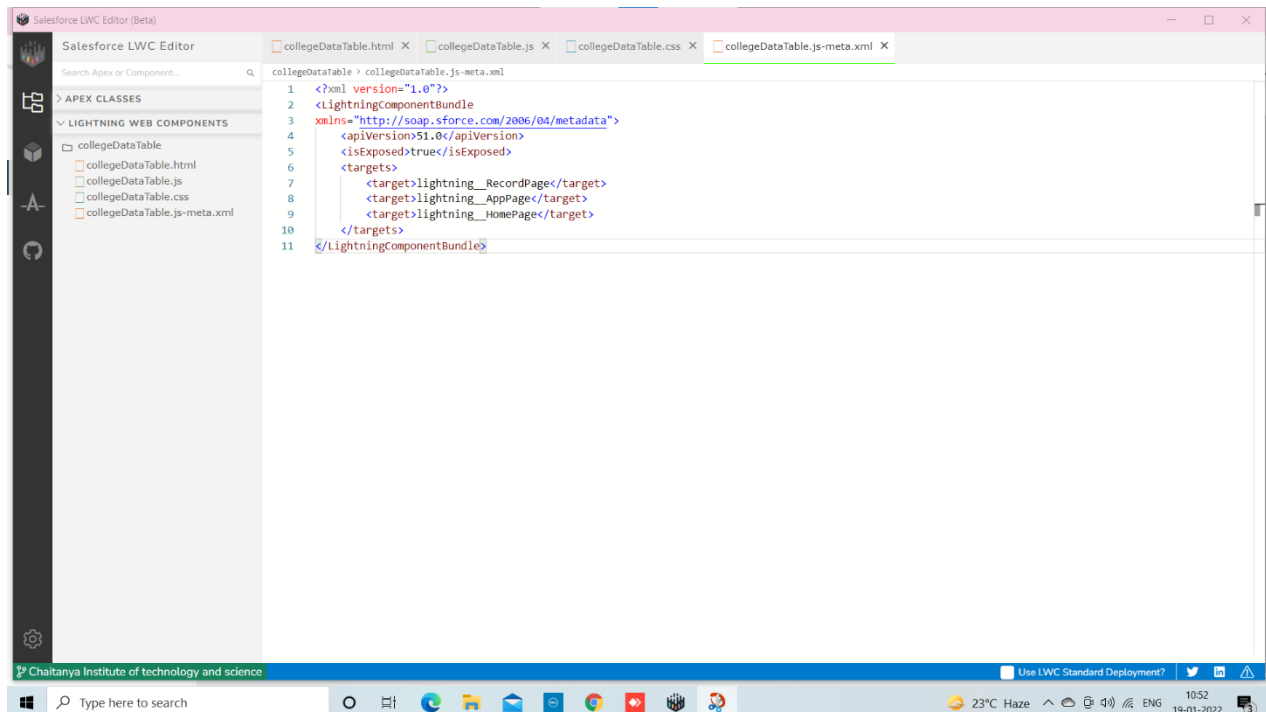
Creating college data table component(HTML File) :



Creating college data table component(Java Script File) :



Creating college data table component(Meta File) :



Data table in college object :

