

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

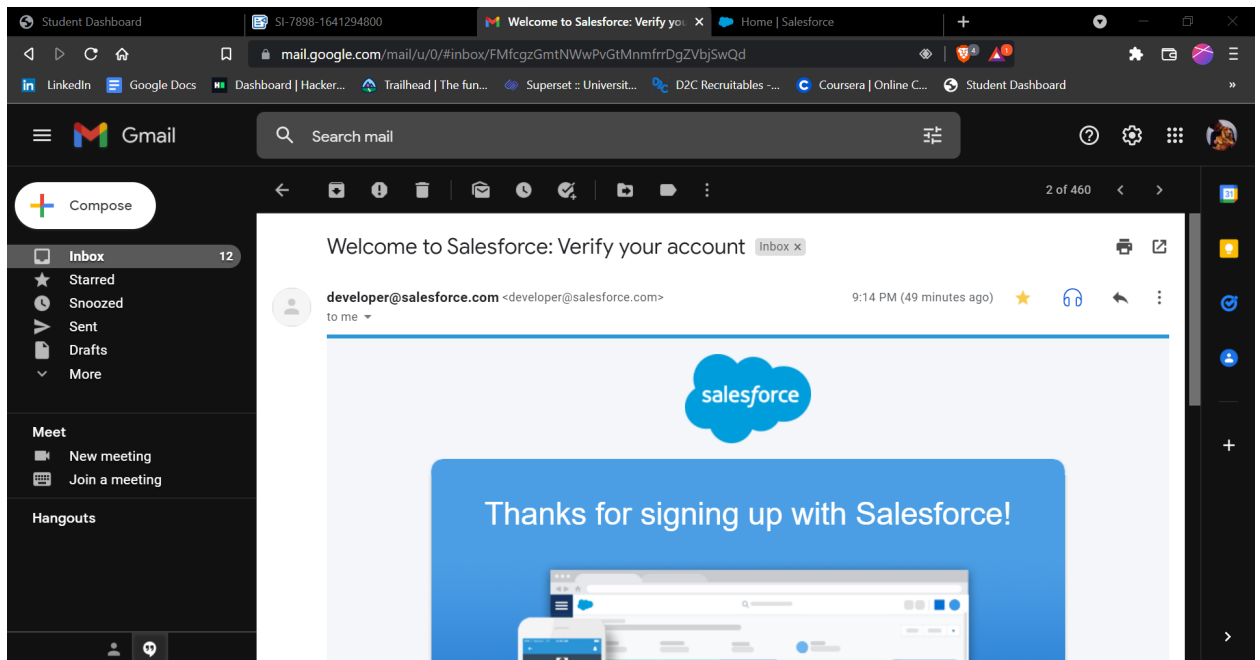
Description :

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 : Porandla & Last name : Abishek Datta
 2. Email : porandlaabishekdatta03@gmail.com
 3. Role : Developer
 4. Company : Chaitanya Institute of Technology and Science
 5. County : India
 6. Postal Code : 506001
 7. Username : abishek@chaitanya.com

Click on sign up after filling these.

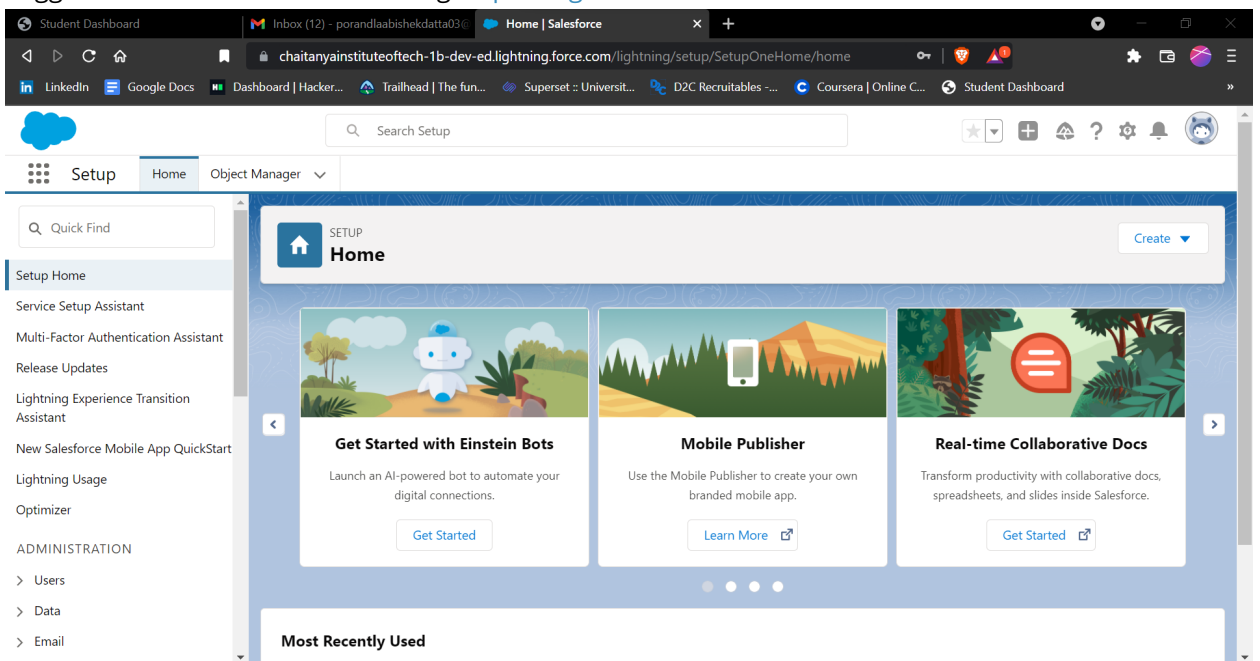
Account Activation :



- Verified mail account and activated the account.

Login to your Salesforce Customer Account :

- Logged into salesforce account using <https://login.salesforce.com/> 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 top screenshot displays the 'Fields & Relationships' page for a custom object named 'College'. It lists 10 fields: Capacity of Students, College Email, College Fee, College Name, Created By, Hostel Fee, Last Modified By, Owner, and Record Info. The bottom screenshot shows the 'New College' record creation form. The 'College Name' field is highlighted with a red border and a message 'Complete this field. View all dependencies'. Other fields like 'College Email', 'Capacity of Students', 'College Fee', and 'Hostel Fee' are also present. The 'Owner' is set to 'Porandla Abishek Datta'.

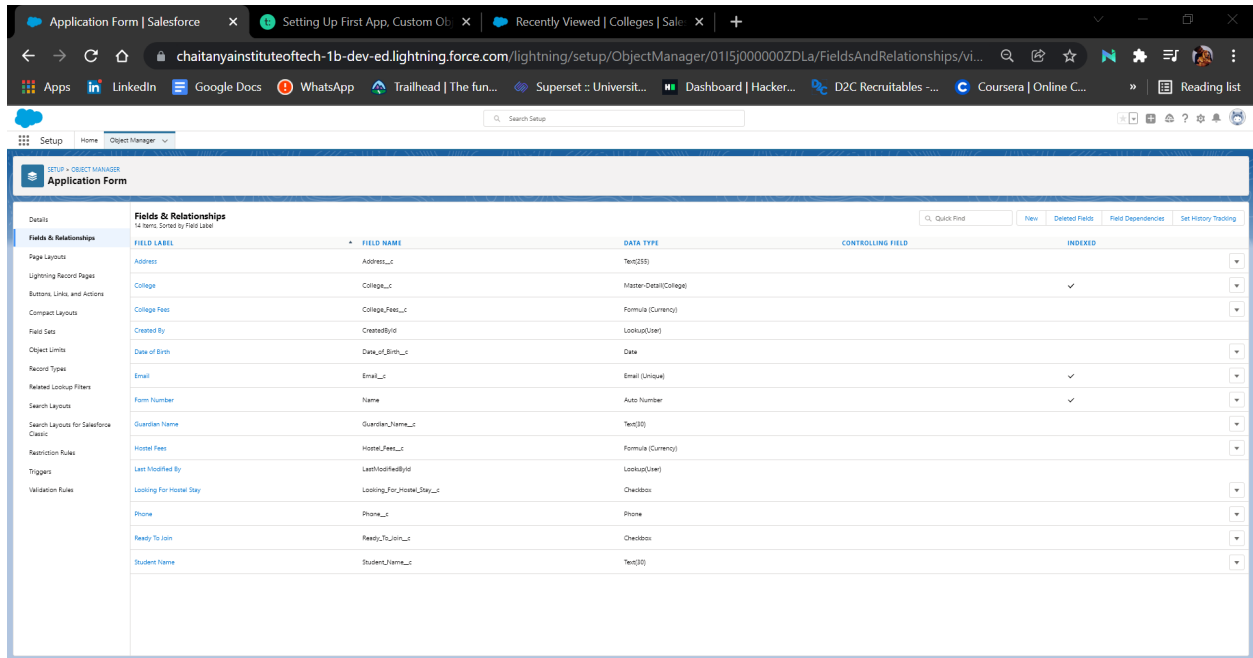
Day-3 :

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.

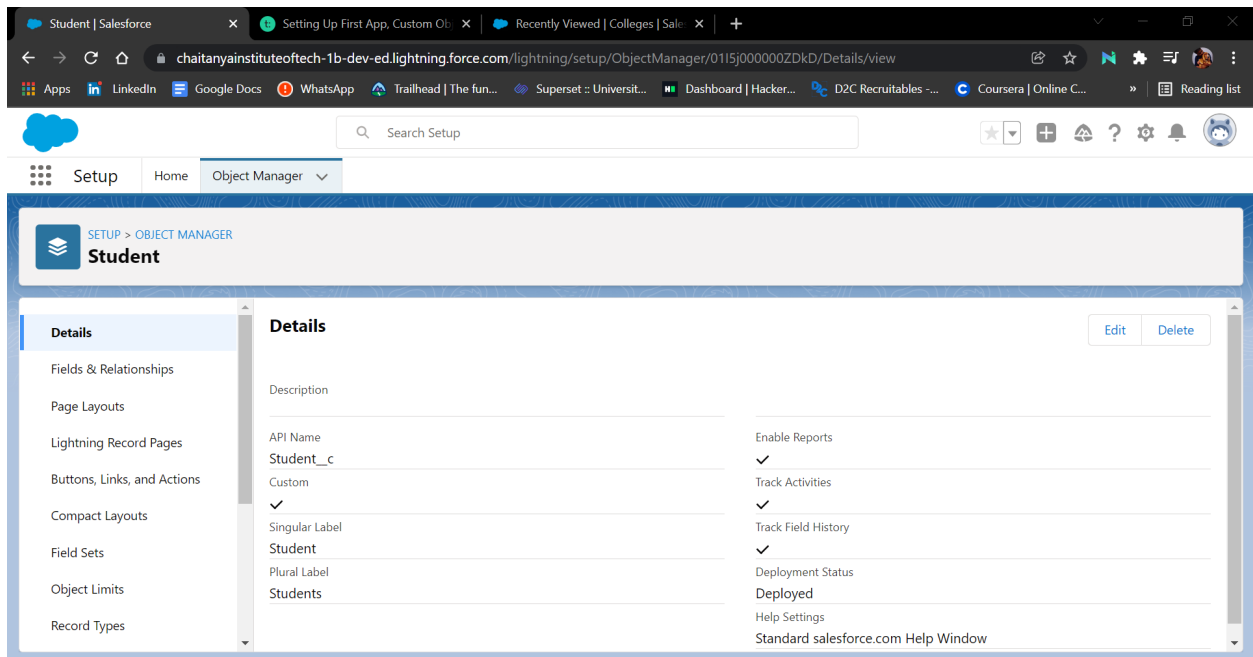


The screenshot shows the Salesforce Setup interface for the 'Application Form' custom object. The 'Fields & Relationships' tab is selected, displaying a list of 14 fields. The fields are sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Address (Text(255)), College (Master-Detail(College)), College Fee (Formula (Currency)), Created By (Lookup(User)), Date of Birth (Date), Email (Email (Unique)), Room Number (Auto Number), 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(30)).

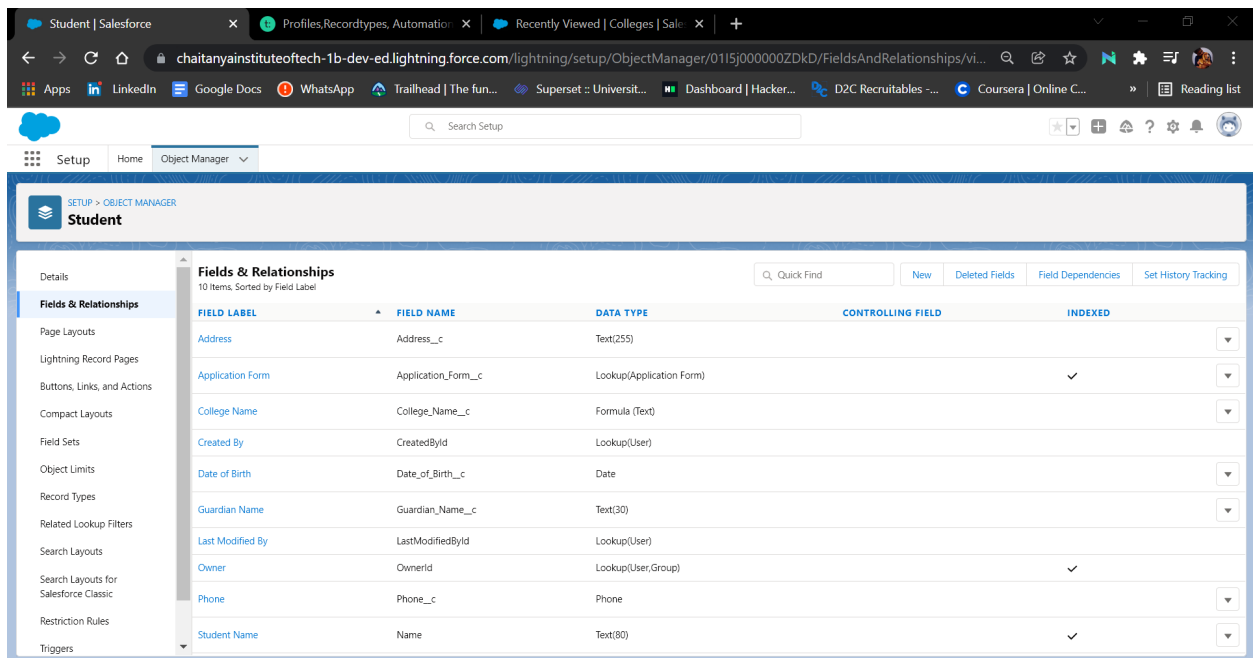
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
College	College__c	Master-Detail(College)		✓
College Fee	College_Fee__c	Formula (Currency)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Email	Email__c	Email (Unique)		✓
Room Number	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 :



Student Fields :



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

Subject Object :

The screenshot shows the Salesforce Setup page for the 'Subject' object. The browser address bar displays the URL: `chaitanyainstituteoftech-1b-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000ZDqQ/Details/view`. The page header includes the Salesforce logo, a search bar, and navigation tabs for Setup, Home, and Object Manager. The main content area is titled 'Subject' and features a left-hand 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 'Details' section is active, showing a form with the following fields:

- Description: (Empty text area)
- API Name: Subject_c
- Custom: ☒
- Singular Label: Subject
- Plural Label: Subjects
- Enable Reports: ☒
- Track Activities: ☒
- Track Field History: ☒
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

Buttons for 'Edit' and 'Delete' are located in the top right corner of the details section.

Subject Fields :

The screenshot shows the Salesforce Setup page for the 'Subject' object, specifically the 'Fields & Relationships' section. The browser address bar displays the URL: `chaitanyainstituteoftech-1b-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000ZDqQ/FieldsAndRelationships/view`. The page header includes the Salesforce logo, a search bar, and navigation tabs for Setup, Home, and Object Manager. The main content area is titled 'Subject' and features a left-hand 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 'Fields & Relationships' section is active, showing a table with 7 items, sorted by Field Label. The table has columns: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The table content is as follows:

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)		<input checked="" type="checkbox"/>
Paper 1	Paper_1_c	Picklist		<input type="checkbox"/>
Paper 2	Paper_2_c	Picklist		<input type="checkbox"/>
Student	Student_c	Lookup(Student)		<input checked="" type="checkbox"/>
Subject ID	Name	Auto Number		<input checked="" type="checkbox"/>

Buttons for 'New', 'Deleted Fields', 'Field Dependencies', and 'Set History Tracking' are located in the top right corner of the table section.

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 and a navigation menu with 'Data' and 'Objects and Fields' sections. The 'Data' section includes 'Picklist Settings', 'State and Country/Territory', and 'Picklists'. The 'Objects and Fields' section includes 'Picklist Value Sets'. The main content area is titled 'Picklist Value Sets' and includes a 'Help for this Page' link. Below the title, there is a description of global picklist value sets and a 'View' dropdown set to 'All'. A table titled 'Global Value Sets' lists three entries: 'College Name', 'Paper_1', and 'Paper_2'. Each entry has 'Edit' and 'Del' links. A 'New' button is located above the table. The table also shows 'Deleted Global Value Sets (0)'.

Setup
Picklist Value Sets

Help for this Page

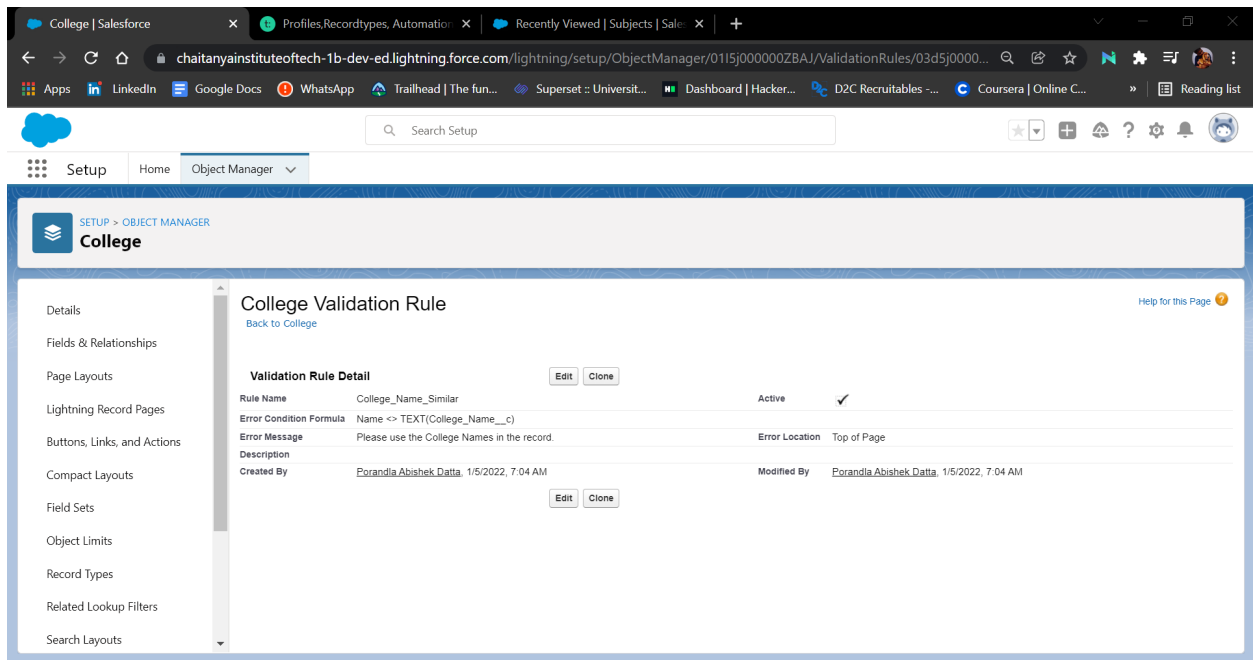
Global picklist value sets let you share the values across objects. Base custom picklist fields on a global value set to inherit its values. The value set is restricted so users can't add unapproved values through the API.

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	Paper_1	
Edit Del	Paper_2	
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

College | Salesforce

Profiles, Record Types, Automation | Recently Viewed | Subjects | Sales

chaitanyainstituteoftech-1b-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000ZBAJ/FieldsAndRelationships/vi...

Apps | LinkedIn | Google Docs | WhatsApp | Trailhead | The fun... | Superset :: Universit... | Dashboard | Hacker... | D2C Recruitables -... | Coursera | Online C... | Reading list

Search Setup

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

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	Porandla Abishek Datta , 1/4/2022, 11:56 AM
Edit Del	College Name	Capacity of Students	Porandla Abishek Datta , 1/4/2022, 11:59 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.

The screenshot displays the Salesforce Object Manager interface for a validation rule. The browser address bar shows the URL: `chaitanyainstituteoftech-1b-dev-ed.lightning.force.com/lightning/setup/ObjectManager/page?address=%2F03d5j000000cBjf`. The page title is "Application Form Validation Rule".

Validation Rule Detail

Rule Name	No_Modification	Active	✓
Error Condition Formula	<code>AND(Ready_To_Join__c == true, OR(ISCHANGED(Address__c), ISCHANGED(College__c), ISCHANGED(Date_of_Birth__c), ISCHANGED(Email__c), ISCHANGED(Guardian_Name__c), ISCHANGED(Phone__c))))</code>		
Error Message	No Modifications are allowed.	Error Location	Top of Page
Description			
Created By	Porandia Abishek Datta, 1/8/2022, 11:30 PM	Modified By	Porandia Abishek Datta, 1/8/2022, 11:30 PM

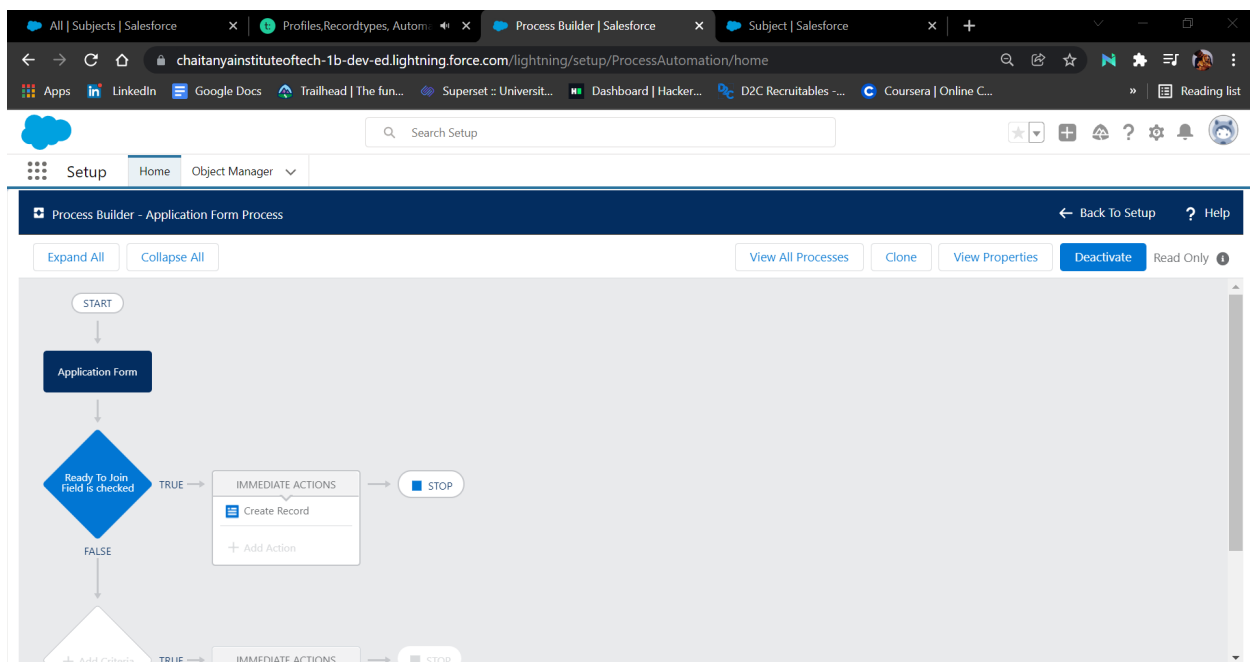
Day-5 :

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.

PROCESS	DESCRIPTION	OBJECT	PROCESS TYPE	LAST MODIFIED	STATUS	ACTIONS
> Application Form Process		Application Form	Record Change	1/9/2022	Active	

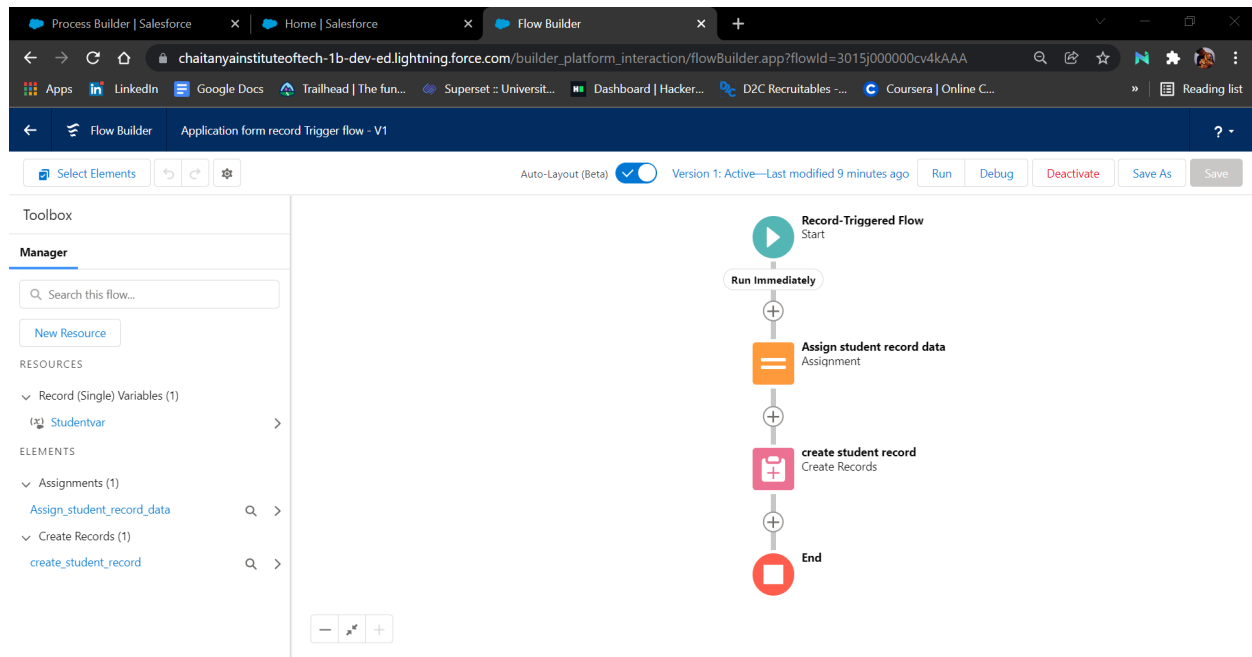


Day-6 :

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**
- **appicationschedule**

Apex Classes | Salesforce

chaitanyainstituteoftech-1b-dev-ed.lightning.force.com/lightning/setup/ApexClasses/home

Search Setup

Setup Home Object Manager

apex c

Custom Code

Apex Classes

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

Apex Classes

Help for this Page

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: 0.02%
You are currently using 1,344 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

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	Name	Namespace Prefix	Api Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit Del Security	ApplicationBatchTest		53.0	Active	1,126	Porandla Abishek Datta, 1/11/2022, 12:21 AM	<input type="checkbox"/>
Edit Del Security	applicationschedule		53.0	Active	218	Porandla Abishek Datta, 1/11/2022, 12:43 AM	<input type="checkbox"/>

Apex Jobs | Salesforce

chaitanyainstituteoftech-1b-dev-ed.lightning.force.com/lightning/setup/AsyncApexJobs/home

Search Setup

Setup Home Object Manager

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.

Apex Jobs

Click here to go to the new batch jobs page

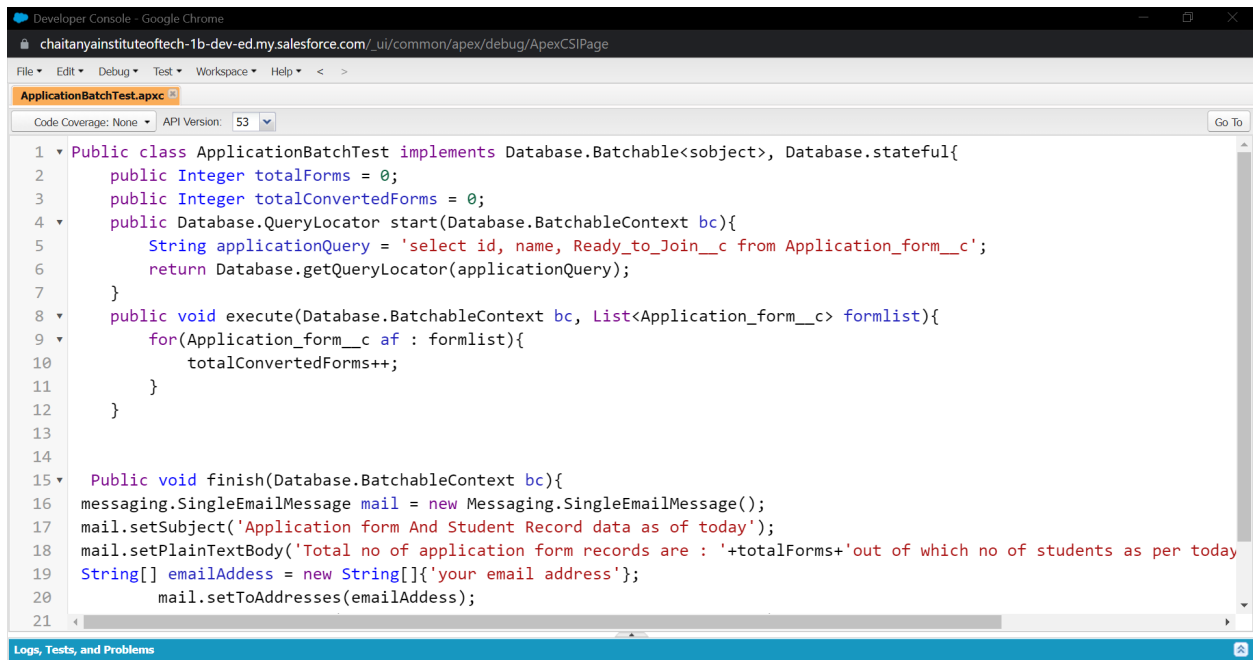
Help for this Page

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

View: All Create New View

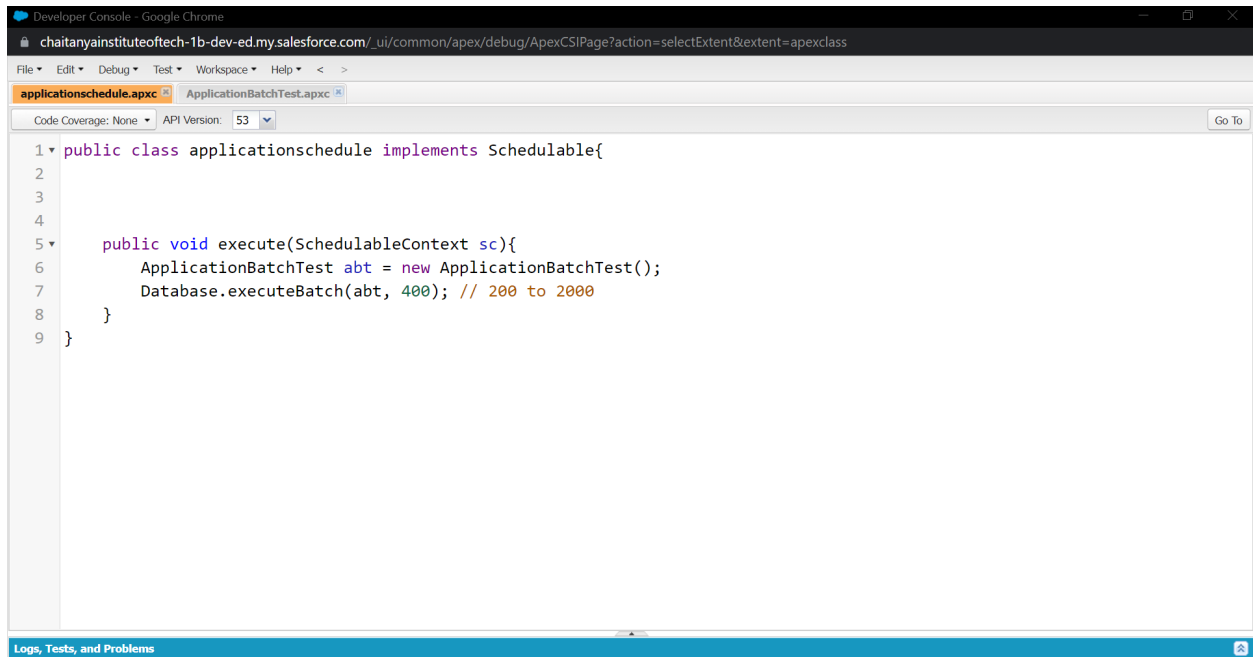
Action	Submitted Date	Job Type	Status	Status Detail	Total Batches	Batches Processed	Failures	Submitted By	Completion Date	Apex Class	Apex Method	Apex Job ID
	1/11/2022, 12:44 AM	Scheduled Apex	Queued		0	0	0	Abishek Datta, Porandla		applicationschedule		7075j00000bs7aE

Developer console codes :



The screenshot shows the Salesforce Developer Console with the file `ApplicationBatchTest.apxc` open. The code defines a class `ApplicationBatchTest` that implements `Database.Batchable<object>` and `Database.Stateful`. It includes methods for `start`, `execute`, and `finish`. The `execute` method iterates through a list of `Application_form__c` records and increments a counter. The `finish` method sends an email summary.

```
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     }
```



The screenshot shows the Salesforce Developer Console with the file `applicationschedule.apxc` open. The code defines a class `applicationschedule` that implements `Schedulable`. It includes an `execute` method that creates an instance of `ApplicationBatchTest` and calls `Database.executeBatch` with a batch size of 400.

```
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 | Salesforce

chaitanyainstituteoftech-1b-dev-ed.lightning.force.com/lightning/setup/ScheduledJobs/home

Search Setup

Setup Home Object Manager

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.

SETUP 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	Abhishek Datta_Porandia	1/11/2022, 12:44 AM		1/14/2022, 11:00 PM	Scheduled Apex
Del	Metalytics Data Loader Job for Org - 00D5000005HcmH	User Integration	1/4/2022, 7:14 AM	1/10/2022, 7:10 PM	1/11/2022, 7:10 PM	Autonomous Data Loader Job

Day-8:

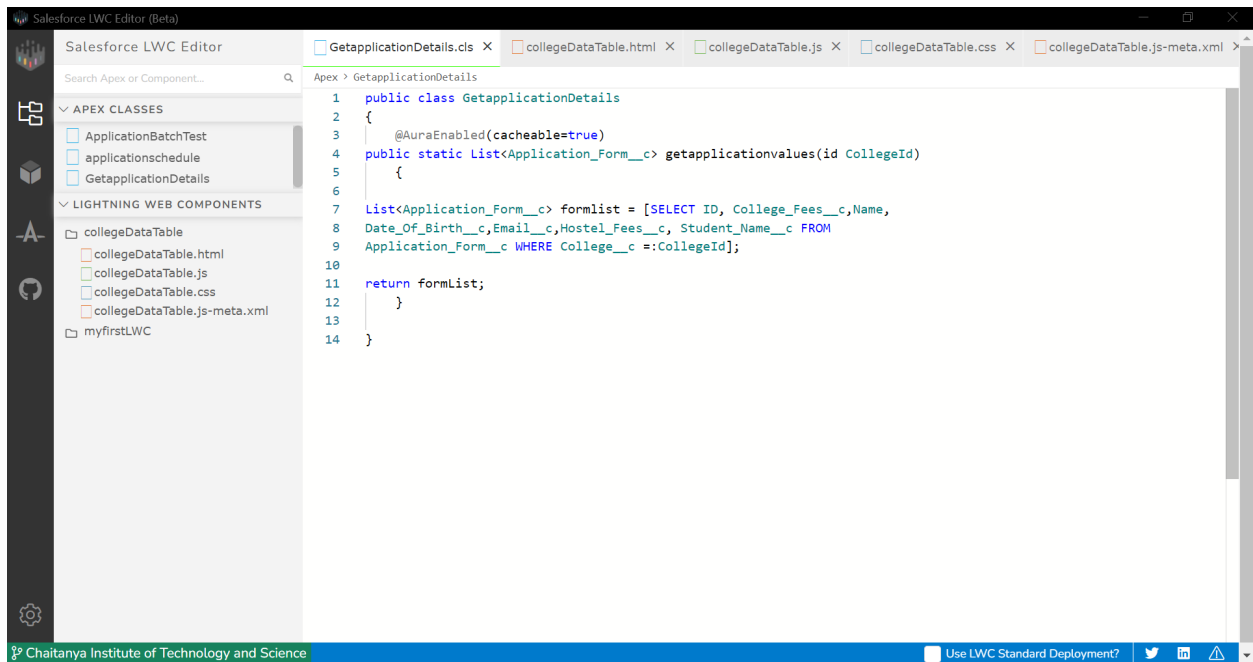
Topic : Lightning Web Components

Milestone/Activity :

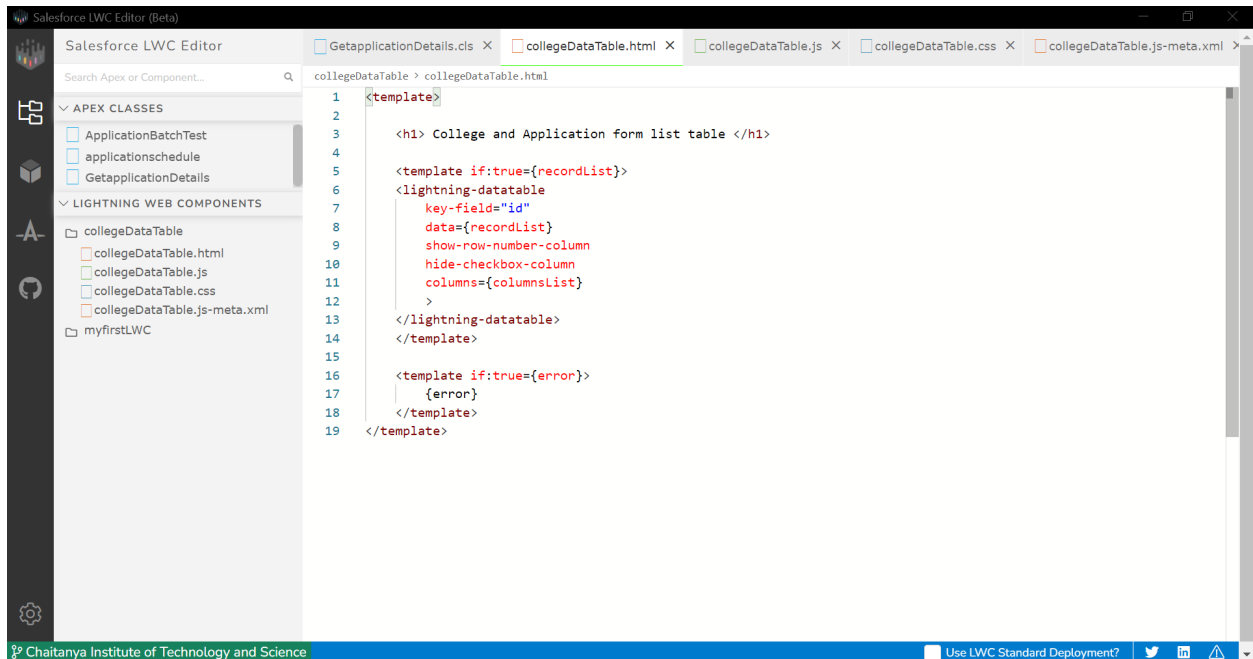
- Creating college data table component(Apex class)
- creating college data table component(HTML File)
- creating college data table component(Java Script)
- creating college data table component(Meta File)

Description :

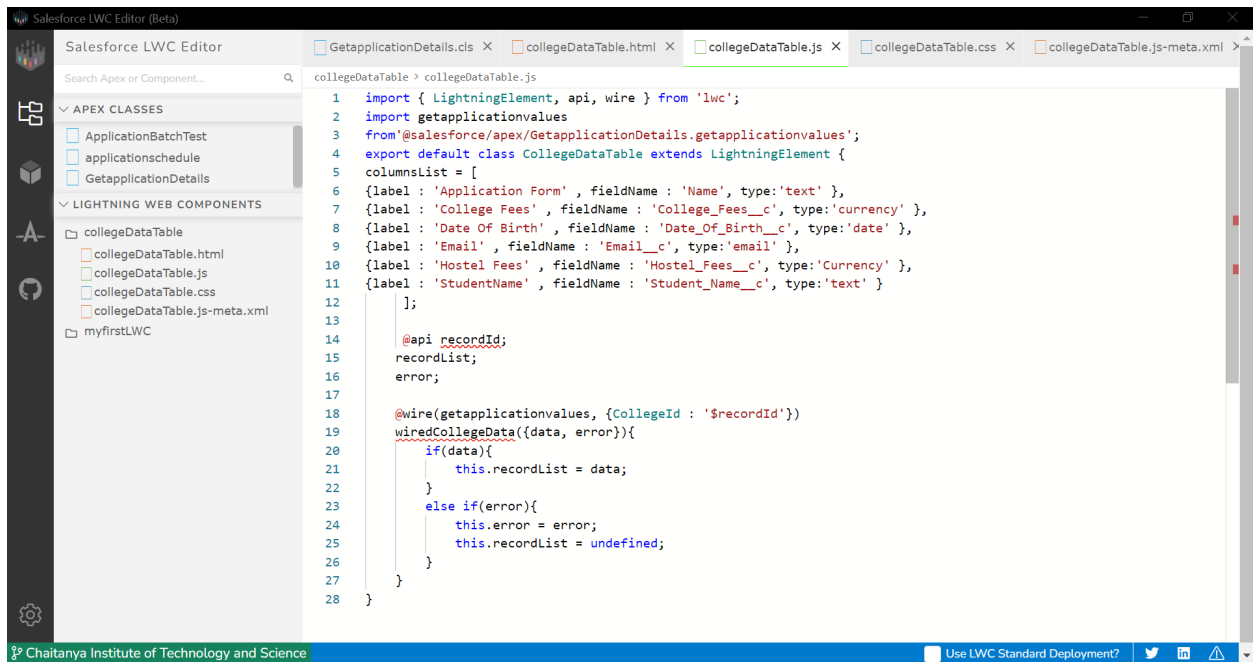
Creating college data table component(Apex class):



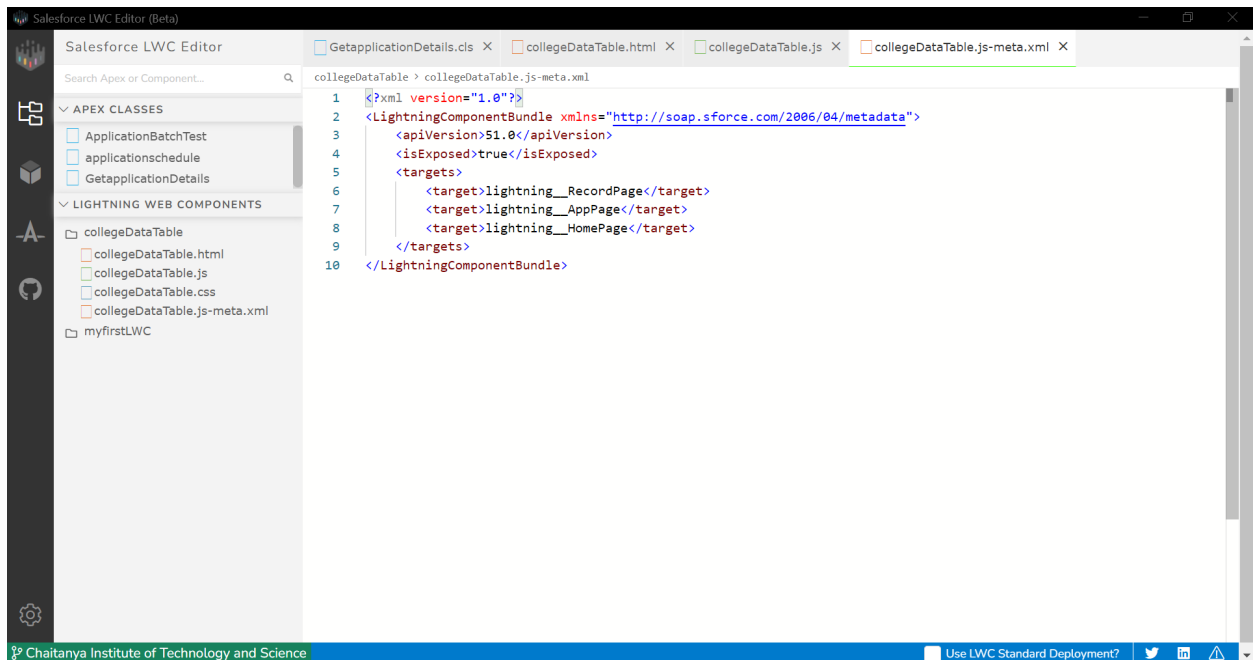
Creating college data table component(HTML File) :



Creating college data table component(Java Script File) :



Creating college data table component(Meta File) :



Data table in college object :

Apex Classes | SalesforceMIT-HYD | SalesforceCollege Record Page - Lightning

chaitanyainstituteoftech-1b-dev-ed.lightning.force.com/lightning/r/College__c/a005j000006nhATAAY/view

AppsLinkedInGoogle DocsTrailhead | The fun...Superset : Universit...Dashboard | Hacker...D2C Recruitables ...Coursera | Online C...Reading list

MIT-HYD

College ManagementCollegesApplication FormsStudentsSubjectsAccountsContacts

CollegeMIT-HYD

New ContactEditNew Opportunity

RelatedDetailsData Table

College and Application form list table

	Application Form	College Fees	Date Of Birth	Email	Hostel Fees	StudentName
1	F-000002	\$50,000.00		someguy@gmail.com	23000	someguy

Activity

New EventNew TaskLog a CallEmail

Set up an event...Add

Filters: All time • All activities • All types

RefreshExpand AllView 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.