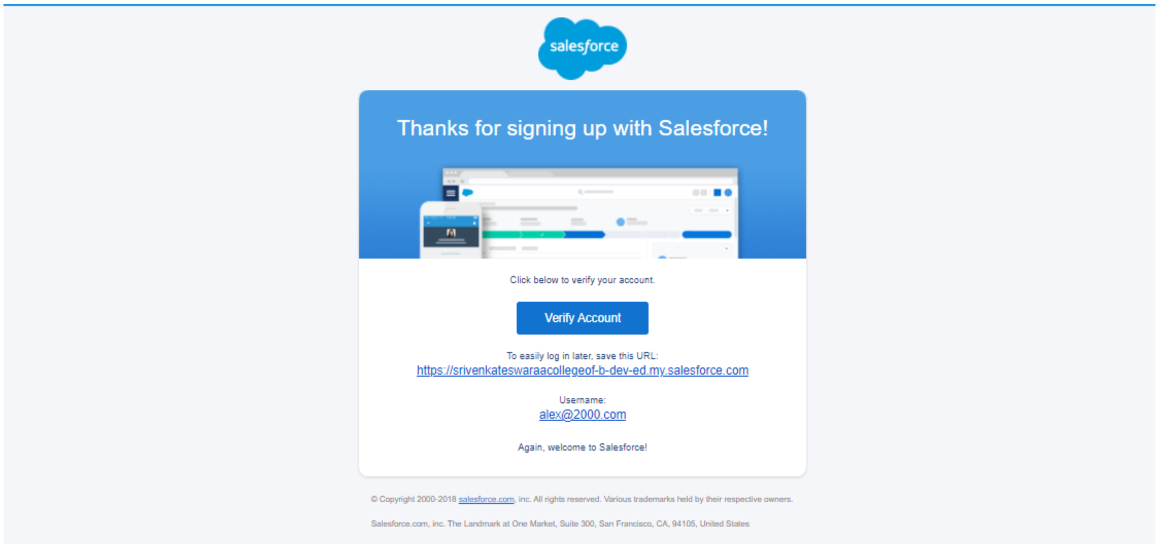
College Management Application

Day 1	: Create Your Sales force Developer Get Started
Date	: 02/01/2022
Milestone Activities	: Created, activated, logged in.
Description	: Successfully created the account.

Account Activation



Thanks for signing up with Salesforce!

Click below to verify your account.

To easily log in later, save this URL:
https://srivenkateswaraacollegeof-b-dev-ed.my.salesforce.com

Username:
alex@2000.com

Again, welcome to Salesforce!

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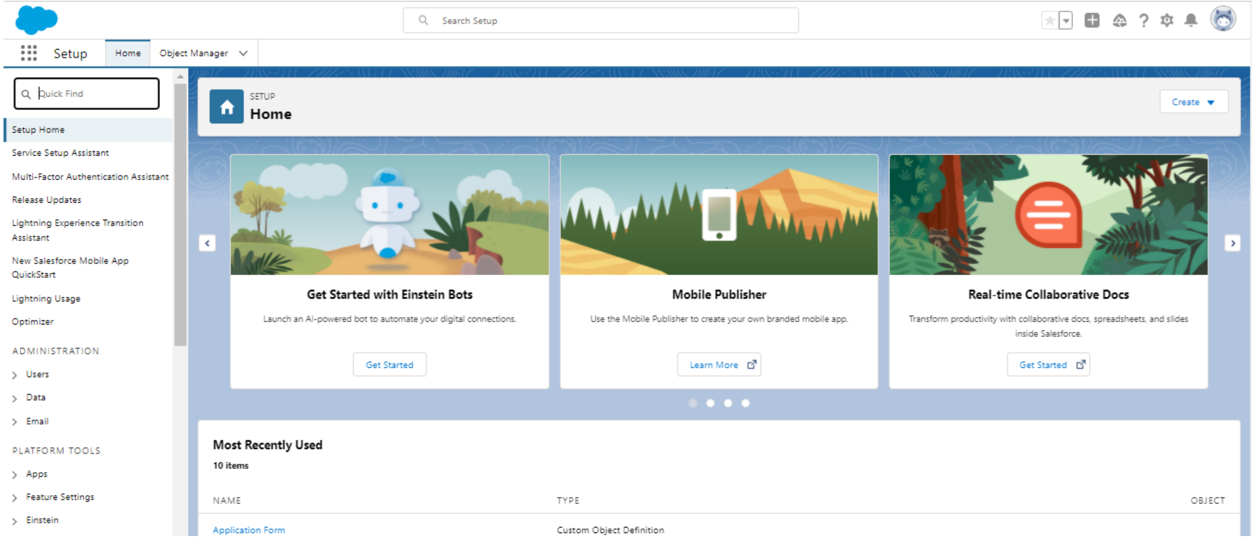
Salesforce.com, inc. The Landmark at One Market, Suite 300, San Francisco, CA, 94105, United States

Sales Force Login



Get Started with Einstein Bots

Launch an AI-powered bot to automate your digital connections.

Mobile Publisher

Use the Mobile Publisher to create your own branded mobile app.

Real-time Collaborative Docs

Transform productivity with collaborative docs, spreadsheets, and slides inside Salesforce.

Most Recently Used

10 items

NAME	TYPE	OBJECT
Application Form	Custom Object Definition	

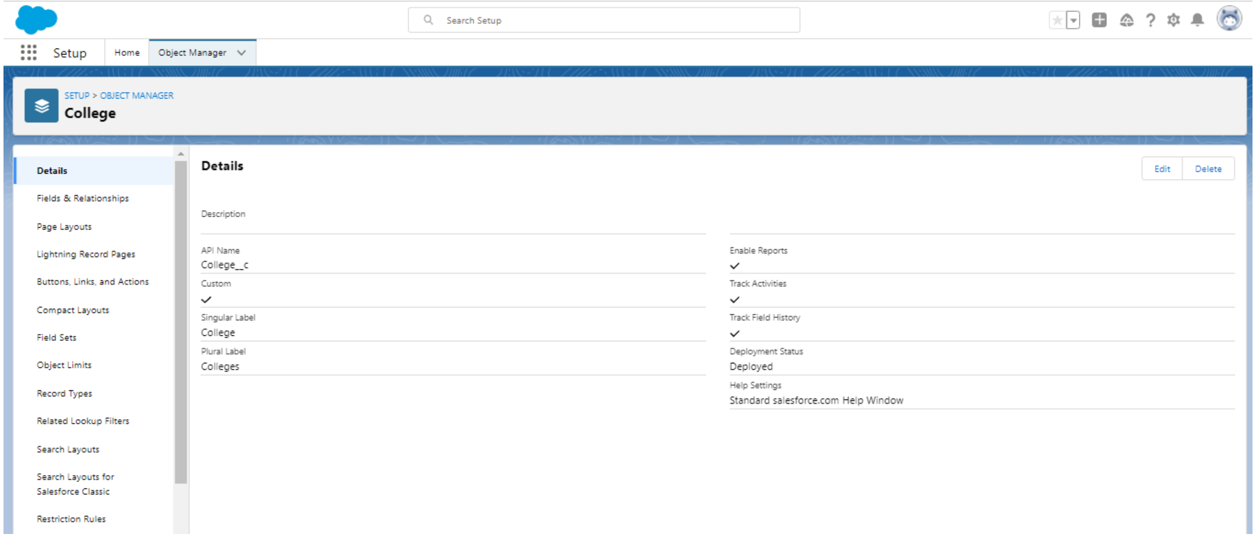
Day 2: Custom Object Creation

Date: 04/01/2022

Milestone Activities : Created the custom objects and the fields for separated objects.

Description : Successfully created the custom objects with respected fields and relationships.

Create Fields On College Object



College

Details

Description

API Name
College__c

Custom
✓

Singular Label
College

Plural Label
Colleges

Enable Reports
✓

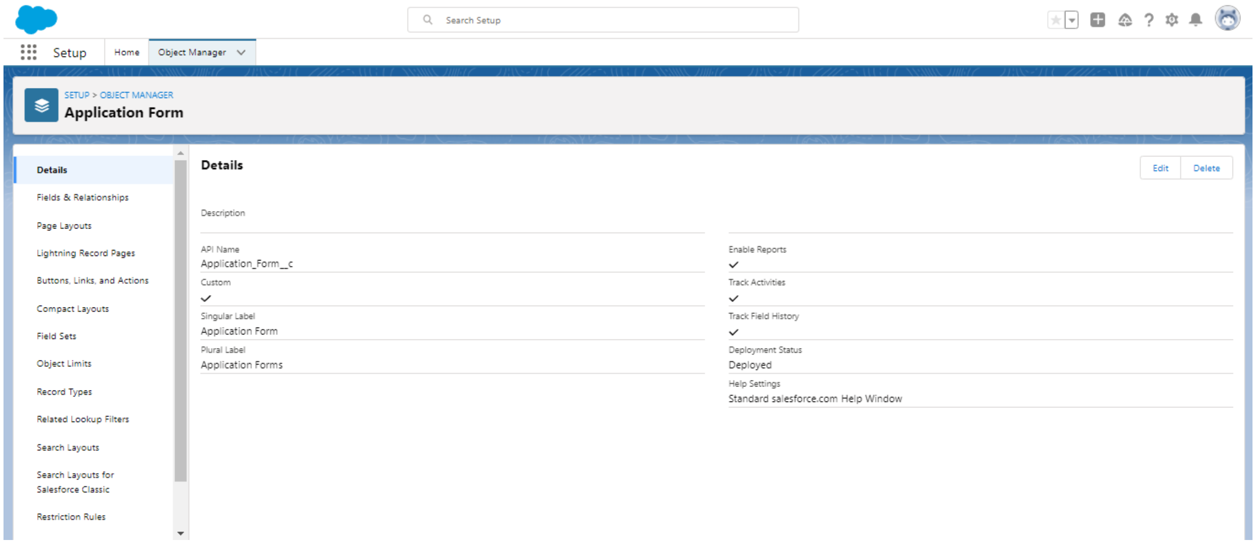
Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Create Fields On Application Form Object



Application Form

Details

Description

API Name
Application_Form__c

Custom
✓

Singular Label
Application Form

Plural Label
Application Forms

Enable Reports
✓

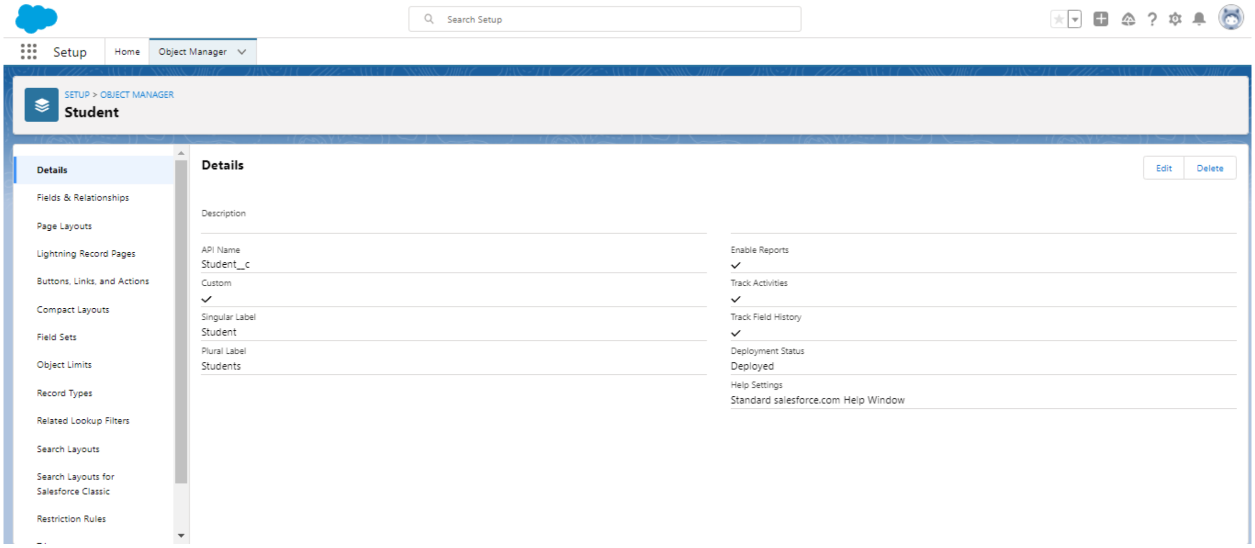
Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Create Fields On Student Object



Details

Description

API Name
Student__c

Custom
✓

Singular Label
Student

Plural Label
Students

Enable Reports
✓

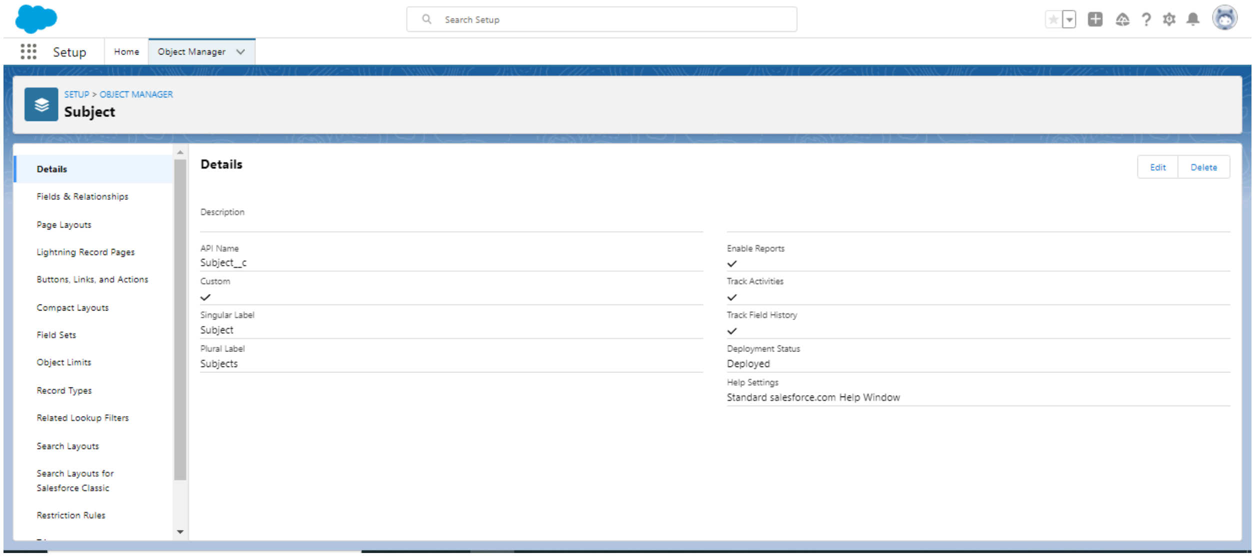
Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Create Fields On Subject Object



Details

Description

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

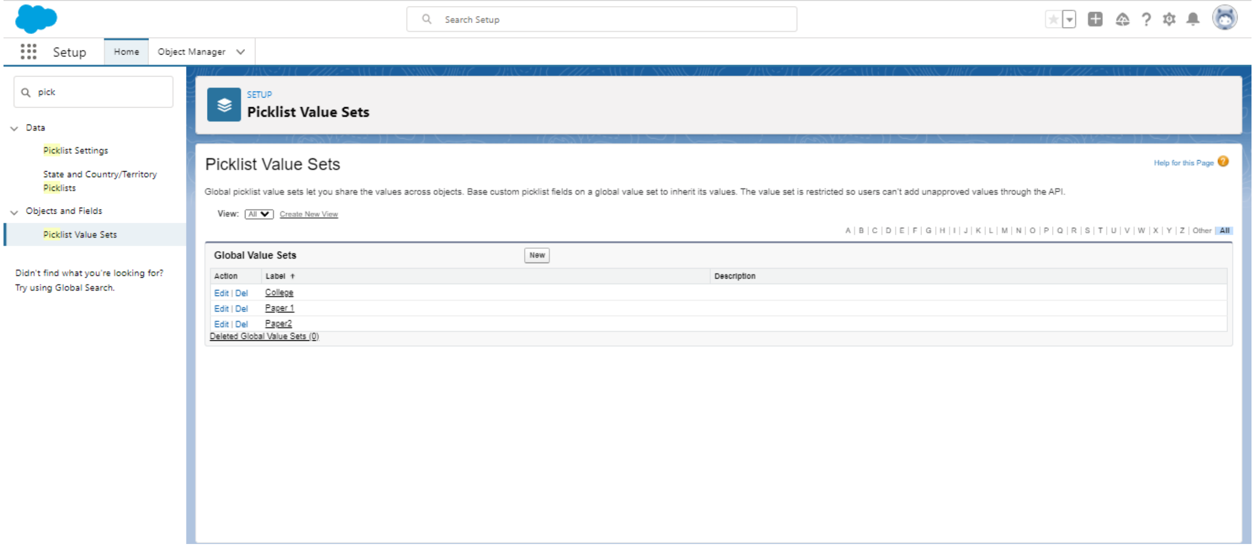
Day 3 : Adding Business Logic To Application
Date: 05/01/2022

Milestone Activities : Create global picklist value,field dependencies and validation rule.,Process Automation

Description : Successfully created global picklist values, field dependencies and validation rule,Process Automation.

Adding Business Logic To Application

Creating Global Picklist Value Sets


Search Setup
Setup
Home
Object Manager
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.
SETUP
Picklist Value Sets
Help for this Page
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
New
Deleted Global Value Sets (0)

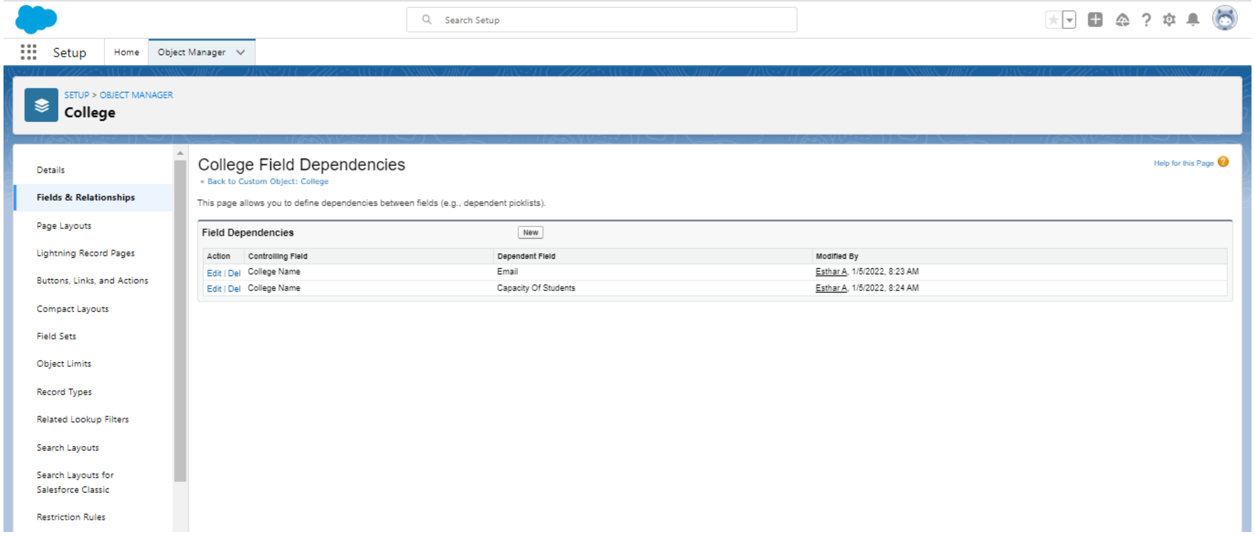
Picklist Value Sets

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.

Global Value Sets

Action	Label ↑	Description
Edit | Del	College	
Edit | Del	Paper 1	
Edit | Del	Paper2	

Creating Field Dependencies



College Field Dependencies

« Back to Custom Object: College

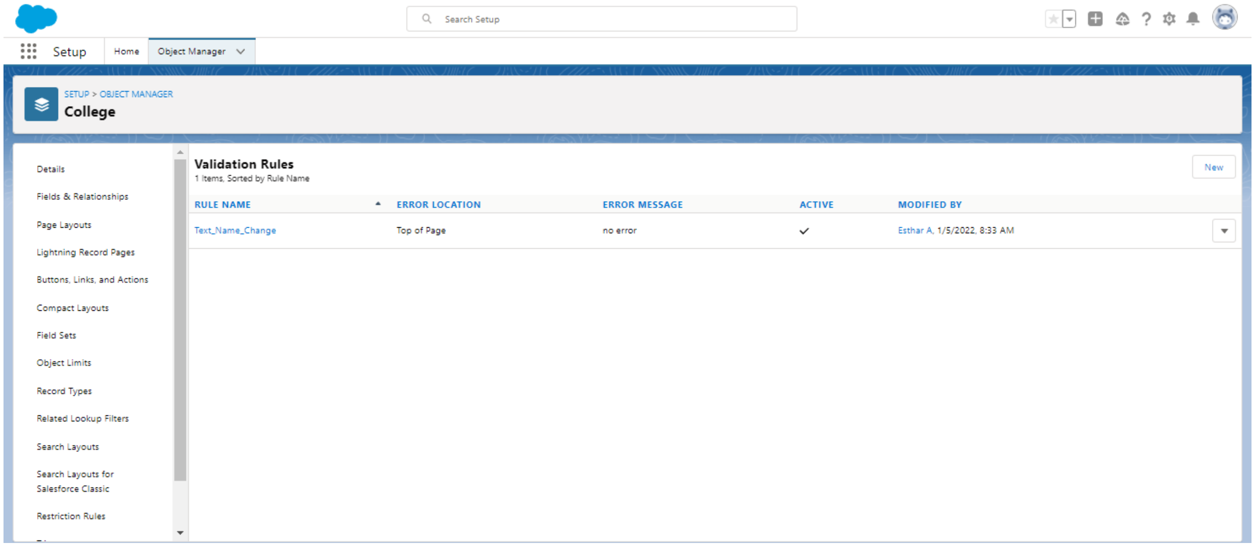
This page allows you to define dependencies between fields (e.g., dependent picklists).

Field Dependencies

Action	Controlling Field	Dependent Field	Modified By
Edit | Del	College Name	Email	Esthar A, 1/5/2022, 8:23 AM
Edit | Del	College Name	Capacity Of Students	Esthar A, 1/5/2022, 8:24 AM

Creating Validation Rules

1. Create a validation rule on the college object such that the college name and record info should have the same name.

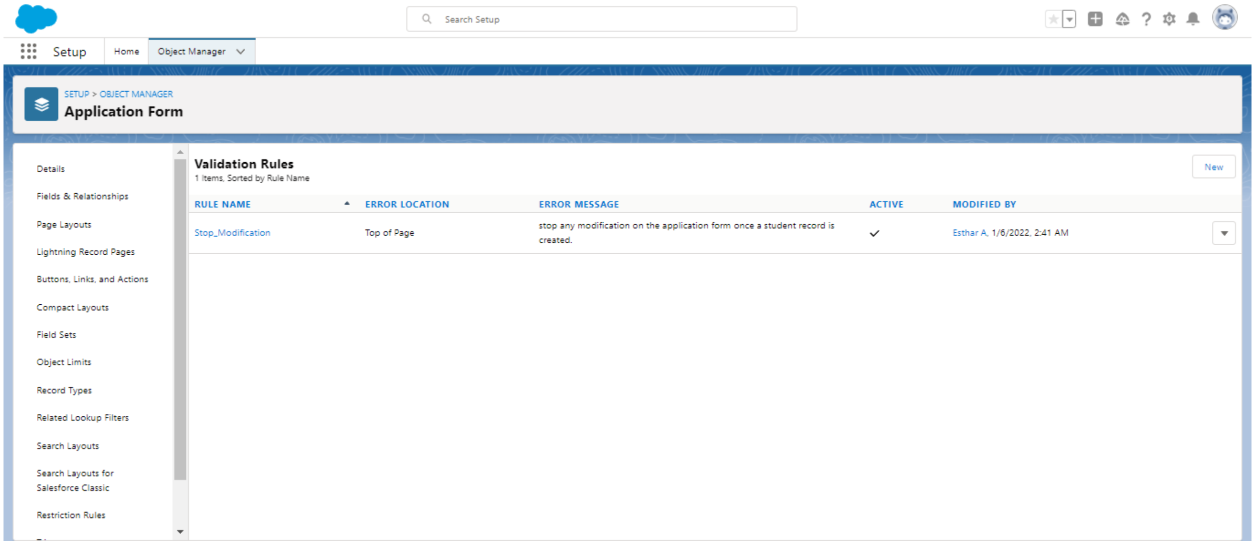


Validation Rules

1 Items, Sorted by Rule Name

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
Text_Name_Change	Top of Page	no error	✓	Esthar A, 1/5/2022, 8:33 AM

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



SETUP > OBJECT MANAGER

Application Form

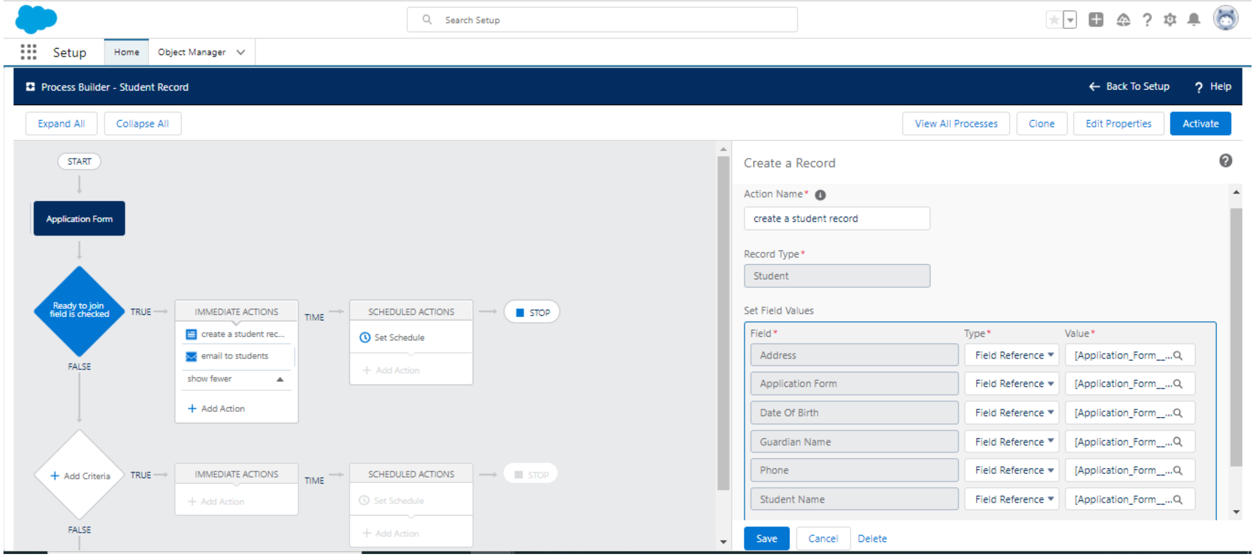
Validation Rules

1 Items, Sorted by Rule Name

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
Stop_Modification	Top of Page	stop any modification on the application form once a student record is created.	✓	Esthar A, 1/6/2022, 2:41 AM

Process Automation

3.Create an automation process such that when the "ready to join" field is checked on the application form object we need to create the student record automatically with the information specified in the application form record is created.



Process Builder - Student Record

Create a Record

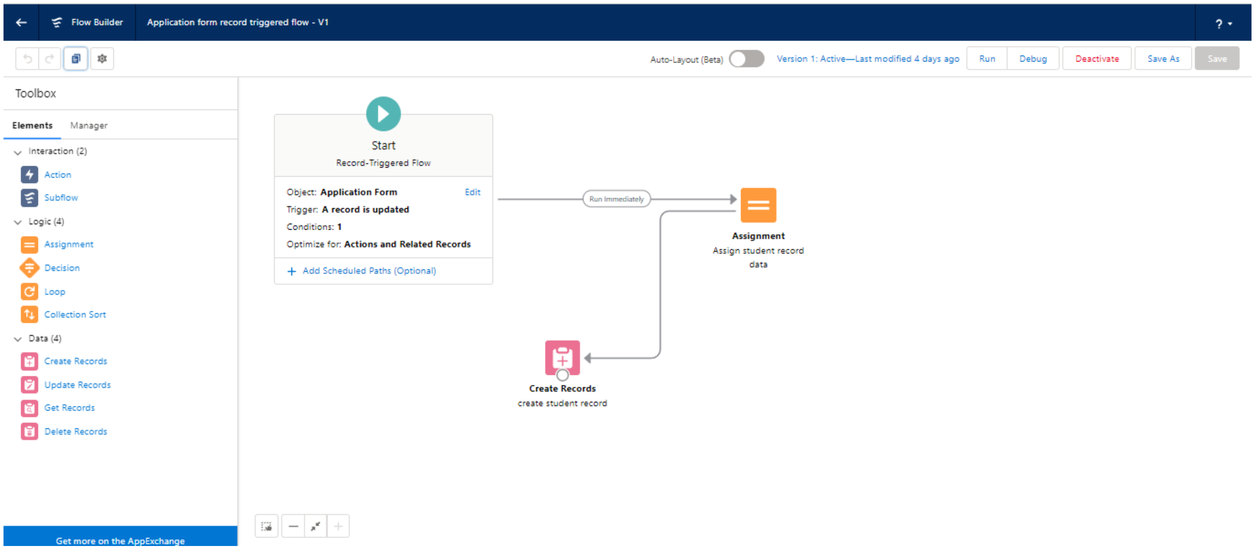
Action Name*: create a student record

Record Type*: Student

Set Field Values

Field*	Type*	Value*
Address	Field Reference	[Application_Form__...
Application Form	Field Reference	[Application_Form__...
Date Of Birth	Field Reference	[Application_Form__...
Guardian Name	Field Reference	[Application_Form__...
Phone	Field Reference	[Application_Form__...
Student Name	Field Reference	[Application_Form__...

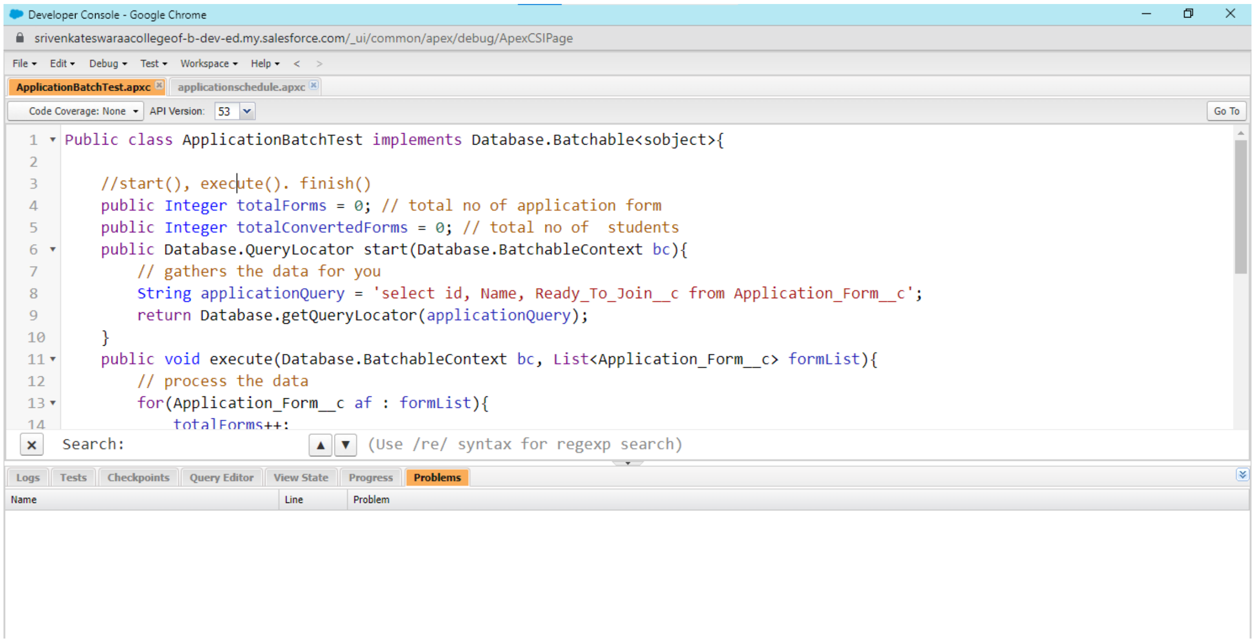
Create The Student Record Using Flow



Object: Application Form
Trigger: A record is updated
Conditions: 1
Optimize for: Actions and Related Records

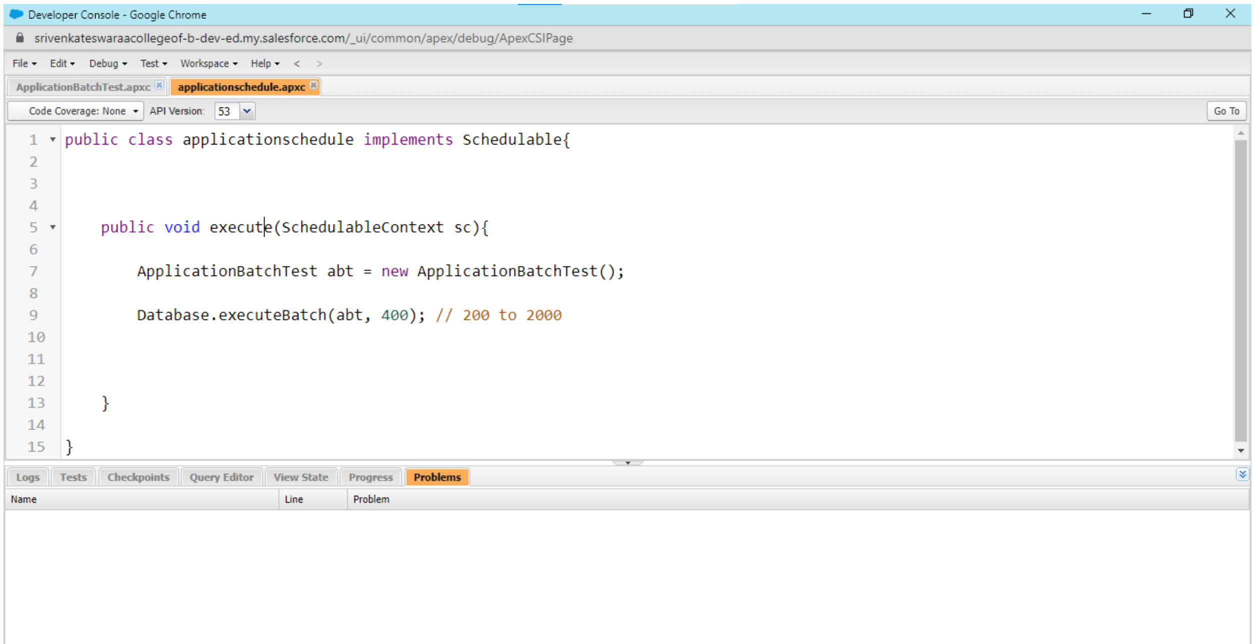
Batch Apex

Create A Batch apex For Application Form

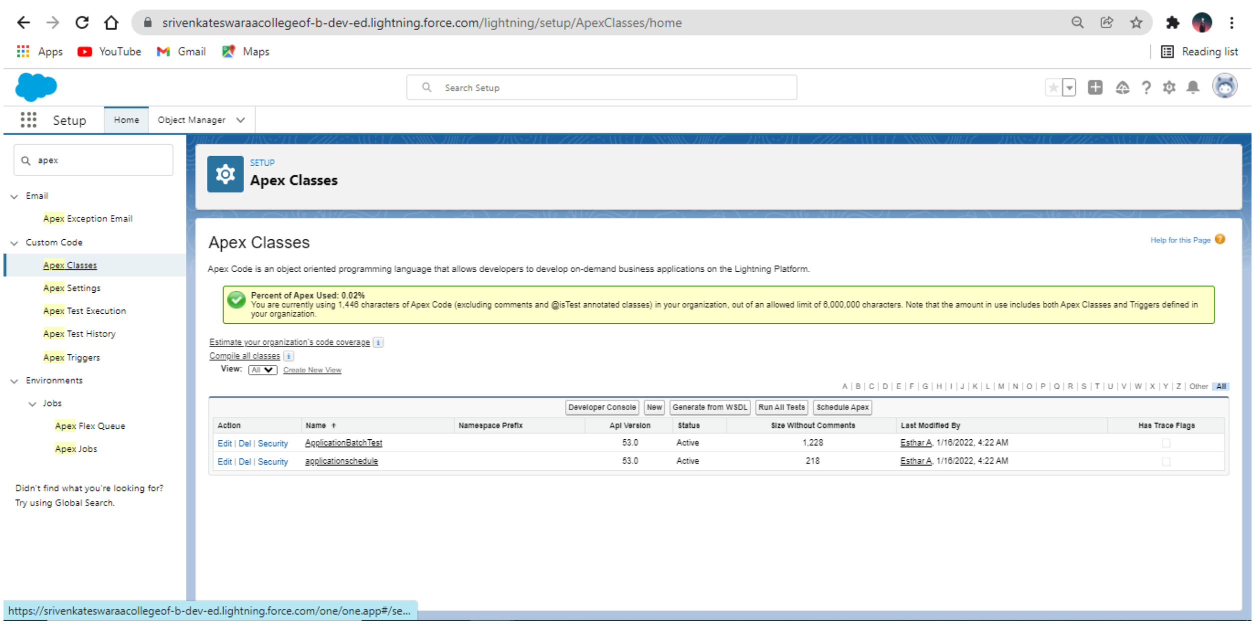

Developer Console - Google Chrome
srivenkateswaraacollegeof-b-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
File
Edit
Debug
Test
Workspace
Help
ApplicationBatchTest.apxc
applicationschedule.apxc
Code Coverage: None
API Version:
53
Go To
Search:
(Use /re/ syntax for regexp search)
Logs
Tests
Checkpoints
Query Editor
View State
Progress
Problems
Name
Line
Problem

```
Public class ApplicationBatchTest implements Database.Batchable<sobject>{

    //start(), execute(). finish()
    public Integer totalForms = 0; // total no of application form
    public Integer totalConvertedForms = 0; // total no of  students
    public Database.QueryLocator start(Database.BatchableContext bc){
        // gathers the data for you
        String applicationQuery = 'select id, Name, Ready_To_Join__c from Application_Form__c';
        return Database.getQueryLocator(applicationQuery);
    }
    public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
        // process the data
        for(Application_Form__c af : formList){
            totalForms++;
```

Create A Scheduler CLASS


Developer Console - Google Chrome
srivenkateswaraacollegeof-b-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
Go To
Logs
Tests
Checkpoints
Query Editor
View State
Progress
Problems
Name
Line
Problem

```
public class applicationschedule implements Schedulable{



    public void execute(SchedulableContext sc){

        ApplicationBatchTest abt = new ApplicationBatchTest();

        Database.executeBatch(abt, 400); // 200 to 2000



    }

}
```



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: 0.02%
You are currently using 1,446 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

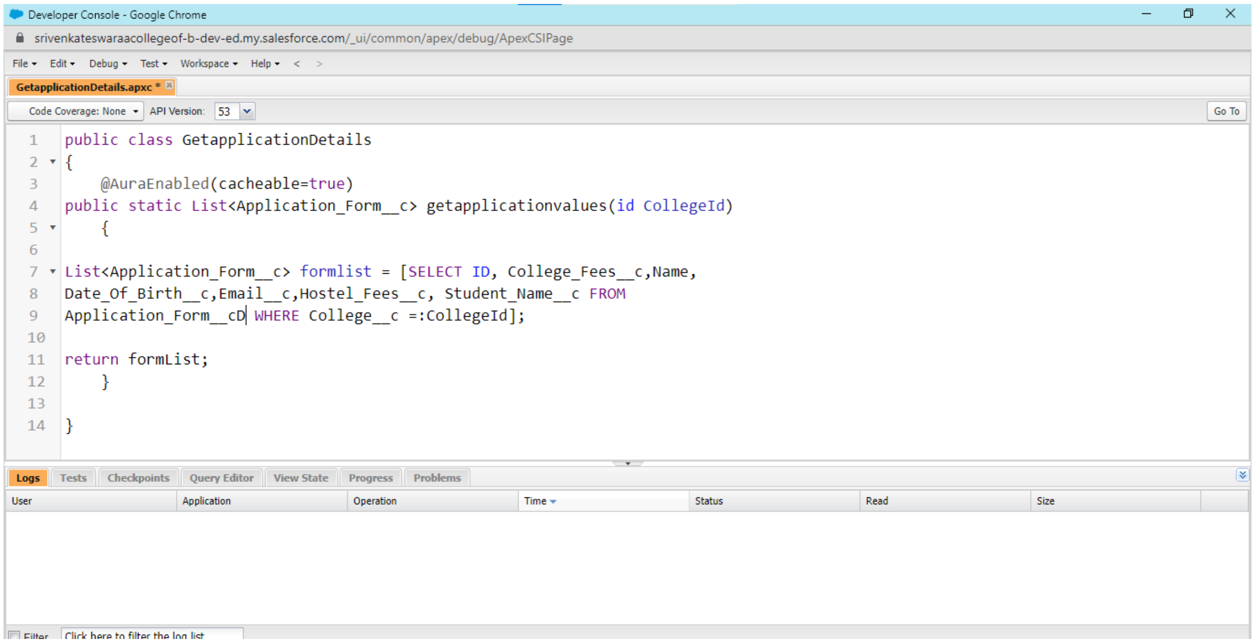
A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Other | All

Developer Console | New | Generate from WSDL | Run All Tests | Schedule Apex

Action	Name ↑	Namespace Prefix	Api Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit | Del | Security	ApplicationBatchTest		53.0	Active	1,228	Esthar A, 1/16/2022, 4:22 AM	□
Edit | Del | Security	applicationschedule		53.0	Active	218	Esthar A, 1/16/2022, 4:22 AM	□

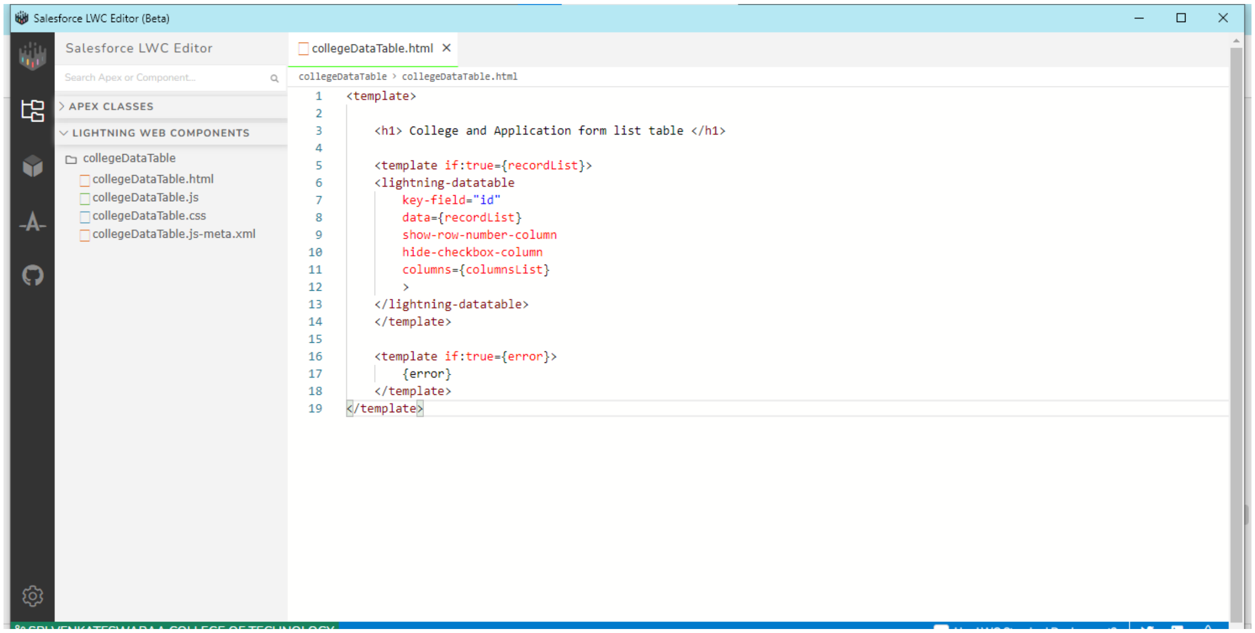
Lightning Web Components

Create College DataTable Component(APEX CLASS)


Developer Console - Google Chrome
srivenkateswaraacollegeof-b-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
File
Edit
Debug
Test
Workspace
Help
GetapplicationDetails.apxc *
Code Coverage: None
API Version: 53
Go To
Logs
Tests
Checkpoints
Query Editor
View State
Progress
Problems
User
Application
Operation
Time
Status
Read
Size
Filter
Click here to filter the log list

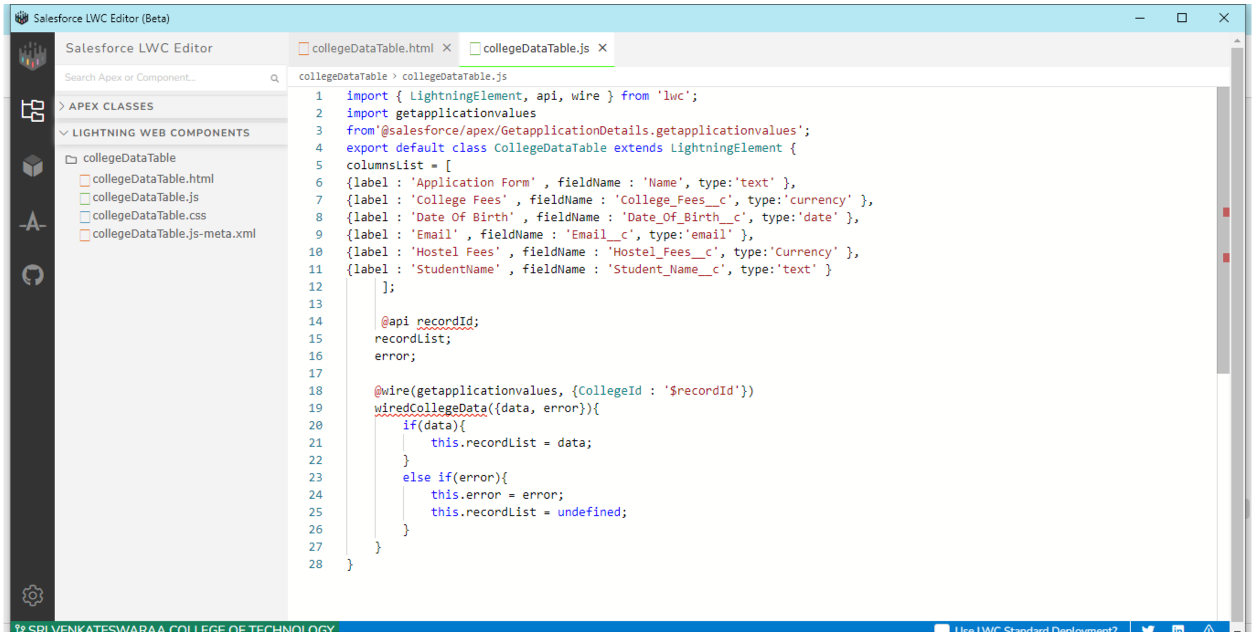
```
public class GetapplicationDetails
{
    @AuraEnabled(cacheable=true)
public static List<Application_Form__c> getapplicationvalues(id CollegeId)
    {

List<Application_Form__c> formlist = [SELECT ID, College_Fees__c,Name,
Date_Of_Birth__c,Email__c,Hostel_Fees__c, Student_Name__c FROM
Application_Form__cD WHERE College__c =:CollegeId];

return formList;
    }

}
```

Create College DataTable Component (HTML FILE)



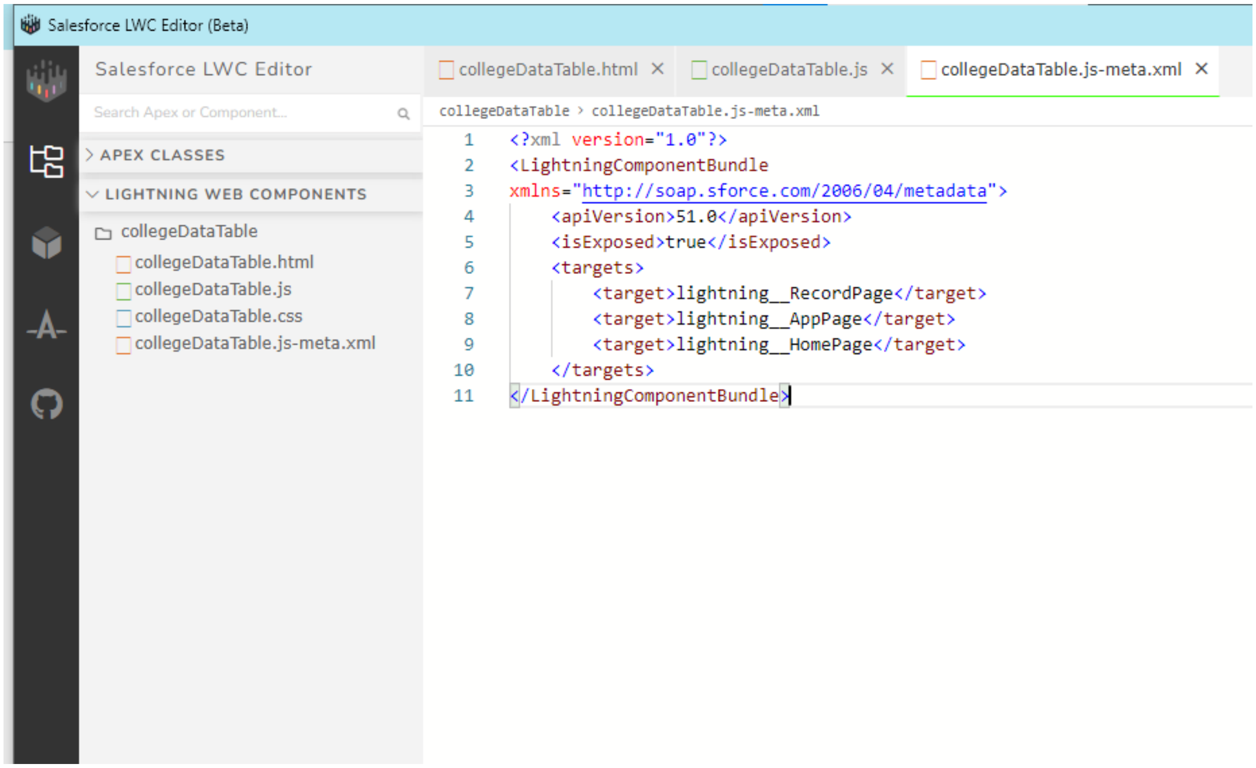
```
<template>

    <h1> College and Application form list table </h1>

    <template if:true={recordList}>
    <lightning-datatable
        key-field="id"
        data={recordList}
        show-row-number-column
        hide-checkbox-column
        columns={columnsList}
        >
    </lightning-datatable>
    </template>

    <template if:true={error}>
        {error}
    </template>
</template>
```

Create College DataTable Component(JAVA SCRIPT FILE)


Salesforce LWC Editor (Beta)
Salesforce LWC Editor
Search Apex or Component...
APEX CLASSES
LIGHTNING WEB COMPONENTS
collegeDataTable
collegeDataTable.html
collegeDataTable.js
collegeDataTable.css
collegeDataTable.js-meta.xml
collegeDataTable.html
collegeDataTable.js
collegeDataTable › collegeDataTable.js
SRI VENKATESWARAA COLLEGE OF TECHNOLOGY
Use LWC Standard Deployment?

```
import { LightningElement, api, wire } from 'lwc';
import getapplicationvalues
from'@salesforce/apex/GetapplicationDetails.getapplicationvalues';
export default class CollegeDataTable extends LightningElement {
columnsList = [
{label : 'Application Form' , fieldName : 'Name', type:'text' },
{label : 'College Fees' , fieldName : 'College_Fees__c', type:'currency' },
{label : 'Date Of Birth' , fieldName : 'Date_Of_Birth__c', type:'date' },
{label : 'Email' , fieldName : 'Email__c', type:'email' },
{label : 'Hostel Fees' , fieldName : 'Hostel_Fees__c', type:'Currency' },
{label : 'StudentName' , fieldName : 'Student_Name__c', type:'text' }
        ];

        @api recordId;
    recordList;
    error;

    @wire(getapplicationvalues, {CollegeId : '$recordId'})
    wiredCollegeData({data, error}){
        if(data){
            this.recordList = data;
        }
        else if(error){
            this.error = error;
            this.recordList = undefined;
        }
    }
}
```

Create College DataTable Component(META FILE)



```
<?xml version="1.0"?>
<LightningComponentBundle
xmlns="http://soap.sforce.com/2006/04/metadata">
    <apiVersion>51.0</apiVersion>
    <isExposed>true</isExposed>
    <targets>
        <target>lightning__RecordPage</target>
        <target>lightning__AppPage</target>
        <target>lightning__HomePage</target>
    </targets>
</LightningComponentBundle>
```