

# College Management Application

## DAY-1

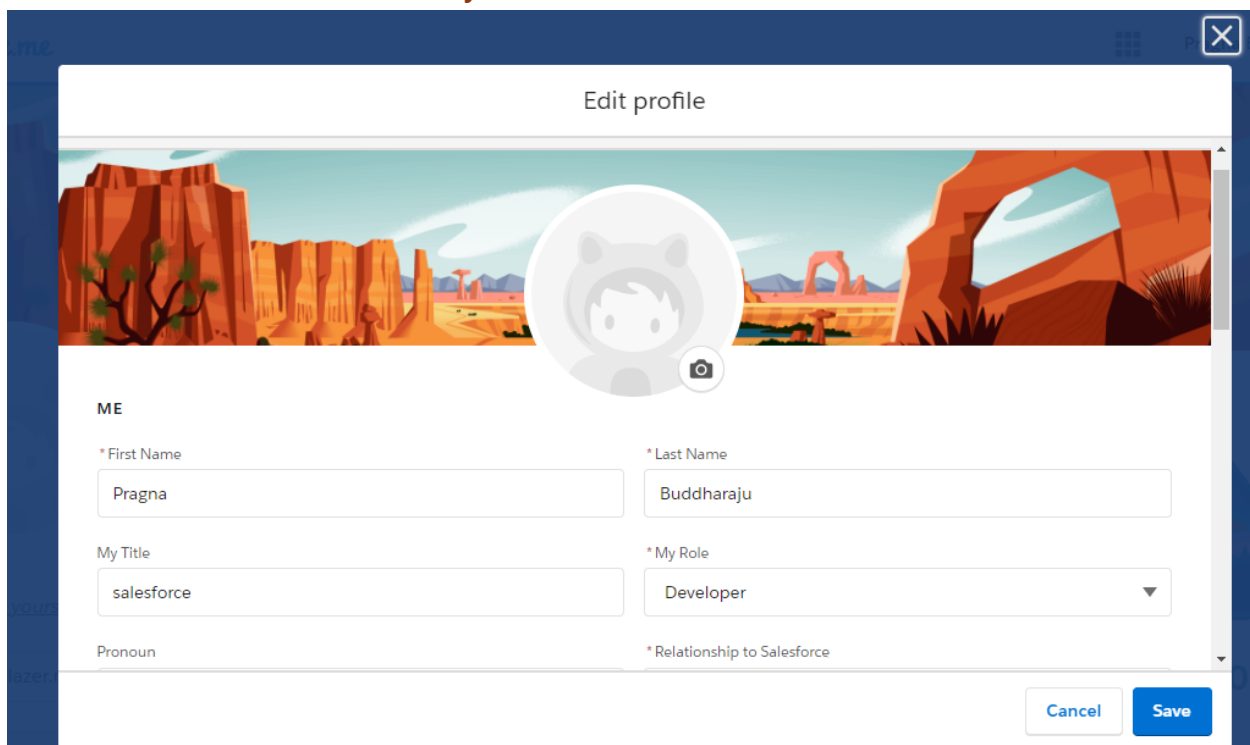
**Topic :** Create Your Salesforce Developer Org To Get Started

**Milestone/Activities :** Creating Developer Account

**Detailed Description :** Salesforce is your customer success platform, designed to help you sell, service, market, analyze, and connect with your customers.

Salesforce has everything you need to run your business from anywhere. Using standard products and features, you can manage relationships with prospects and customers, collaborate and engage with employees and partners, and store your data securely in the cloud.

**Screenshot of Milestone/Activity :**



The screenshot shows the 'Edit profile' interface in Salesforce. At the top, there's a header bar with a close button (X). Below it, the title 'Edit profile' is centered. The main area features a large banner image of a desert landscape with red rock formations. In the center of the banner is a circular profile picture placeholder with a camera icon. Below the banner, the form is organized into sections. The 'ME' section includes fields for 'First Name' (Pragna) and 'Last Name' (Buddharaju). Below these are 'My Title' (salesforce) and 'My Role' (Developer, shown as a dropdown menu). At the bottom, there are fields for 'Pronoun' and 'Relationship to Salesforce'. The form is enclosed in a light blue border, and at the bottom right, there are 'Cancel' and 'Save' buttons.

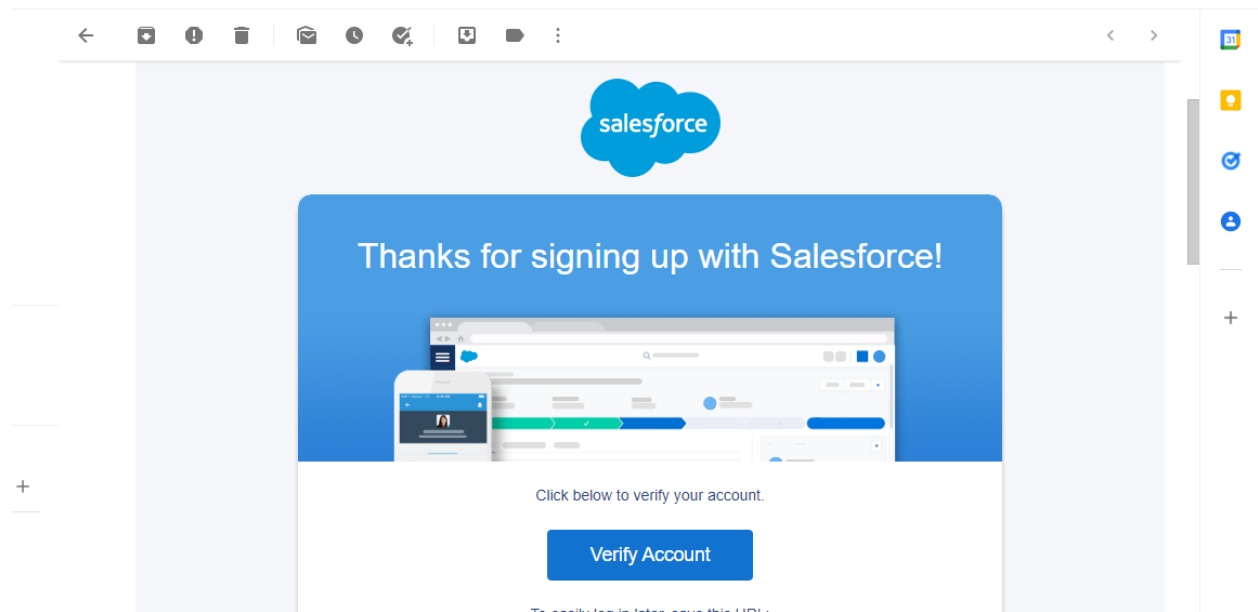
ME	
* First Name	* Last Name
Pragna	Buddharaju
My Title	* My Role
salesforce	Developer
Pronoun	* Relationship to Salesforce

Cancel Save



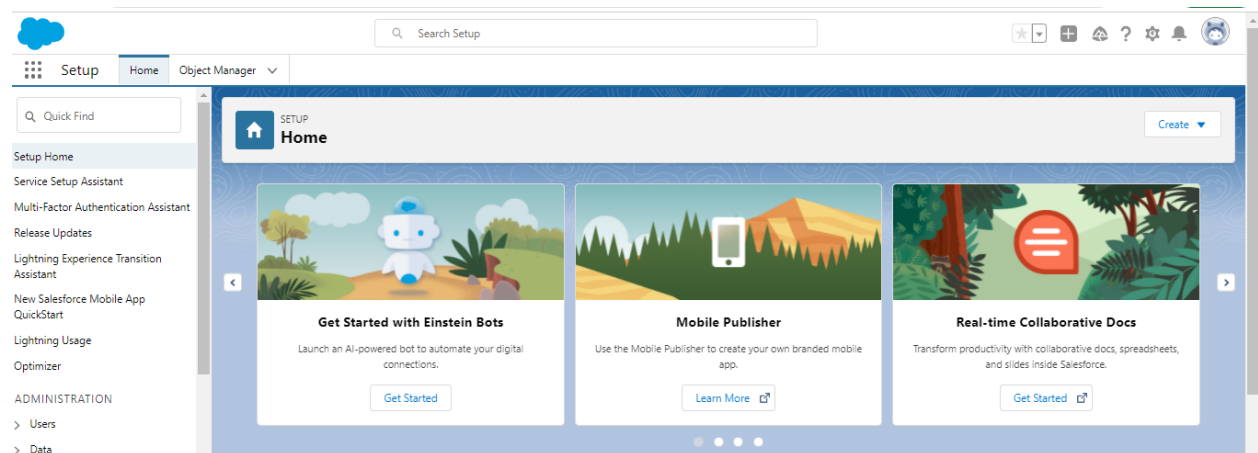
## Milestone/Activities : Account Activation

### Screenshot of Milestone/Activity :



## Milestone/Activities : Login To Your Salesforce Account

### Screenshot of Milestone/Activity :



## DAY-2

**Topic :** Custom Object Creation

**Detailed Description :** Custom Objects For the Application.

**Milestone/Activities :** Create Fields On College Object

**Screenshot of Milestone/Activity :**

The screenshot shows the Salesforce Setup interface for the 'College' object. 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. The fields listed are: Capacity Of Students, College Fees, College Name, Created By, Email, Hostel Fees, Last Modified By, Owner, and Record Info.

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

**Milestone/Activities :** Create Fields On Application Form Object

**Screenshot of Milestone/Activity :**

Setup Home Object Manager

Application Form

Details Fields & Relationships 15 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 ID	Application_Form_ID__c	Auto Number		
College	College__c	Master-Detail(College)	✓	
College Fees	College_Fees__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_Fees__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)		

Type here to search

25°C AQI 119 16:49 07-01-2022

## DAY-3

**Milestone/Activities** :Create Fields On Student Object

**Screenshot of Milestone/Activity :**

Setup Home Object Manager

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(30)		
Students Name	Name	Text(80)		✓

## Milestone/Activities :Create Fields On Subject Object

### Screenshot of Milestone/Activity :

The screenshot shows the Salesforce Setup interface for the 'Subject' object. The 'Fields & Relationships' section is active, displaying a list of 8 fields sorted by Field Label. The fields are:

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	Subject_ID_c	Auto Number		
Subjects Name	Name	Text(80)		✓

## DAY-4

**Topic :** Adding Business Logic To Application

**Milestone/Activities :** Creating Global Picklist Value Sets

College :

**Screenshot of Milestone/Activity :**

Setup

Home

Object Manager

Search Setup

Setup

Picklist Value Sets

Q pickl

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.

Global Value Set

Back to List

Values (0) | Inactive Values (0) | Fields Where Used (0)

Global Value Set Detail

Edit

Delete

Information

Label

College

Name

College

Description

Picklist Values Used

Active and inactive picklist values

0 (1,000 max)

Edit

Delete

Values

New

Reorder

Replace

Printable View

Chart Colors

Action	Values	API Name	Default	Chart Colors	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	MIT-HYD	MIT-HYD	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:30 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	MIT-BLR	MIT-BLR	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:30 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	MIT-MUM	MIT-MUM	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:30 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	MIT-MAA	MIT-MAA	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:30 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	MIT-DEL	MIT-DEL	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:30 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	MIT-CCU	MIT-CCU	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:30 AM

Inactive Values

No inactive Values values defined.

Paper 1:

Screenshot of Milestone/Activity :

Setup

Home

Object Manager

Search Setup

Setup

Picklist Value Sets

Q pickl

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.

Global Value Set

Back to List

Values (0) | Inactive Values (0) | Fields Where Used (0)

Global Value Set Detail

Edit

Delete

Information

Label

Paper 1

Name

Paper\_1

Description

Picklist Values Used

Active and inactive picklist values

4 (1,000 max)

Edit

Delete

Values

New

Reorder

Replace

Printable View

Chart Colors

Action	Values	API Name	Default	Chart Colors	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	APEX	APEX	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:31 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	JAVA	JAVA	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:31 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	C	C	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:31 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	C++	C++	<input type="checkbox"/>	Assigned dynamically	<a href="#">Pragna.Buddharaju</a> 1/8/2022, 3:31 AM

Inactive Values

No inactive Values values defined.

Paper2 :

## Screenshot of Milestone/Activity :

The screenshot shows the Salesforce Setup interface for 'Picklist Value Sets'. The left sidebar contains navigation links for 'Data' (Picklist Settings, State and Country/Territory, Picklists) and 'Objects and Fields' (Picklist Value Sets). The main content area is titled 'Global Value Set' and includes a 'Back to List' link. Below this, there's a 'Global Value Set Detail' section with 'Edit' and 'Delete' buttons. The 'Information' section shows fields for Label, Name, and Description, all set to 'Paper2'. The 'Picklist Values Used' section indicates 3 active and inactive picklist values out of a maximum of 1,000, with 'Edit' and 'Delete' buttons. The 'Values' section features a table with columns for Action, Values, API Name, Default, Chart Colors, and Modified By. The table lists three values: MATHEMATICS, ENGLISH, and STATISTICS, all assigned dynamically and modified by Pragna Buddhachari on 1/8/2022 at 3:32 AM. Below the table is an 'Inactive Values' section.

Global Value Set

Back to List

Values (0) | Inactive Values (0) | Fields Where Used (0)

Global Value Set Detail

Edit Delete

Information

Label Paper2

Name Paper2

Description

Picklist Values Used

Active and inactive picklist values 3 (1,000 max)

Edit Delete

Values

New Reorder Replace Printable View Chart Colors

Action	Values	API Name	Default	Chart Colors	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	MATHEMATICS	MATHEMATICS	<input type="checkbox"/>	Assigned dynamically	Pragna Buddhachari, 1/8/2022, 3:32 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	ENGLISH	ENGLISH	<input type="checkbox"/>	Assigned dynamically	Pragna Buddhachari, 1/8/2022, 3:32 AM
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Deactivate</a>	STATISTICS	STATISTICS	<input type="checkbox"/>	Assigned dynamically	Pragna Buddhachari, 1/8/2022, 3:32 AM

Inactive Values

DAY-5

Milestone/Activities : Creating Field Dependencies

## Screenshot of Milestone/Activity :



Setup Home 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

### College Field Dependencies

[Back to Custom Objects: College](#)

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

Action	Controlling Field	Dependent Field	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>	College Name	Email	Pragna.Buddharaju, 1/4/2022, 7:30 AM
<a href="#">Edit</a>   <a href="#">Del</a>	College Name	Capacity Of Students	Pragna.Buddharaju, 1/4/2022, 7:32 AM

Type here to search

24°C Partly sunny

17:24 08-01-2022

## Milestone/Activities :Creating Validation Rules

### Screenshot of Milestone/Activity :

Setup Home 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

### College Validation Rule

[Back to College](#)

**Validation Rule Detail**

Rule Name	College_Name_Similar	Active	✓
Error Condition Formula	TEXT(College_Name__c) <> Name		
Error Message	please use the class name as record info		
Description			
Created By	Pragna.Buddharaju, 1/4/2022, 7:41 AM	Modified By	Pragna.Buddharaju, 1/10/2022, 3:15 AM

Setup

Home

Object Manager

Application Form

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

Application Form Validation Rule

Back to Application Form

Help for this Page

Validation Rule Detail

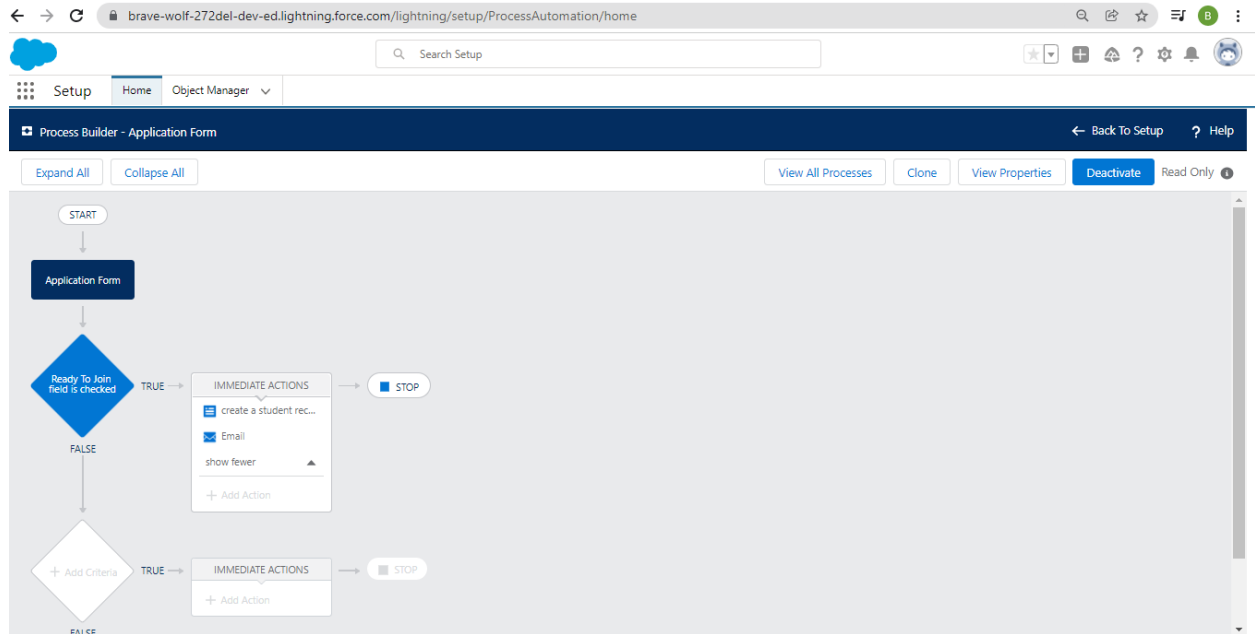
Edit Clone

Rule Name	No_Modifications_on_Application_form	Active	✓
Error Condition Formula	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 ) ) )		
Error Message	No modifications on the application form once a student record is created.	Error Location	Top of Page
Description			
Created By	Praona Buddharaju, 1/10/2022, 3:22 AM	Modified By	Praona Buddharaju, 1/10/2022, 3:23 AM
	Edit Clone		

## DAY-6

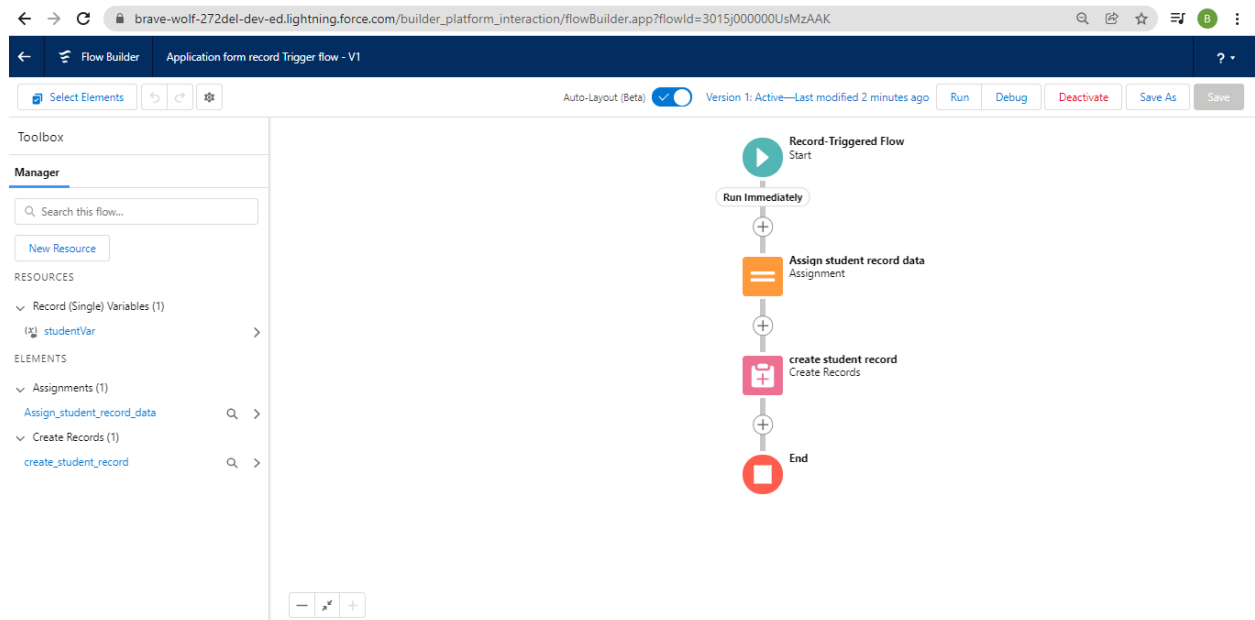
**Milestone/Activities** : Process Automation

**Screenshot of Milestone/Activity** :



**Milestone/Activities** : Create The Student Record Using Flow

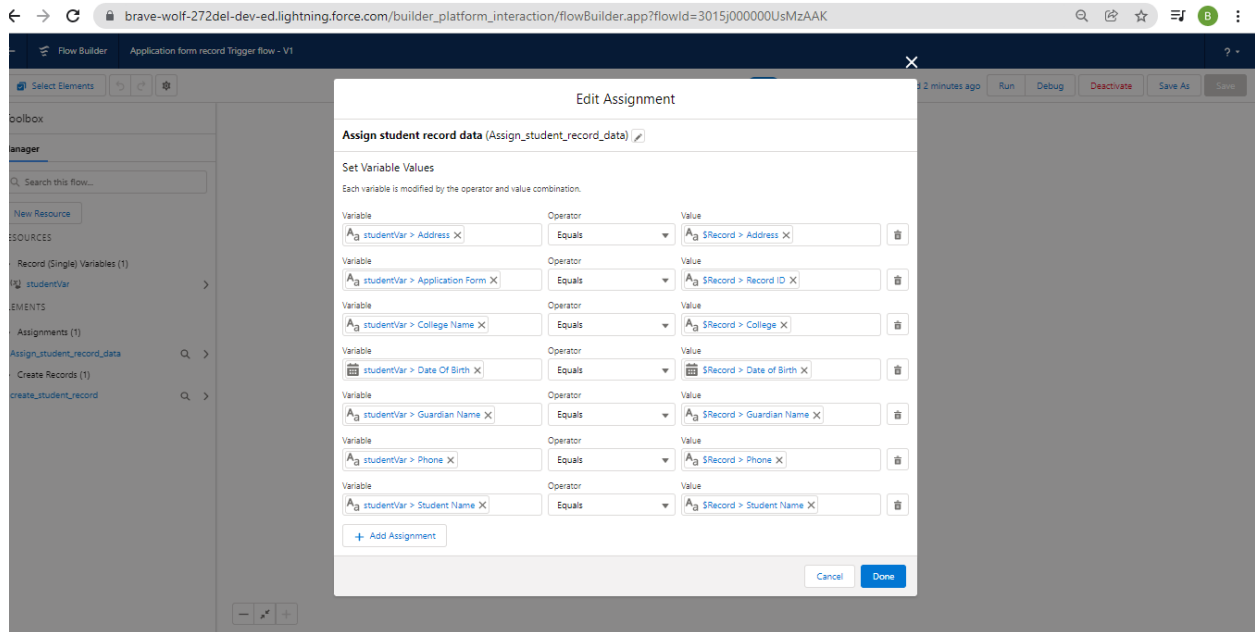
**Screenshot of Milestone/Activity :**



## DAY-7

**Milestone/Activities** : Create The Student Record Using Flow

**Screenshot of Milestone/Activity** :



## DAY-8

**Topic** : Batch Apex

**Milestone/Activities** : Create A Batchapex For Application Form

**Detailed Description** : Batch Apex is used to run large jobs (think thousands or millions of records!) that would exceed normal processing limits. Using Batch Apex, you can process records asynchronously in batches (hence the name, "Batch Apex") to stay within platform limits.

**Screenshot of Milestone/Activity** :

Developer Console - Google Chrome

brave-wolf-272del-dev-ed.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

ApplicationBatchTest.apxc Log executeAnonymous @1/18/2022, 9:22:58 PM

Code Coverage: None API Version: 53 Go To

```
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
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name	Line	Problem
------	------	---------

Developer Console - Google Chrome

brave-wolf-272del-dev-ed.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

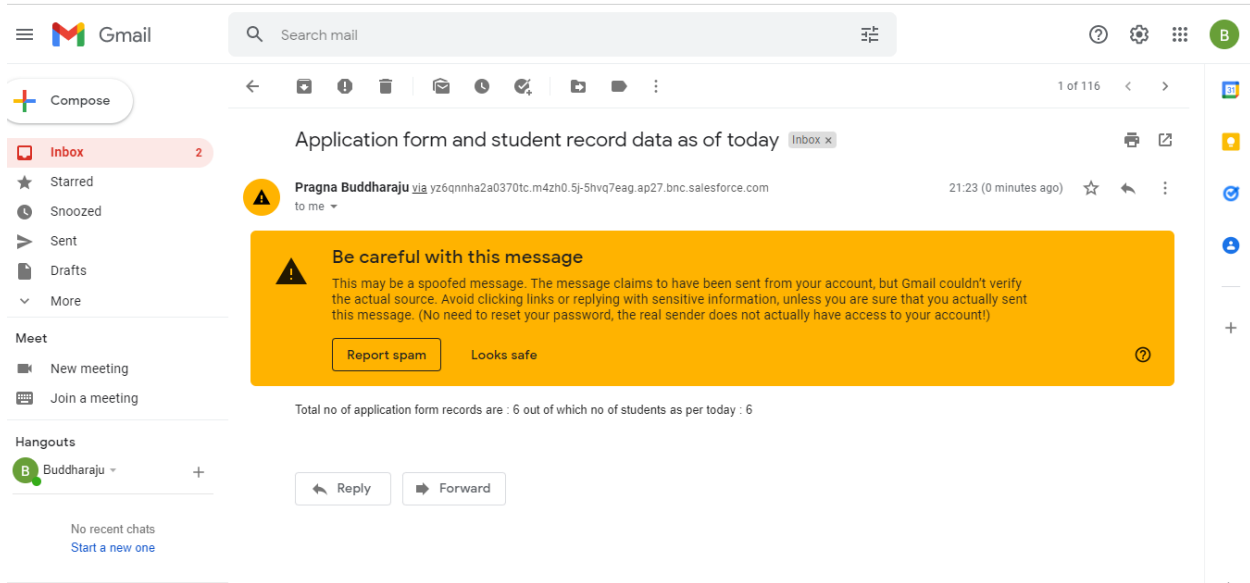
ApplicationBatchTest.apxc Log executeAnonymous @1/18/2022, 9:22:58 PM

Code Coverage: None API Version: 53 Go To

```
16         totalConvertedForms++;
17     }
18 }
19 }
20 public void finish(Database.BatchableContext bc){
21     // emails ,
22     Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
23     // address, subject, content( data to sent to admins)
24     mail.setSubject(' Application form and student record data as of today ');
25     mail.setPlainTextBody(' Total no of application form records are : '+totalForms+ ' out of which no of students as per today ');
26     String[] emailAddress = new String[]{'pragnasforce@gmail.com'};
27     mail.setToAddresses(emailAddress);
28     Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail } );
29 }
30 }
31 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

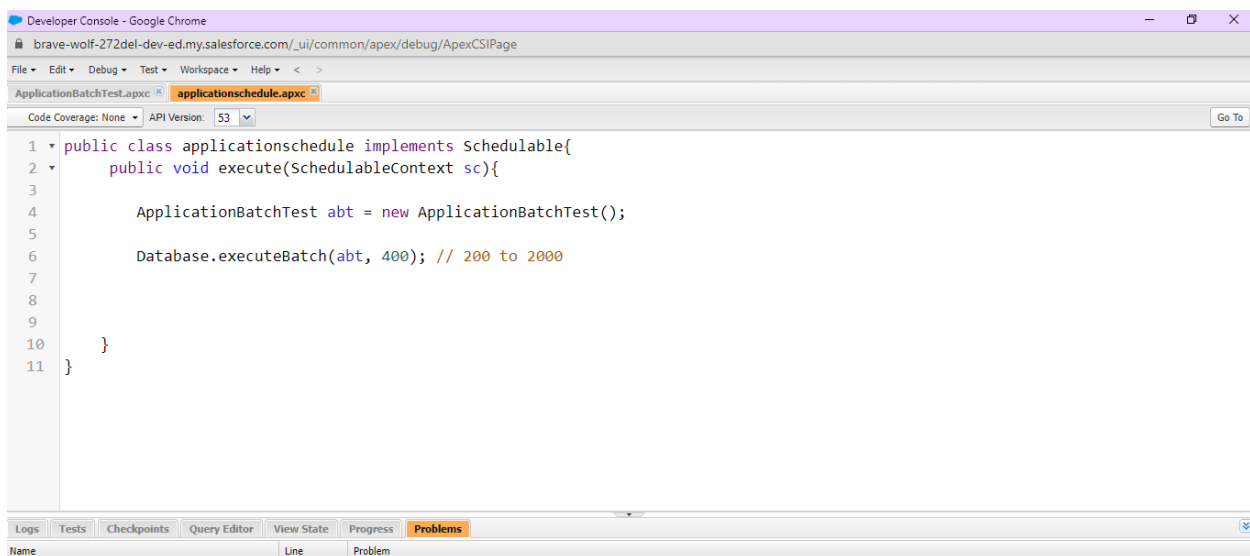
Name	Line	Problem
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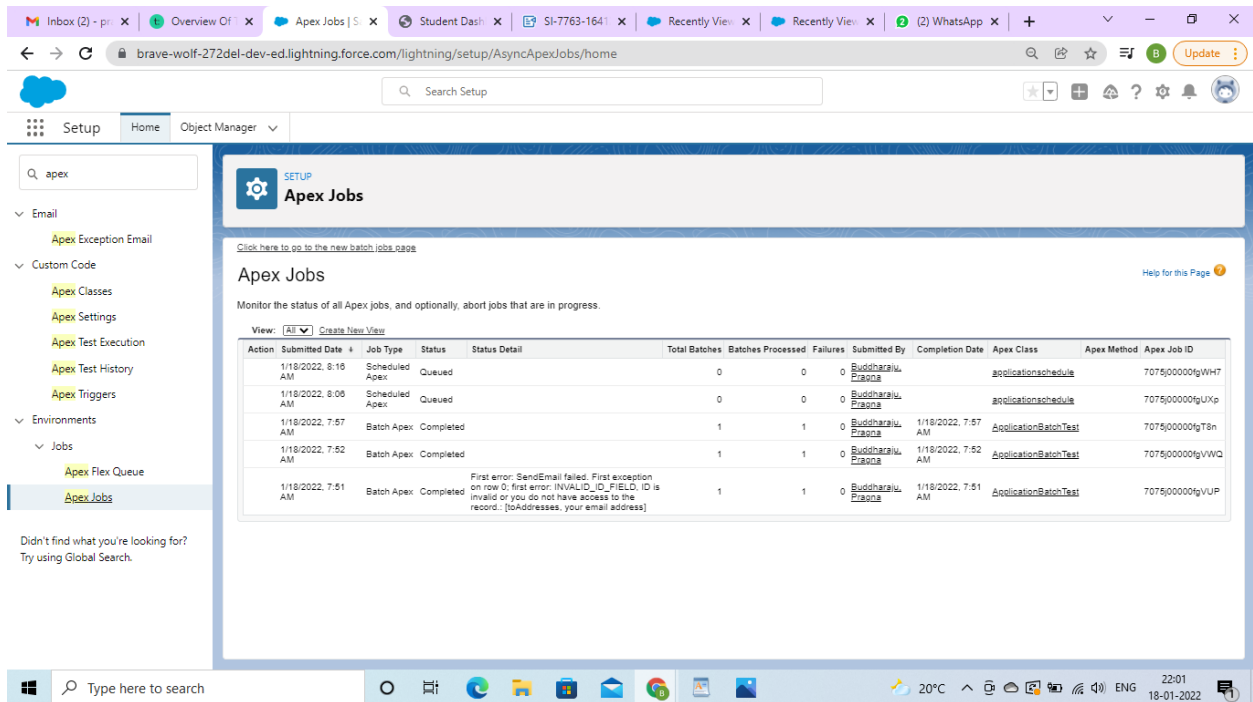
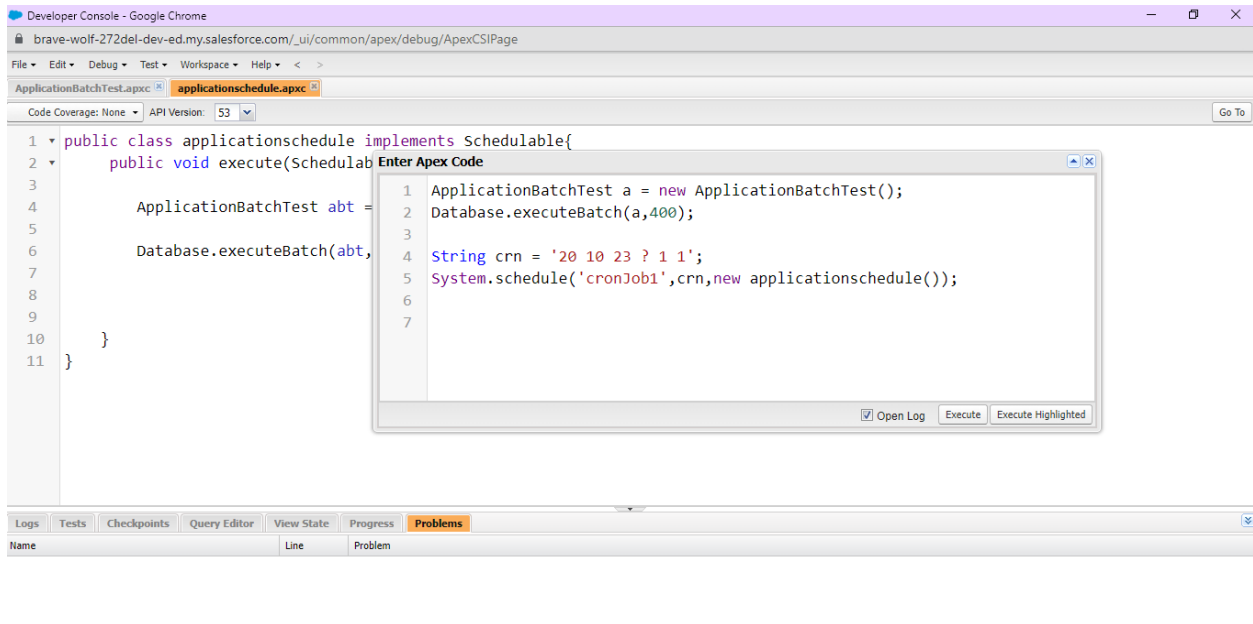


## DAY-9

**Milestone/Activities** :Create A Scheduler Class

**Screenshot of Milestone/Activity :**





**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
<a href="#">Manage</a>   <a href="#">Del</a>	Application form Job	<a href="#">Buddharaju, Pragna</a>	1/18/2022, 6:08 AM		1/21/2022, 11:00 PM	Scheduled Apex
<a href="#">Del</a>	cronJob1	<a href="#">Buddharaju, Pragna</a>	1/18/2022, 6:16 AM		1/23/2022, 11:10 PM	Scheduled Apex
<a href="#">Del</a>	Metalytics Data Loader Job for Org : 0005000005HVq7	<a href="#">User, Integration</a>	1/4/2022, 3:09 AM	1/18/2022, 9:45 AM	1/19/2022, 9:45 AM	Autonomous Data Loader Job

## DAY-10

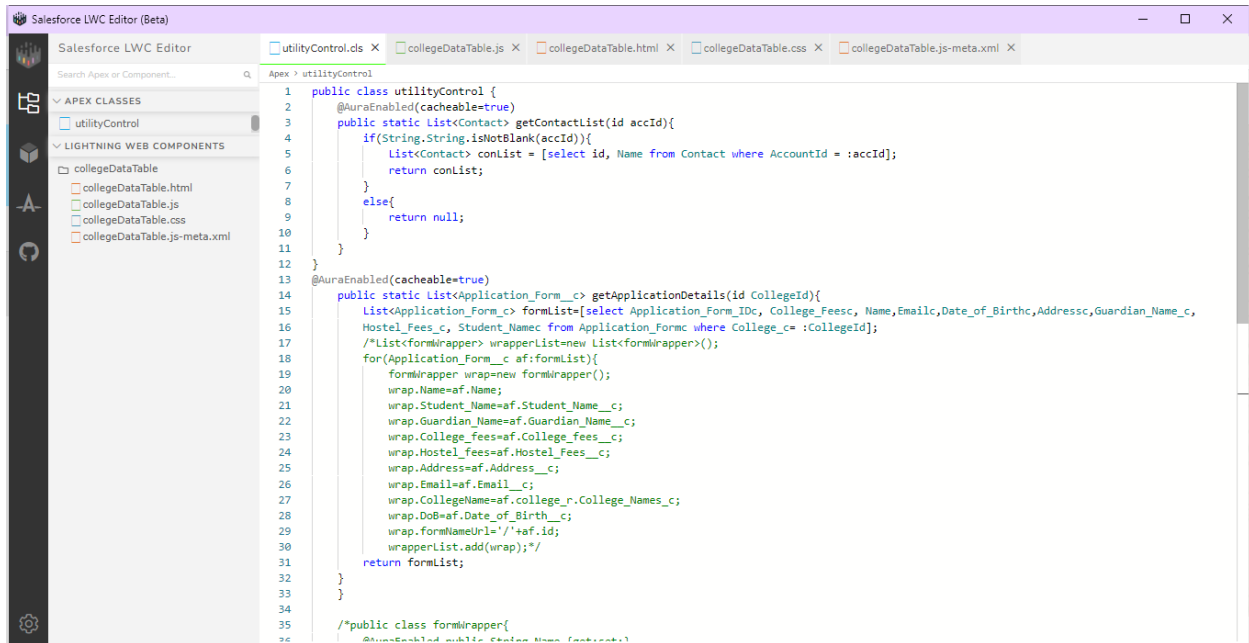
### Topic : Lightning Web Components

**Detailed Description :** Lightning Web Components (LWC) is a stack of modern lightweight frameworks built on the latest web standards. It is a DOM (Document Object Model), element created through reusable code and is used to generate a dynamic interface without using JavaScript or building a Library. This feasibility makes it quick and seamless, saving the developers a ton of time and effort on the Web Stack. Let's look at some of its remarkable features

**Milestone/Activities :** Create College DataTable Component( APEX CLASS)

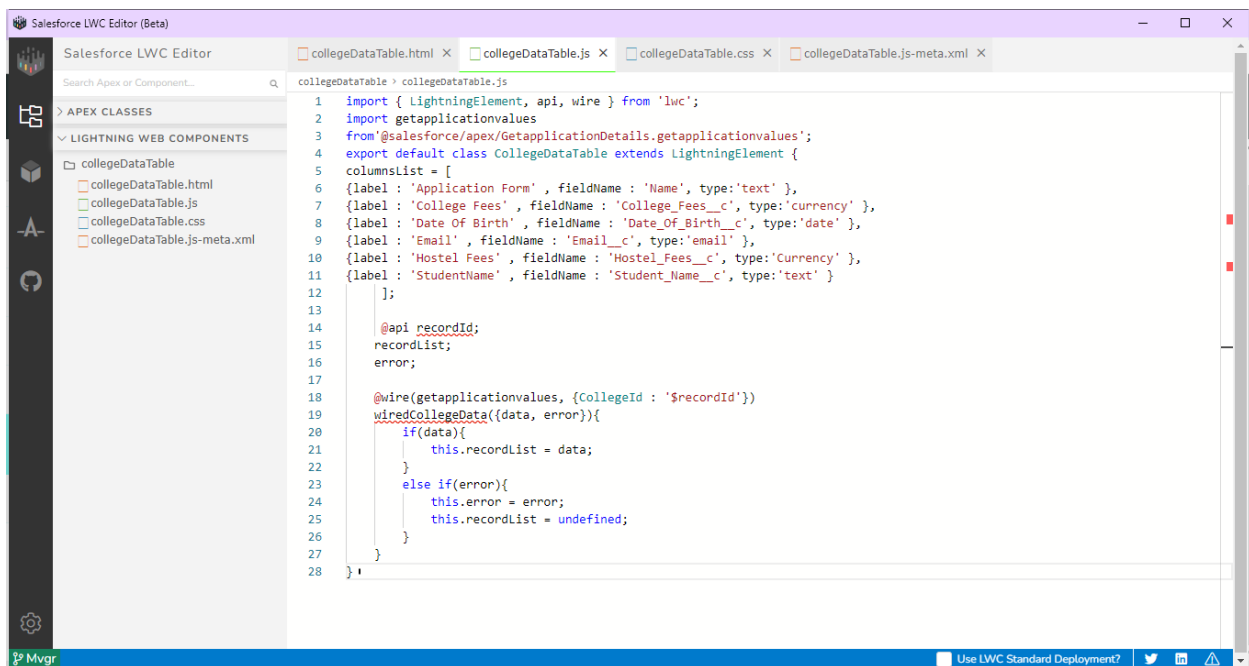
**Screenshot of Milestone/Activity :**





**Milestone/Activities :** Create College DataTable Component(JAVA SCRIPT FILE)

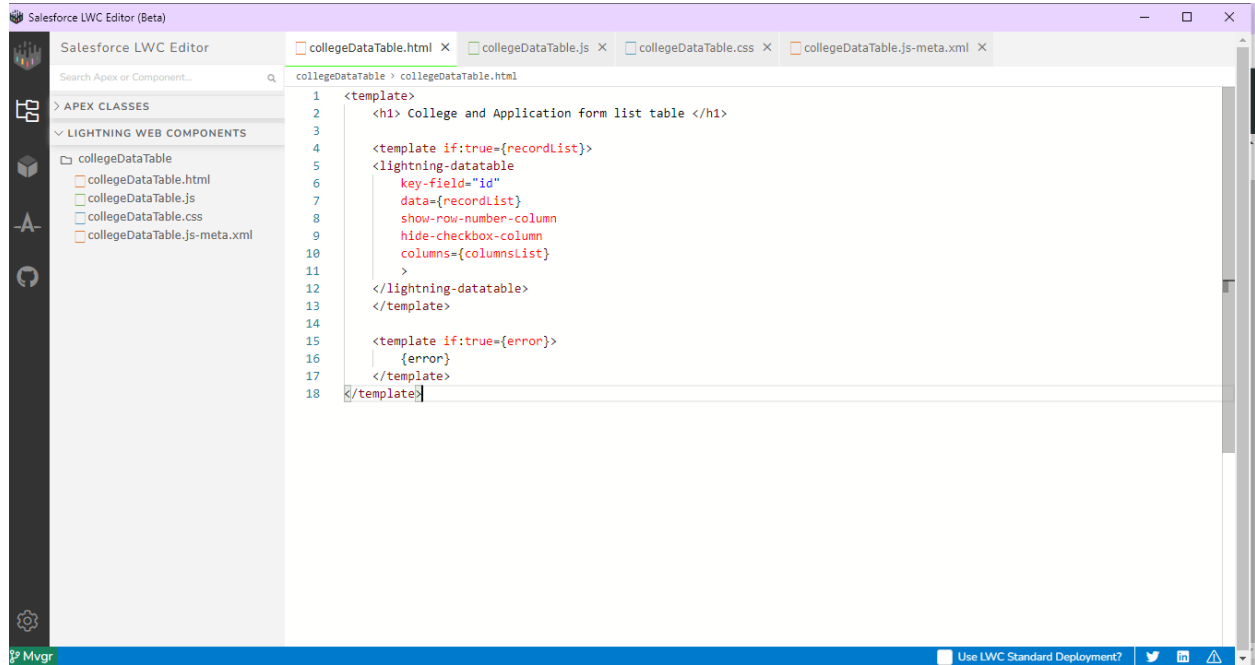
**Screenshot of Milestone/Activity :**



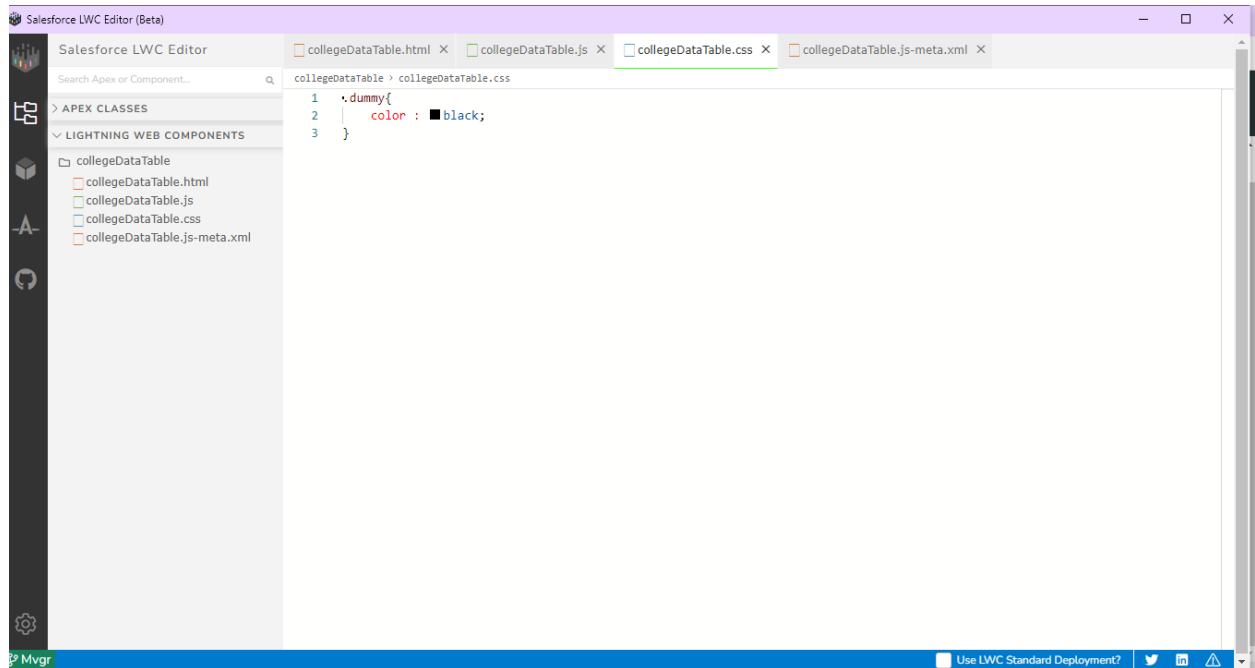
## DAY-11

### Milestone/Activities : Create College DataTable Component (HTML FILE)

#### Screenshot of Milestone/Activity :

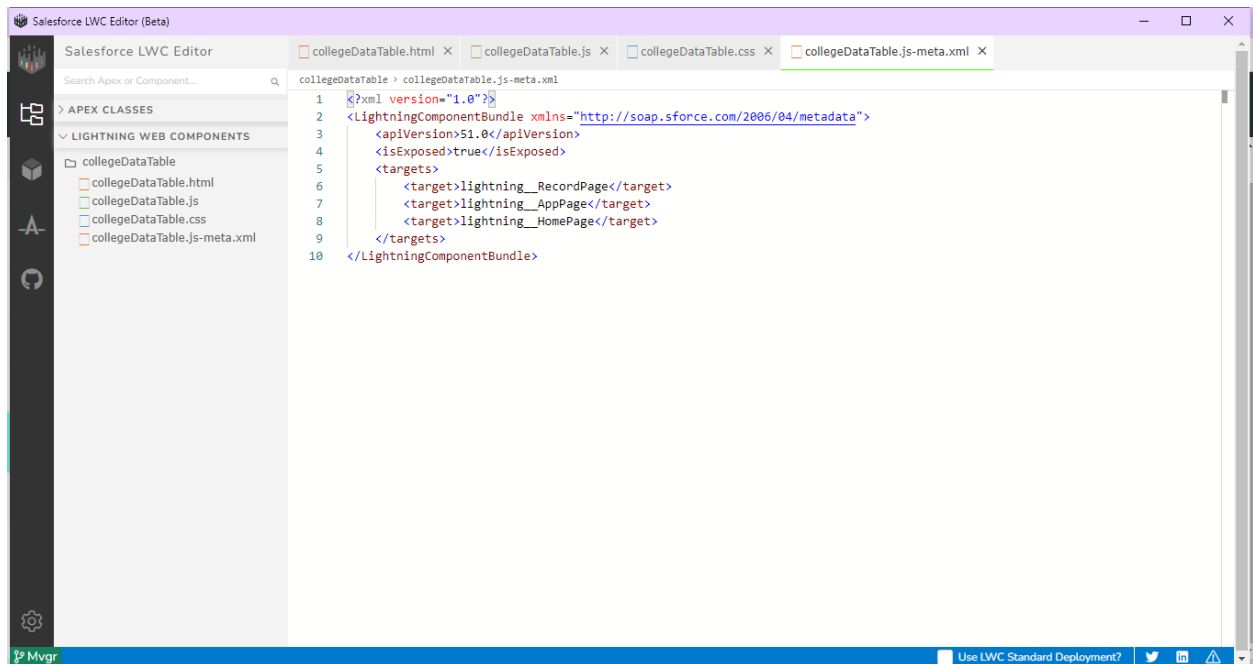


#### Screenshot of Milestone/Activity :



## Milestone/Activities : Create College DataTable Component(META FILE)

### Screenshot of Milestone/Activity :



## DAY-12

## Milestone/Activities : ListIterator

### Screenshot of Milestone/Activity :

