

## TASK -I :

### 1.Creating Developer Account :

Details

**ABOUT ME**

Pronoun she/her/hers	Role Developer
Company Stanley College of Engineering and Technology for ...	Company Size <a href="#">Add</a>
Company Website <a href="#">Add</a>	Country India
State Telangana	Relationship to Salesforce Non-Customer / Prospect

Developer account has been created .

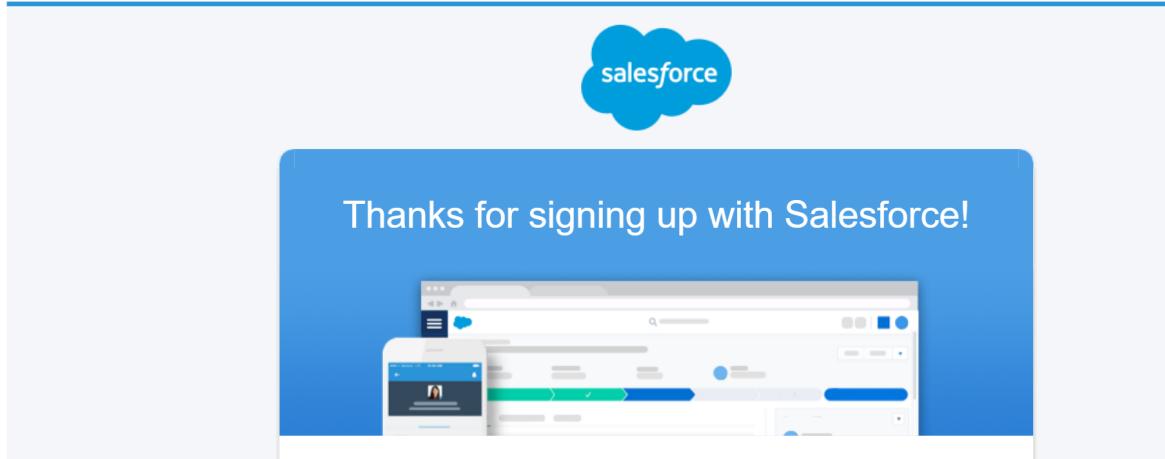
### 2.Account Activation

Welcome to Salesforce: Verify your account [Inbox](#)



developer@salesforce.com <developer@salesforce.com>  
to me ▾

Sun, Jan 9, 8:09 PM (5 days ago)



### 3.Login to your Salesforce Account

The screenshot shows the Salesforce Setup Home page. On the left, there's a sidebar with links for Setup Home, Service Setup Assistant, Multi-Factor Authentication Assistant, Release Updates, Lightning Experience Transition Assistant, New Salesforce Mobile App QuickStart, Lightning Usage, Optimizer, Administration (Users, Data, Email), Platform Tools (Apps, Feature Settings, Workflow Services, Einstein, Objects and Fields), and Help & Support.

# TASK-II :

## CUSTOM OBJECT CREATION:

### 1. COLLEGE:

The screenshot shows the Salesforce Object Manager for the 'College' object. The left sidebar includes 'Details', 'Fields & Relationships' (which is 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', and 'Restriction Rules'. The main area displays the 'Fields & Relationships' section with a table:

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

fields on college object has been created successfully

### 2. APPLICATION FORM :

**Fields & Relationships**

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text Area(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_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)		✓

fields on application form object has been created successfully

### 3. STUDENT :

**Fields & Relationships**

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(20)		✓
Students Name	Name	Text(80)		✓

fields on student object has been created successfully

### 4 SUBJECTS :

fields on subjects object has been created successfully

## TASK-III

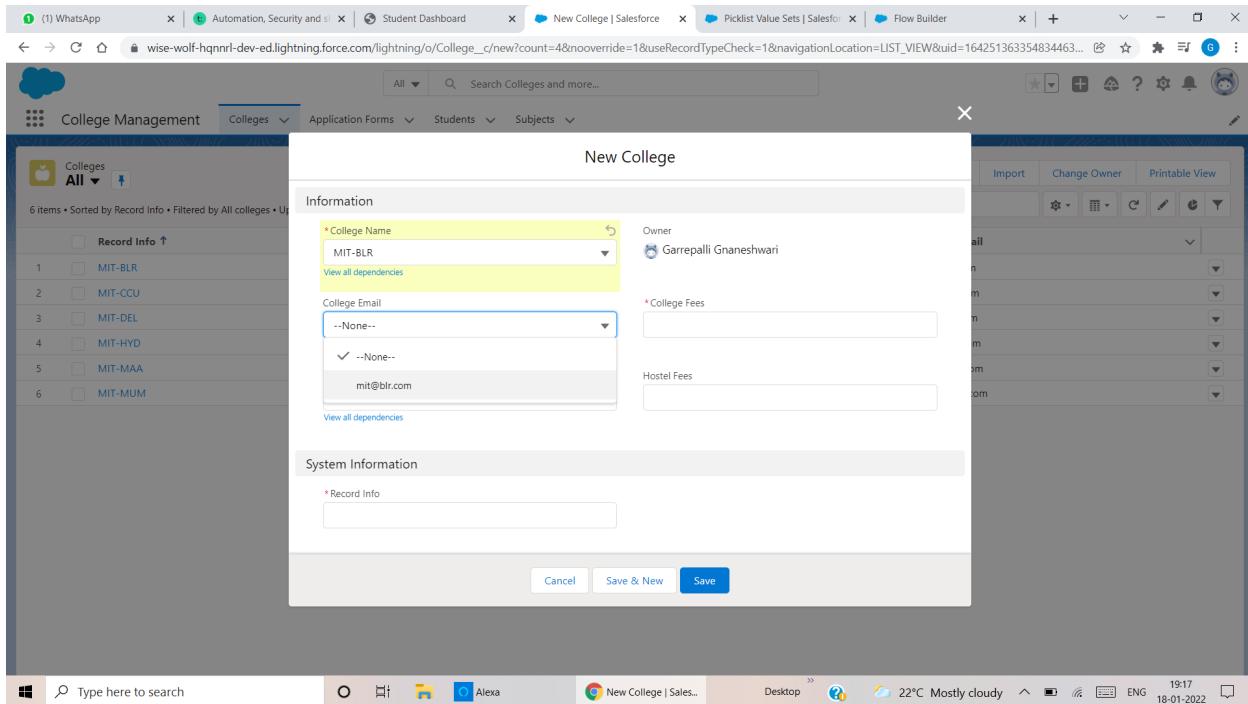
### ADDING BUSINESS LOGIC TO APPLICATION:

#### 1 CREATING GLOBAL PICKLIST VALUES SET :

Action	Label	Description
Edit   Del	College Name	
Edit   Del	Paper_1	
Edit   Del	Paper2	
Edit   Del	Region	For use in region fields throughout AW's org
Deleted Global Value Sets (0)		



#### 2 . CREATING FIELD DEPENDENCIES :



Field dependencies have been created as mentioned for college name, email and capacity of students (for both control and dependencies fields)

Action	Controlling Field	Dependent Field	Modified By
Edit   Del	College Name	College Email	Garrepalli Gnaneshwari, 1/11/2022, 7:29 AM
Edit   Del	College Name	Capacity Of Students	Garrepalli Gnaneshwari, 1/11/2022, 7:36 AM

### 3 . CREATING VALIDATION RULES :

SETUP > OBJECT MANAGER  
College

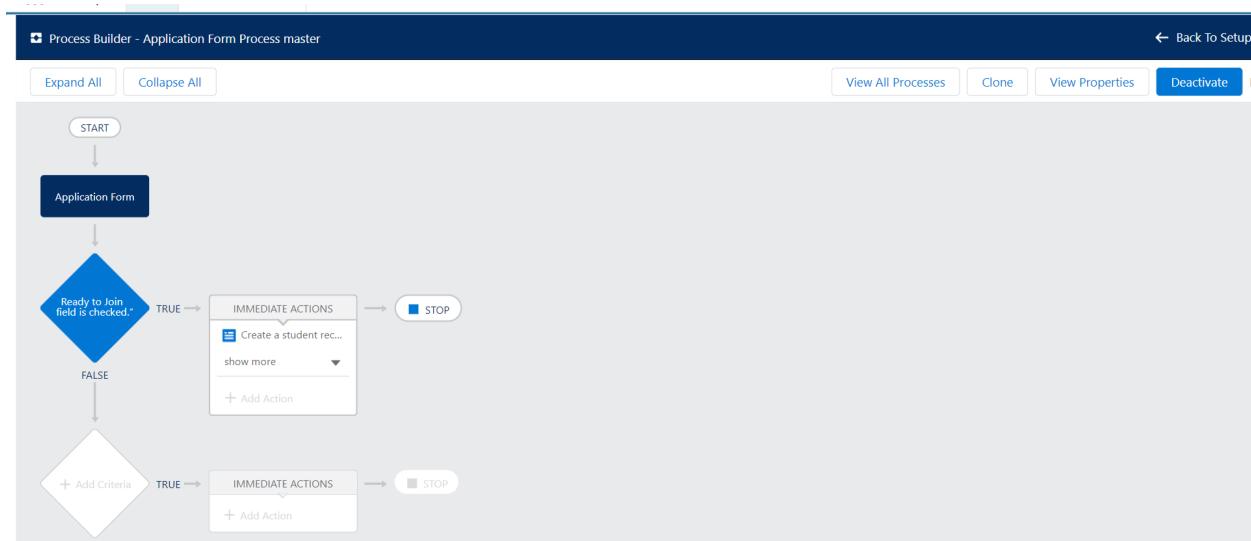
Details	Validation Rules			
Fields & Relationships	1 Items, Sorted by Rule Name			
Page Layouts	RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE
	College_Name_Similar	Top of Page	Please use the college name in Record Info	✓
				Garrepalli Gnaneshwari, 1/12/2022, 10:46 AM

SETUP > OBJECT MANAGER  
Application Form

Details	Validation Rules			
Fields & Relationships	1 Items, Sorted by Rule Name			
Page Layouts	RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE
	Application_Form	Top of Page	use this application form in record info	✓
				Garrepalli Gnaneshwari, 1/18/2022, 7:00 AM

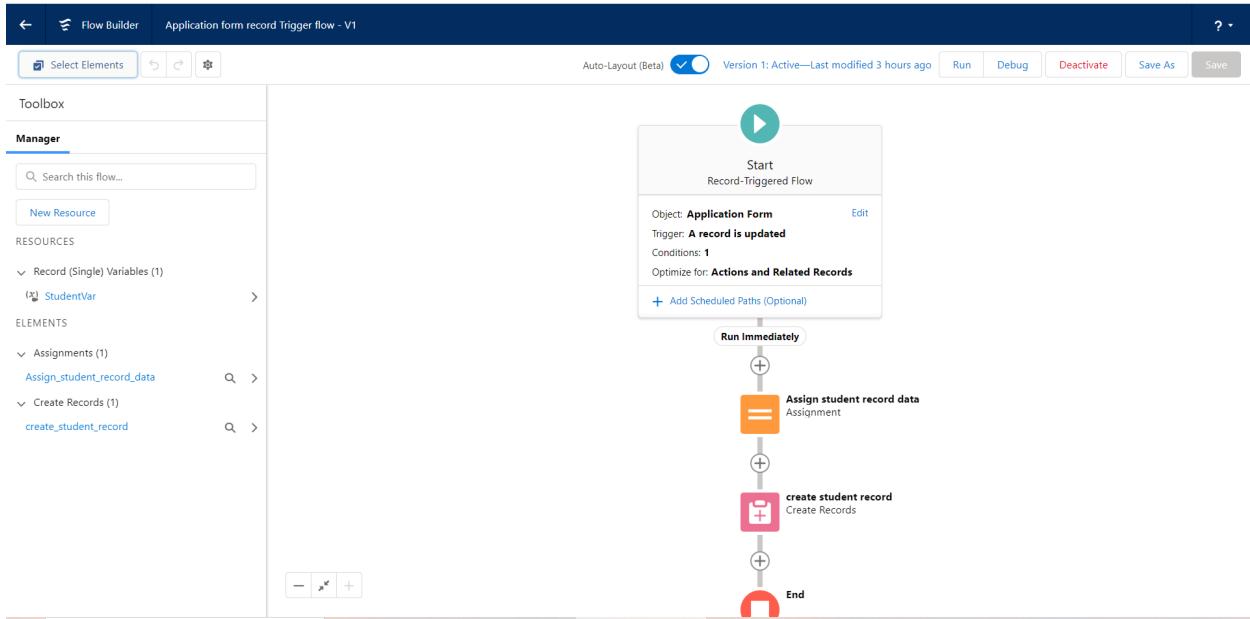
Validation rules for both college and application object has been created.

## 4 PROCESS AUTOMATION :



process automation for the application form has been created and activated ...

# 5 .CREATE THE STUDENT RECORD USING FLOW :



student record for the trigger flow has been created and activated it successfully.

## TASK-IV

### 1.Create A BatchApex For Application Form :

Application Batch Test has created implemented and executed the apex code successfully with 100% code coverage

### 2. Create a Schedular Class :

Application Schedulable class implemented with schedule class and executed by setting the time and date zone shedule apex classes and performed successfully schedule jobs .

The screenshot shows the Salesforce Apex Classes page. At the top, there's a header with a gear icon labeled "SETUP" and "Apex Classes". Below the header, the title "Apex Classes" is displayed. A message bar at the top states "Percent of Apex Used: 0.99%" and "You are currently using 59,420 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." Below the message bar, there are buttons for "Estimate your organization's code coverage" and "Compile all classes". A "View" dropdown menu is set to "All". The main content is a table with columns: Action, Name, Namespace Prefix, Api Version, Status, Size Without Comments, Last Modified By, and Has Trace Flags. The table lists several Apex classes, with the first two rows ("ApplicationBatch.cls" and "applicationSchedule") circled in red.

Action	Name ↑	Namespace Prefix	Api Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit   Del   Security	ApplicationBatch.cls		53.0	Active	38	Garrepalli Gnaneshwari, 1/24/2022, 7:01 AM	<input type="checkbox"/>
Edit   Del   Security	applicationSchedule		53.0	Active	37	Garrepalli Gnaneshwari, 1/24/2022, 7:05 AM	<input type="checkbox"/>
Edit   Del   Security	BotComponent		39.0	Active	2,383	Garrepalli Gnaneshwari, 8/11/2021, 11:19 AM	<input type="checkbox"/>
Edit   Del   Security	BotField		39.0	Active	443	Garrepalli Gnaneshwari, 8/11/2021, 11:19 AM	<input type="checkbox"/>
Edit   Del   Security	BotHandler		39.0	Active	157	Garrepalli Gnaneshwari, 8/11/2021, 11:19 AM	<input type="checkbox"/>
Edit   Del   Security	BotItem		39.0	Active	306	Garrepalli Gnaneshwari, 8/11/2021, 11:19 AM	<input type="checkbox"/>
Edit   Del   Security	BotMessage		39.0	Active	1,310	Garrepalli Gnaneshwari, 8/11/2021, 11:19 AM	<input type="checkbox"/>
Edit   Del   Security	BotMessageButton		20.0	Active	254	Garrepalli Gnaneshwari, 8/11/2021, 11:19 AM	<input type="checkbox"/>

## TASK-V :

### VISUAL CODE (INSTALLED) FOR LWC (LIGHTNING WEB COMPONENTS) :

The screenshot shows the Visual Studio Code interface with the "myfirstLWCjs-meta.xml - COLLEGEMANAGEMENT - Visual Studio Code" tab active. The left sidebar shows the "ORG BROWSER: METADATA" tree view, which is expanded to show "Lightning Web Components" under "Lightning Components". The main editor area displays the "myfirstLWCjs-meta.xml" file content:

```

<?xml version="1.0" encoding="UTF-8"?>
<lightningComponentBundle xmlns="http://soap.sforce.com/2006/04/metadata">
    <apiVersion>52.0</apiVersion>
    <isExposed>false</isExposed>
</lightningComponentBundle>

```

The status bar at the bottom shows "Ln 5, Col 28 Spaces: 4 UTF-8 LF XML ▲ Prettier".

Visual code is connected with salesforce account and installed salesforce extensions packs successfully and all the data is exported to ord and retrieved from org

```
Microsoft Windows [Version 10.0.19043.1415]
(c) Microsoft Corporation. All rights reserved.

C:\Users\gnane>sfdx
Salesforce CLI

VERSION
  sfdx-cli/7.134.0 win32-x64 node-v16.13.2

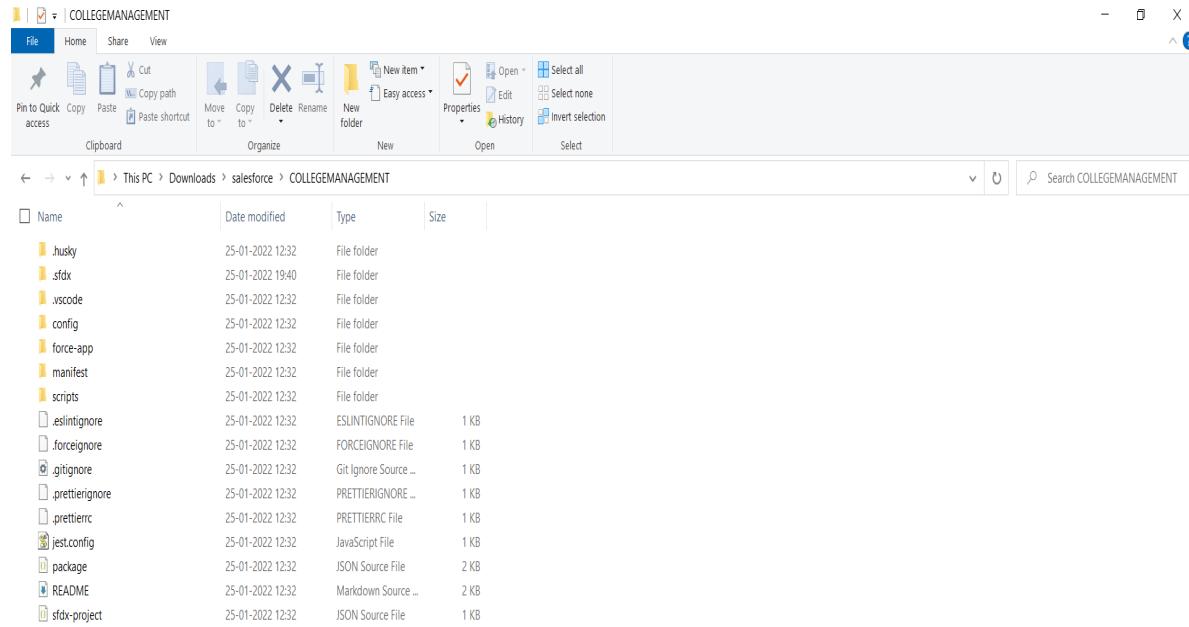
USAGE
  $ sfdx [COMMAND]

TOPICS
  alias    manage username aliases
  auth     authorize an org for use with the Salesforce CLI
  config   configure the Salesforce CLI
  force    tools for the Salesforce developer
  info     access cli info from the command line
  plugins  add/remove/create CLI plug-ins

COMMANDS
  autocomplete  display autocomplete installation instructions
  commands      list all the commands
  help          display help for sfdx
  plugins       list installed plugins
  update        update the sfdx CLI
  which         show which plugin a command is in

C:\Users\gnane>
```

salesforce CLI is sussefully connected



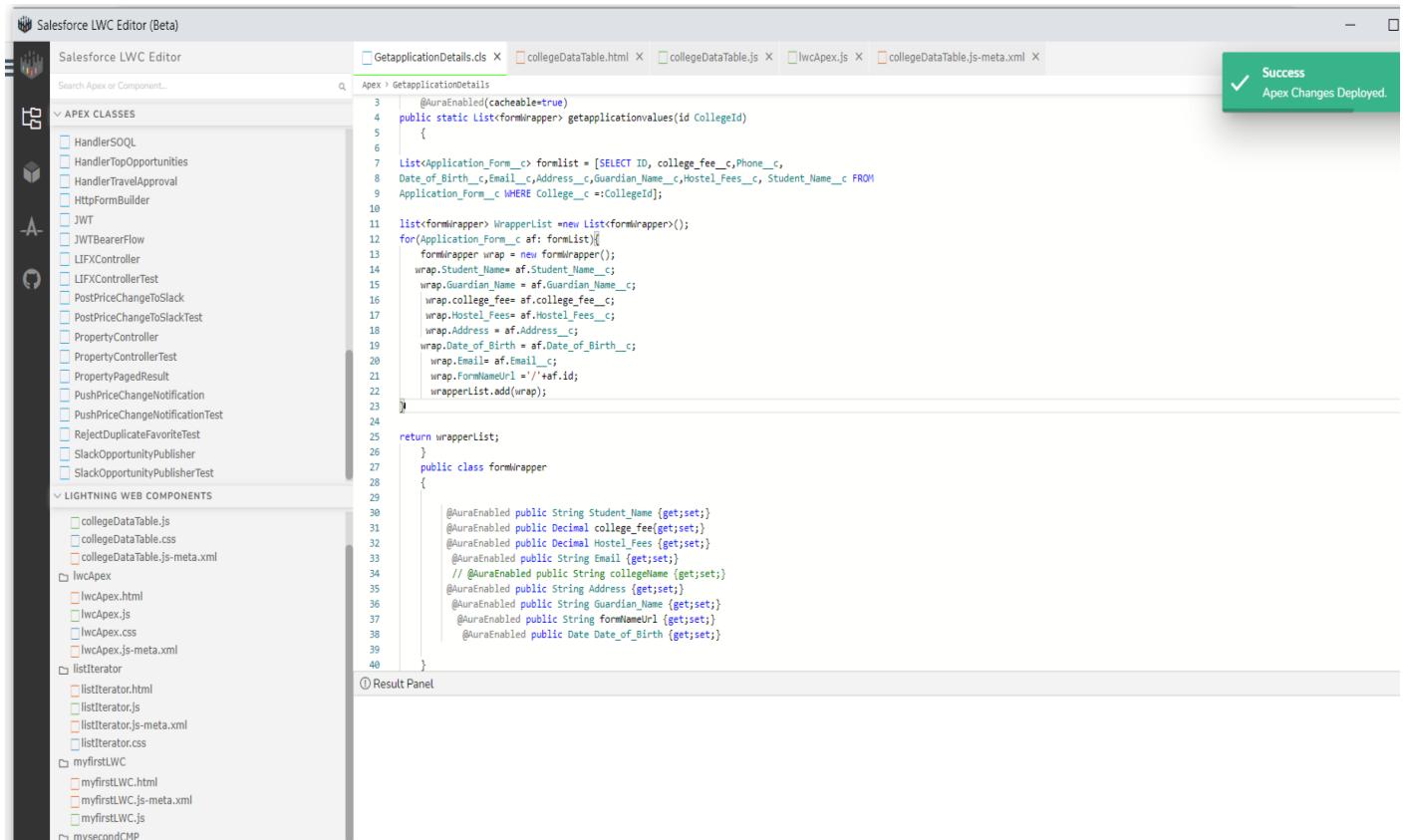
# 1 .CREATE COLLEGE DATA TABLE COMPONENT ( APEX CLASS) :

New Apex class new lwc components has created in salesforce lwc editor and executed sucessfully in console

we are going to create the college data table, for this we need to create an apex class, from which we are going to retrieve the data and Html, javascript files for UI .

for that we have Created an Apex Class With The Required Functionality

GetapplicationDetails

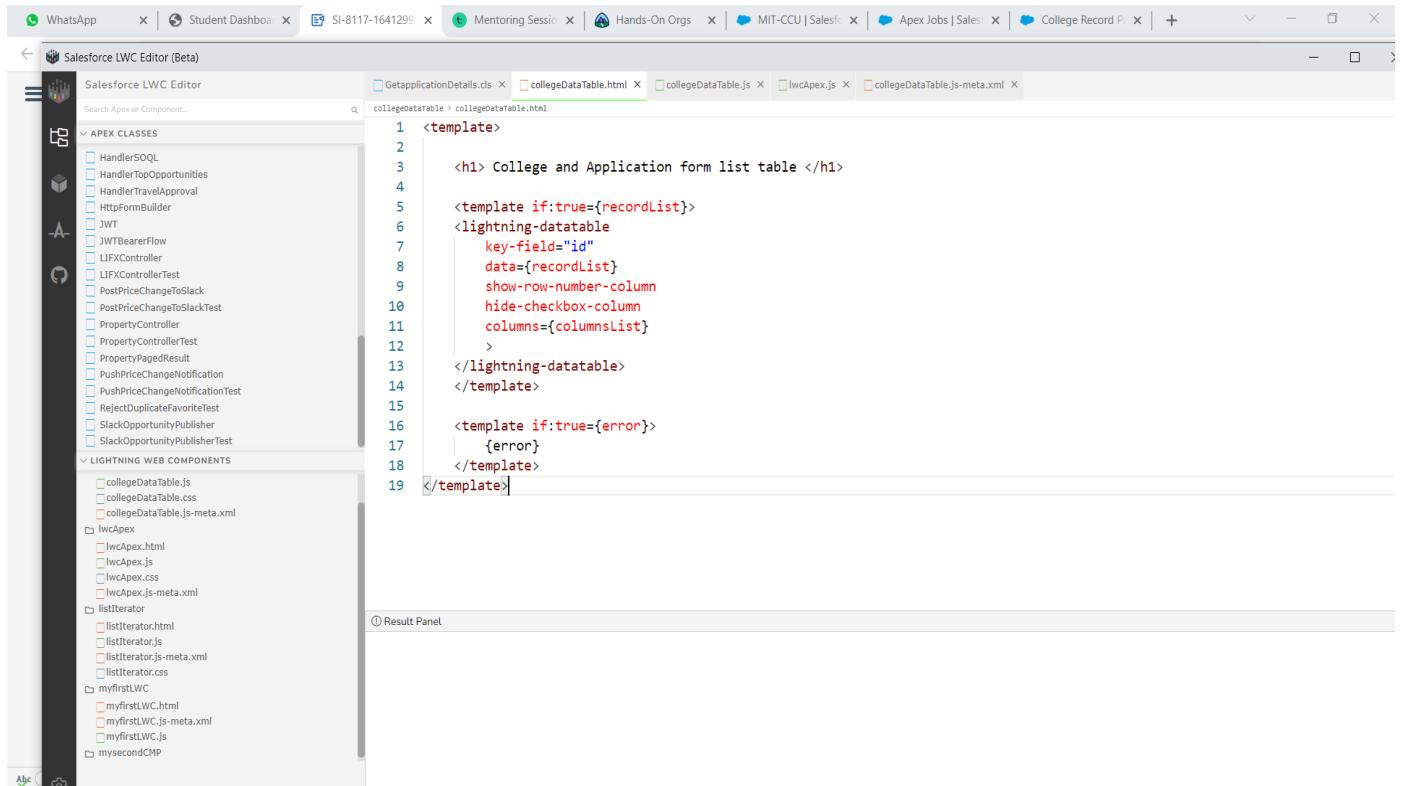


The screenshot shows the Salesforce LWC Editor (Beta) interface. On the left, there's a sidebar with a tree view of project components under "APEX CLASSES" and "LIGHTNING WEB COMPONENTS". The main area displays the code for the "GetapplicationDetails.cls" Apex class. The code retrieves data from the "Application\_Form\_\_c" object based on a college ID and creates a list of "formirrapper" objects. The "formirrapper" class contains getters for various student and college details. A success message "Apex Changes Deployed" is visible in the top right corner.

```
3     @AuraEnabled(cacheable=true)
4     public static List<formirrapper> getapplicationvalues(id CollegeId)
5     {
6
7         List<Application_Form__c> formlist = [SELECT ID, college_fee__c,Phone__c,
8             Date_of_Birth__c,Email__c,Address__c,Guardian_Name__c,Hostel_Fees__c, Student_Name__c FROM
9             Application_Form__c WHERE College__c =:CollegeId];
10
11        list<formirrapper> WrapperList =new List<formirrapper>();
12        for(Application_Form__c c : formlist){}
13            formirrapper wrap = new formirrapper();
14            wrap.Student_Name__c = af.Student_Name__c;
15            wrap.Guardian_Name = af.Guardian_Name__c;
16            wrap.college_fee__c = af.college_fee__c;
17            wrap.Hostel_Fees__c = af.Hostel_Fees__c;
18            wrap.Address__c = af.Address__c;
19            wrap.Date_of_Birth = af.Date_of_Birth__c;
20            wrap.Email__c = af.Email__c;
21            wrap.FormNameUrl = '/'+af.id;
22            wrapperList.add(wrap);
23        }
24
25        return wrapperList;
26    }
27
28    public class formirrapper
29    {
30
31        @AuraEnabled public String Student_Name {get;set;}
32        @AuraEnabled public Decimal college_fee{get;set;}
33        @AuraEnabled public Decimal Hostel_Fees {get;set;}
34        @AuraEnabled public String Email {get;set;}
35        // @AuraEnabled public String collegeName {get;set;}
36        @AuraEnabled public String Address {get;set;}
37        @AuraEnabled public String Guardian_Name {get;set;}
38        @AuraEnabled public String FormNameUrl {get;set;}
39        @AuraEnabled public Date Date_of_Birth {get;set;}
40    }
41 }
```

## 2.Create College DataTable Component (HTML FILE):

Data table component has created in html version



The screenshot shows the Salesforce LWC Editor interface. On the left, there's a sidebar with icons for Apex Classes, Lightning Web Components, and various test classes. The main area displays the code for `collegeDataTable.html`. The code uses the `lightning-datatable` component to create a table for college and application form lists. It includes sections for handling records and errors.

```
<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>
    </error>
</template>
</template>
```

## 3.Create College DataTable Component(JAVA SCRIPT FILE) :

After creating the HTML file , JS file has created , in js file we worked on the main implementation part where all the possible fields of college management applicatins has been performed and retrieved the data in the form of table

The screenshot shows the Salesforce LWC Editor interface. On the left, there's a sidebar with navigation icons and a tree view of components under 'APEX CLASSES' and 'LIGHTNING WEB COMPONENTS'. The main area displays the code for 'collegeDataTable.js'. At the top right, a green success message says 'Success All Changes Deployed.' Below the code editor is a 'Result Panel' showing deployment logs:

```

1 collegeDataTable.html successfully deployed source 26/01/20;
2 collegeDataTable.js successfully deployed source 26/01/20;
3 collegeDataTable.js-meta.xml successfully deployed source 26/01/20;

```

## 4.Create College DataTable Component(META FILE):

The screenshot shows the Salesforce LWC Editor interface. On the left, there's a sidebar with navigation icons and a tree view of components under 'APEX CLASSES' and 'LIGHTNING WEB COMPONENTS'. The main area displays the code for 'collegeDataTable.js-meta.xml'. At the top right, a green success message says 'Success All Changes Deployed.' Below the code editor is a 'Result Panel' showing deployment logs:

```

1 collegeDataTable.html successfully deployed source 26/01/2022
2 collegeDataTable.js successfully deployed source 26/01/2022
3 collegeDataTable.js-meta.xml successfully deployed source 26/01/2022

```

The final outcome for Lightning web components ,the data table has created successfully with the help of an apex class, from which we are retrieved the data and Html, javascript files for UI .

DataTable has been creates successfully

updated the LWC Editor components i.e fields and objects in the schema bulder of particular

record in college Management Application.

The screenshot shows a Salesforce Lightning application interface for 'College Management'. At the top, there is a navigation bar with several tabs: WhatsApp, Student Dashboard, SI-8117-1641299, Mentoring Session, Hands-On Orgs, MIT-CCU | Sales, Apex Jobs | Sales, and College Record. Below the navigation bar is a URL bar showing the path: wise-wolf-hqnrr-dev-ed.lightning.force.com/lightning/r/College\_c/a0E5g000000R6p1EAC/view. The main header features a blue cloud icon, the 'College Management' logo, and a search bar labeled 'Search Colleges and more...'. Below the header is a navigation menu with links to 'Colleges', 'Application Forms', 'Students', 'Subjects', and 'Accounts'. On the right side of the header are icons for 'New Contact' and 'Edit'. The main content area displays a table titled 'College and Application form list table'. The table has columns for Application ID, Application Name, College ID, Date of Birth, Email, Hostel ID, Student ID, Address, and Guardia. There are three rows of data:

	Applicat...	Applicat...	College f...	Date of ...	Email	Hostel F...	Student...	Address	Guardia...
1	/a0F5g00000...	Alekhya	\$1,100,000.00	Jan 4, 2002	gnane200...	15000	Alekhya	bhadrachalam	venu Gopal
2	/a0F5g00000...	Gnaneshwari	\$1,100,000.00	Jan 4, 2001	gna@gma...	15000	Gnaneshwari	opst office la...	Priya
3	/a0F5g00000...	Gayathri	\$1,100,000.00	Mar 30, 2022	gayatri31...	15000	Gayathri	post office la...	Alekhya

To the right of the table is a sidebar titled 'Activity'. It includes sections for 'New Event', 'New Task', and 'Log a Call'. A button 'Set up an event...' is also present. Below these sections is a note about filters and a link to 'Ref'. Under the 'Upcoming & Overdue' section, it says 'No next steps.' and 'To get things moving, add a task or se'. At the bottom of the sidebar, it says 'No past activity. Past meetings and tasks marke'.

IN the above image we have retrieved the data in the data table Sucessfullyby executing the LWC apex classes , by extenduing the backend of HTML ,JS, and UI