



SALESFORCE PROJECT READY

Entry Level Training & Professional Development
Program

Project Title:

College Management Application

Day 1:

Topic: Create Your Salesforce Developer Org To Get Started

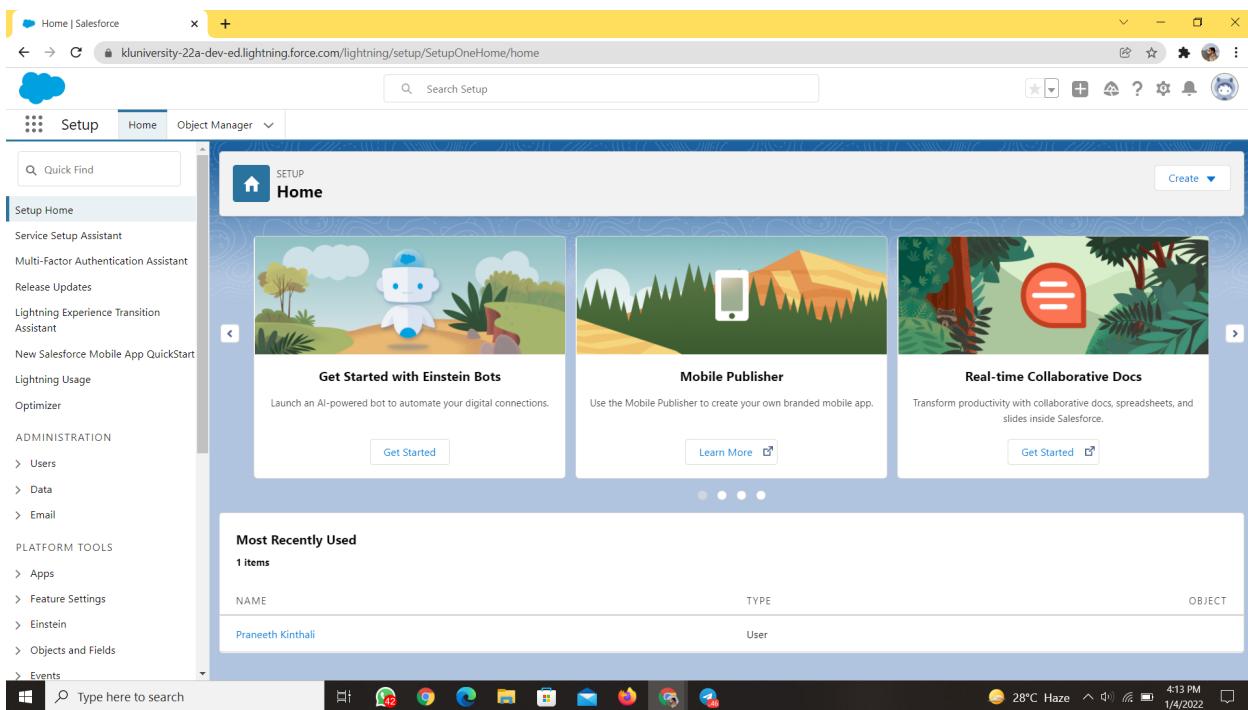
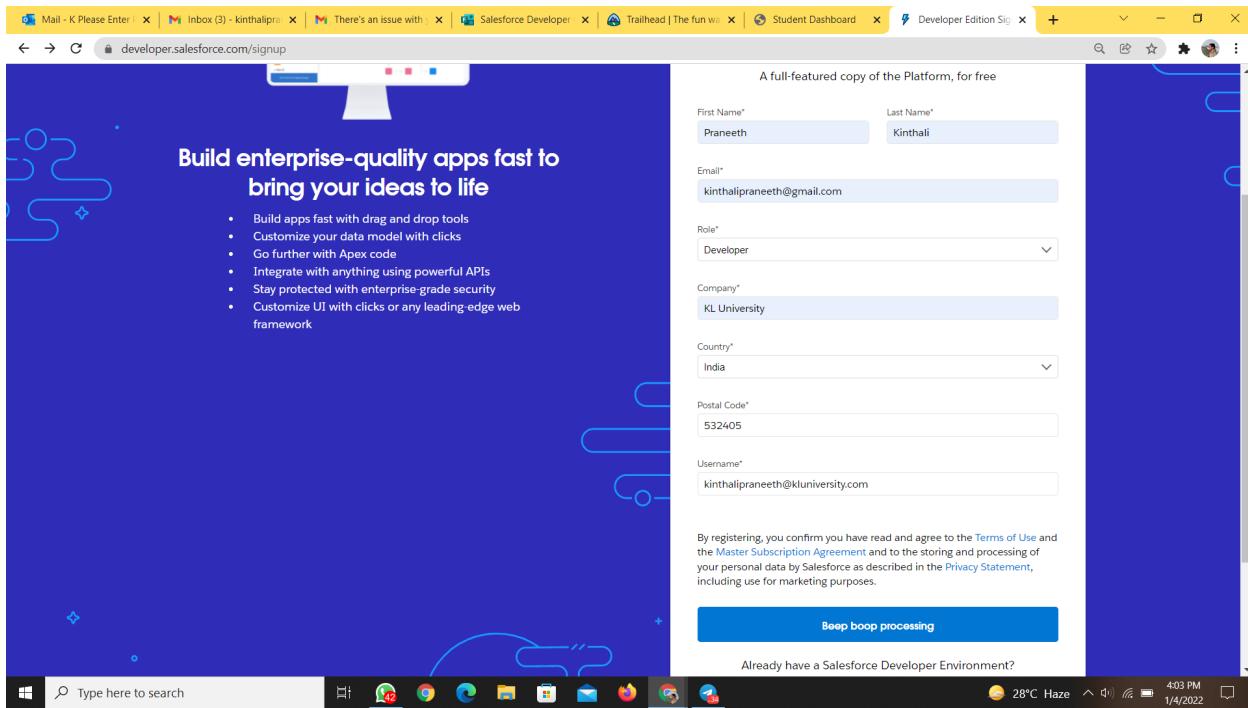
Milestone / Activities:

- Creating Developer account
- Account Activation
- Login To Your Salesforce Account

Detailed Description:

- First of all we have to open an URL: <https://developer.salesforce.com/>
- We have to click on the signup button and we have to fill the complete details on the page which have been provided.
- We have to click on the signup and you will receive an mail from the **developer@salesforce**
- So we have to verify the mail then it will login to your developer account.
- Then you have to click on this link: <https://login.salesforce.com/> to login into your salesforce account.
- You will get an dashboard called verify the Contact number you have to enter your number and press enter key.
- You will receive an OTP check your phone and enter the OTP which you have got to verify the account.
- After clicking on submit OTP it will be directly login to your salesforce account which you have been created.
- Thus the process of creating an account in salesforce thus you can start your task and you can proceed in your account.

Upload the Screenshot the Milestone / Activities :



Day 2:

Topic: Custom Object Creation

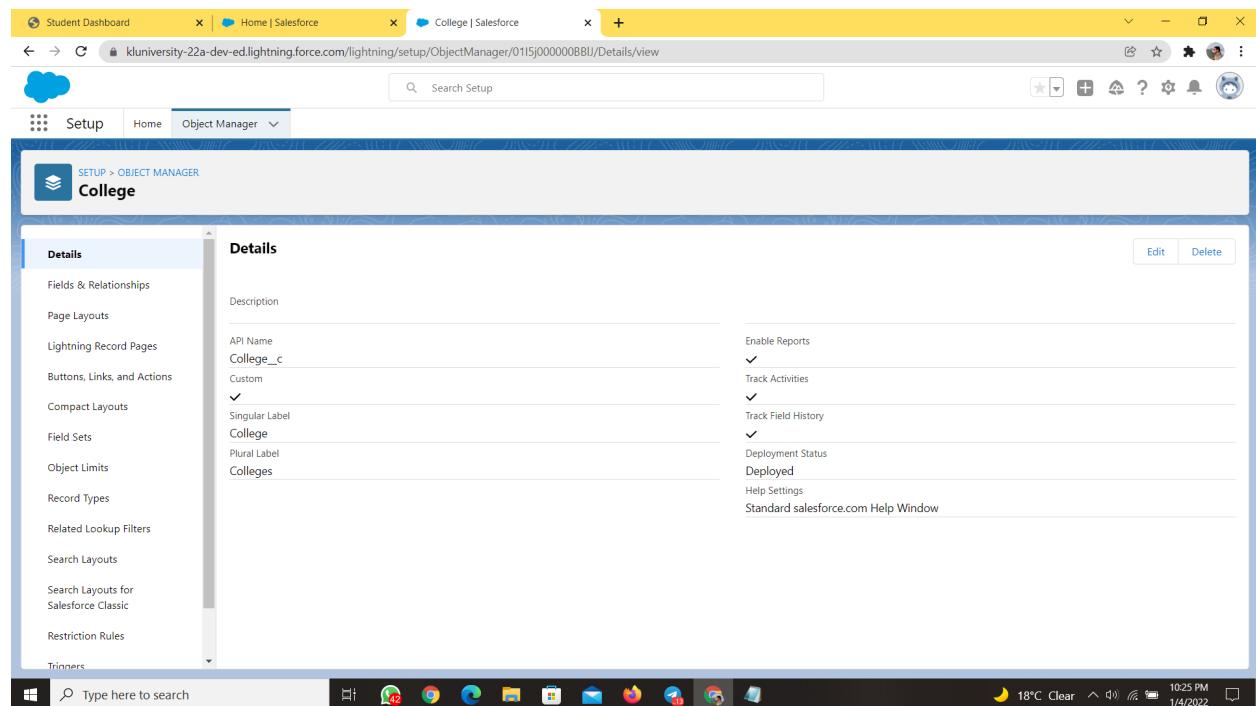
Milestone / Activities:

- Create The Custom Objects For The Application
- Create Fields On College Object
- Create Fields On Application Form Object
- Create Fields On Student Object
- Create Fields On Subject Object

Detailed Description:

- First I have created the custom objects then after I created all the fields in College, Application form, Student and Subject objects according to the project details.

Upload the Screenshot the Milestone / Activities :



Student Dashboard | Home | Salesforce | Application Form | Salesforce

kluniversity-22a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01I5j000000BBIO/Details/view

Setup Home Object Manager

Search Setup

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

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

Type here to search

18°C Clear 10:26 PM 1/4/2022

This screenshot shows the 'Application Form' object setup page in Salesforce. The left sidebar lists various configuration tabs such as Fields & Relationships, Page Layouts, and Record Types. The main 'Details' section shows the API name as 'Application_Form__c', labeled as 'Custom'. Other settings include 'Enable Reports' and 'Track Activities' checked, and 'Deployment Status' set to 'Deployed'. The bottom of the page includes standard Salesforce navigation and a system status bar.

Student Dashboard | Home | Salesforce | Students | Salesforce

kluniversity-22a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01I5j000000BBIT/Details/view

Setup Home Object Manager

Search Setup

Students

Details

Description

API Name: Students__c

Custom: ✓

Singular Label: Students

Plural Label: Students

Enable Reports: ✓

Track Activities: ✓

Track Field History: ✓

Deployment Status: Deployed

Help Settings: Standard salesforce.com Help Window

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

Type here to search

18°C Clear 10:26 PM 1/4/2022

This screenshot shows the 'Students' object setup page in Salesforce. Similar to the previous application form, it has a sidebar with various configuration tabs and a main 'Details' section with specific settings. The API name is 'Students__c', and it is also labeled as 'Custom'. The deployment status is 'Deployed'. The bottom of the page includes standard Salesforce navigation and a system status bar.

Student Dashboard | Home | Salesforce | Subjects | Salesforce

kluniversity-22a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000BBIY/Details/view

Setup Home Object Manager

Subjects

Details

Description

API Name: Subjects_c

Custom: ✓

Singular Label: Subjects

Plural Label: Subjects

Enable Reports: ✓

Track Activities: ✓

Track Field History: ✓

Deployment Status: Deployed

Help Settings: Standard salesforce.com Help Window

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

Type here to search

18°C Clear 10:26 PM 1/4/2022

This screenshot shows the Salesforce Setup interface for the 'Subjects' object. The left sidebar lists various configuration options such as Fields & Relationships, Page Layouts, and Record Types. The main content area shows the 'Details' page for the 'Subjects' object, including its API name (Subjects_c), singular label (Subjects), and plural label (Subjects). It also shows deployment status (Deployed) and help settings (Standard salesforce.com Help Window). The top navigation bar includes tabs for Student Dashboard, Home, and Subjects.

Student Dashboard | College | Salesforce

kluniversity-22a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000BBJU/FieldsAndRelationships/view

Setup Home Object Manager

College

Details

Fields & Relationships

9 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity Of Students	Capacity_Of_Students__c	Picklist		
College Fees	College_Fees__c	Currency(18, 0)		
College Name	Name	Text(80)	✓	
Created By	CreatedById	Lookup(User)		
Email	Email__c	Picklist		
Hostel Fees	Hostel_Fees__c	Currency(18, 0)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)	✓	
Record Info	Record_Info__c	Text(80)		

Type here to search

18°C Clear 10:37 PM 1/4/2022

This screenshot shows the Salesforce Setup interface for the 'College' object. The left sidebar lists various configuration options such as Page Layouts, Record Types, and Restriction Rules. The main content area shows the 'Fields & Relationships' page for the 'College' object, displaying a table of fields with their names, types, and controlling fields. The table includes fields like Capacity Of Students, College Fees, College Name, Created By, Email, Hostel Fees, Last Modified By, Owner, and Record Info. The top navigation bar includes tabs for Student Dashboard, Home, and College.

Student Dashboard Application Form | Salesforce SI-7581-1641279651 KLERP

kluniversity-22a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000BBIO/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER Application Form

Fields & Relationships 13 items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		✓
Application Form ID	Application_Form__ID__c	Auto Number		✓
Application Form Name	Name	Text(80)		✓
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		✓
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)		✓

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Type here to search

29°C Partly sunny 3:38 PM 1/5/2022

Student Dashboard Student | Salesforce SI-7581-1641279651

kluniversity-22a-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000BBIT/FieldsAndRelationships/view

Setup Home Object Manager

SETUP > OBJECT MANAGER Student

Fields & Relationships 11 items, Sorted by Field Label

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)		✓
Students Name	Name	Text(80)		✓

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Type here to search

29°C Partly sunny 3:45 PM 1/5/2022

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 3 :

Topic: Adding Business Logic to Application

Milestone / Activities:

- Creating Global Picklist value sets
- Creating Field Dependencies
- Create Validation Rule on College Object

Detailed Description:

- First I have created global picklist value sets Setup>Quick Find box>picklist value sets>new then I have created field dependencies ,setup>object manager>college>field and relationship>field dependencies>new then I have created validation rule , setup>object manager >college>validation rule>new

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface with the following details:

- Setup** tab selected.
- Object Manager** dropdown.
- Search bar**: Search term: "pic".
- Left sidebar categories**:
 - Data** section: Picklist Settings, State and Country/Territory, Picklists.
 - Feature Settings** section: Topics (Topic Assignment Triggers, Topic Triggers, Topic for Objects).
 - Objects and Fields** section: Picklist Value Sets (selected).
- Picklist Value Sets page**:
 - Header**: SET UP Picklist Value Sets.
 - Section**: Picklist Value Sets.
 - Text**: 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 dropdown**: All (selected), Create New View.
 - Help link**: Help for this Page.
 - Table** (Global Value Sets):
 | Action | Label | Description | |
|---|---|---|---|
| Edit | Del | College | |
| Edit | Del | Paper1 | |
| Edit | Del | Paper2 | |
| Deleted Global Value Sets (0) | | |
 - Message**: Didn't find what you're looking for? Try using Global Search.

The screenshot shows the Salesforce Setup interface with the following details:

- Setup** tab selected.
- Object Manager** dropdown.
- Object Manager page** for **College**:
 - Details** section.
 - Fields & Relationships** section (selected).
 - Page Layouts**, **Lightning Record Pages**, **Buttons, Links, and Actions**, **Compact Layouts**, **Field Sets**, **Object Limits**, **Record Types**, **Related Lookup Filters**, **Restriction Rules**, **Triggers**, **Validation Rules**.
- College Field Dependencies page**:
 - Header**: SETUP > OBJECT MANAGER College.
 - Section**: College Field Dependencies.
 - Text**: This page allows you to define dependencies between fields (e.g., dependent picklists).
 - Help link**: Help for this Page.
 - Table** (Field Dependencies):
 | Action | Controlling Field | Dependent Field | Modified By | |
|---|---|---|---|---|
| Edit | Del | College Name | Email | POOJITHA.GOLUSULA 1/5/2022, 8:23 AM |
| Edit | Del | College Name | Capacity Students | POOJITHA.GOLUSULA 1/5/2022, 8:24 AM |

The screenshot shows the Salesforce Setup interface for the 'College' object. The left sidebar lists various configuration options like Details, Fields & Relationships, Page Layouts, etc. The main content area displays the 'Validation Rule Detail' for 'Rule_1'. The rule is active and has the formula `TEXT(College__Name__c) <> Name`. It has no error message and was created by POOJITHA.GOLUSULA on 1/5/2022 at 8:25 AM.

The screenshot shows the Salesforce Setup interface for the 'Application Form' object. The left sidebar lists various configuration options. The main content area displays the 'Validation Rule Detail' for 'Application_form_rule'. The rule is active and has the formula `AND(Ready__To_Join__c == true,
OR(
ISCHANGED(Address__c),
ISCHANGED(Deploy__c),
ISCHANGED(date_of_Birth__c),
ISCHANGED>Email__c),
ISCHANGED(Guardian_Name__c),
ISCHANGED(Phone__c)
)`. It has no error message and was created by POOJITHA.GOLUSULA on 1/8/2022 at 7:19 AM.

Day 4:

Topic: Adding Business To Logic Application

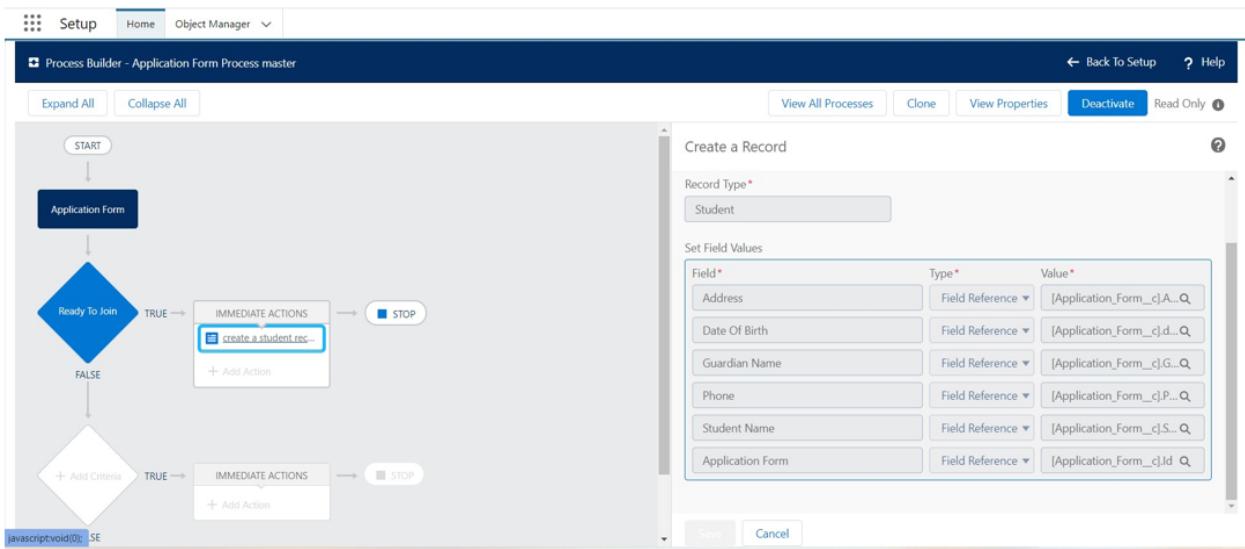
Milestone / Activities:

- Process Automation

Detailed Description:

- I have created builder named Application Form Process master
- Setup > Quick find box > Process Builder > New
- Created as per information given in the project details

Upload the Screenshot the Milestone / Activities :



Day 5:

Topic: Adding Business To Logic Application

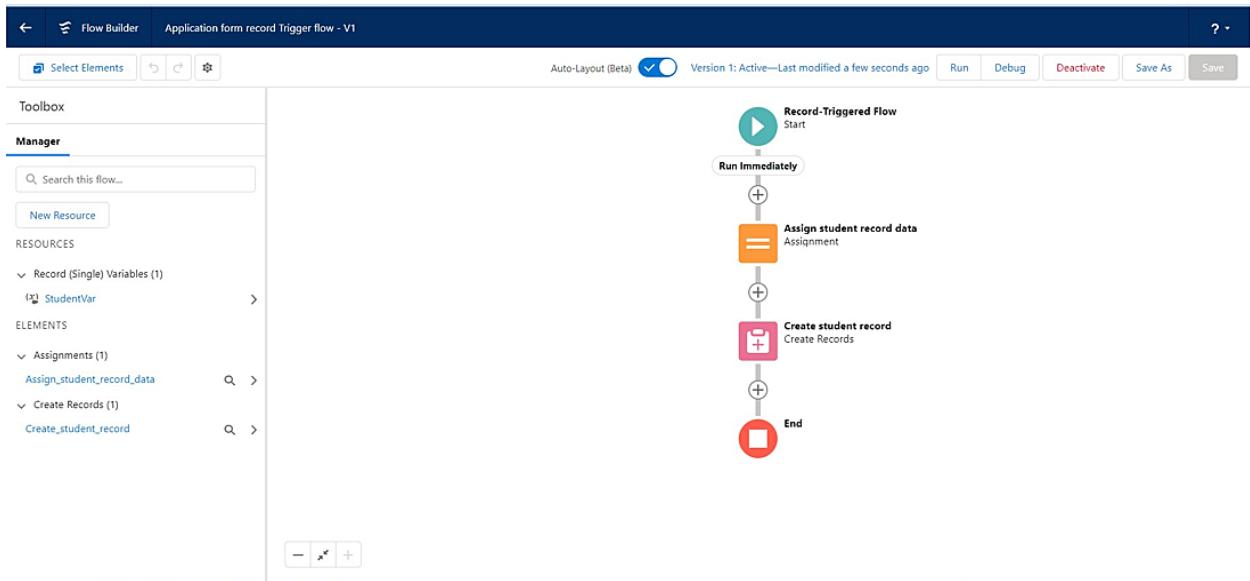
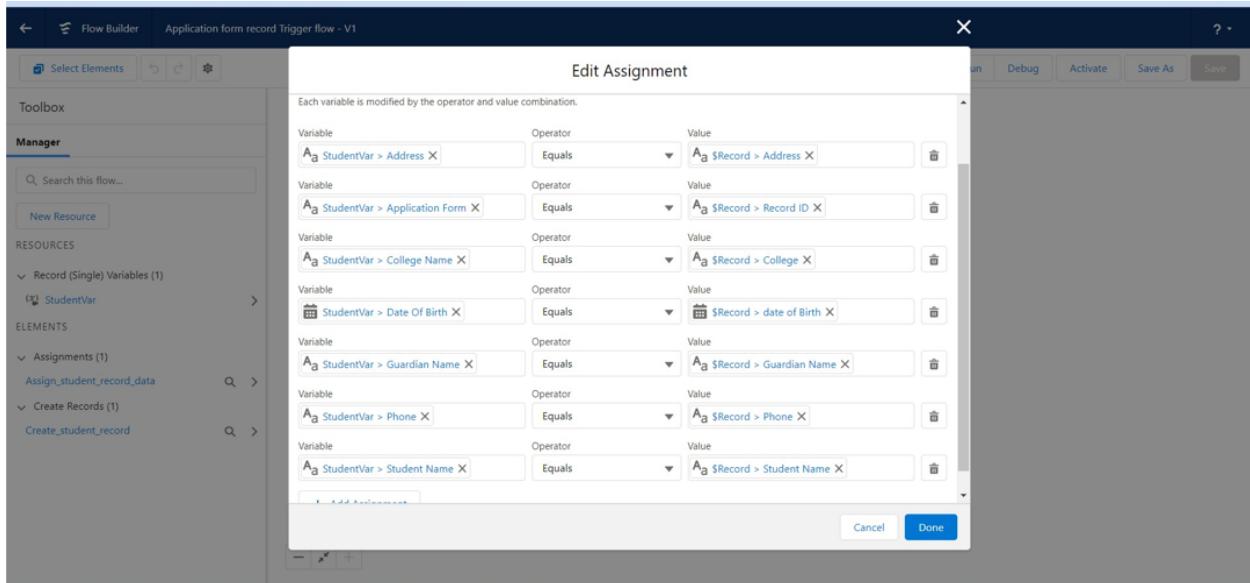
Milestone / Activities:

- Create The Student Record Using Flow

Detailed Description:

- I have created the application from record trigger flow
- In that I have created a variable named student in the resource section
- I added some assignments and then created the student record.

Upload the Screenshot the Milestone / Activities :



Day 6:

Topic: Batch Apex

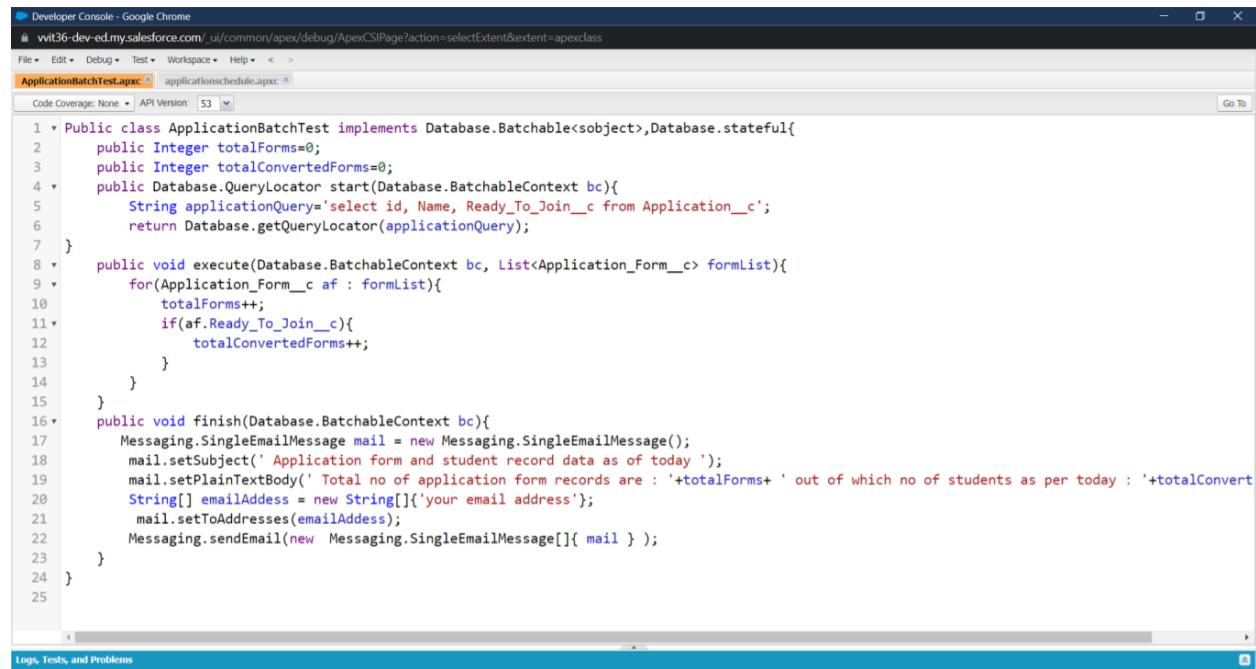
Milestone / Activities:

- Create A Batch apex For Application Form
- Create A Scheduler Class.

Detailed Description:

- First i have created the batch apex for application form in developer console
- Then i have created another class named application schedule
- Then after schedule the apex
- Setup > Apex Classes > Schedule apex
- Then I executed the code after that I received an email.

Upload the Screenshot the Milestone / Activities :



The screenshot shows the Salesforce Developer Console interface. The title bar says "Developer Console - Google Chrome" and the address bar shows "vit36-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage?action=selectExtent&extent=apexclass". The main area displays the code for the ApplicationBatchTest class:

```
1 Public class ApplicationBatchTest implements Database.Batchable<sobject>,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__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             totalForms++;
11             if(af.Ready_To_Join__c){
12                 totalConvertedForms++;
13             }
14         }
15     }
16     public void finish(Database.BatchableContext bc){
17         Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
18         mail.setSubject(' Application form and student record data as of today ');
19         mail.setPlainTextBody(' Total no of application form records are : '+totalForms+ ' out of which no of students as per today : '+totalConvert
20         String[] emailAddress = new String[]{'your email address'};
21         mail.setToAddresses(emailAddress);
22         Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail });
23     }
24 }
```

The code implements a batchable class for processing application forms. It counts the total number of forms and the number of forms where Ready_To_Join__c is true. It then sends an email to the specified address with the count of forms and students.

Developer Console - Google Chrome
 vvit36-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSPage?action=selectExtent&extent=apexclass

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

ApplicationBatchTest.apxc applicationschedule.apxc

Code Coverage: None ▾ API Version: 53 Go To

```

1 public class applicationschedule implements Schedulable{
2   public void execute(SchedulableContext sc){
3     ApplicationBatchTest abt = new ApplicationBatchTest();
4     Database.executeBatch(abt, 400); // 200 to 2000
5   }
6
7 }
8
9

```

Logs, Tests, and Problems

Setup Home Object Manager ▾

Sche

- Data
- Schema Settings
- Feature Settings
- Sales
 - Products
- Product Schedules Settings
- Objects and Fields
 - Schema Builder
- Environments
- Jobs
 - Scheduled Jobs

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	GOLUSULA POOJITHA	1/12/2022, 6:43 AM		1/14/2022, 11:00 PM	Scheduled Apex
Del	Metalytics Data Loader Job for Org : 005j000001xcjt	User_Integration	11/26/2021, 3:22 AM	1/11/2022, 9:24 AM	1/12/2022, 9:24 AM	Autonomous Data Loader Job

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

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

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

<https://resilient-hawk-6cvqgh-dev-ed.lightning.force.com/one/one.app#/setup/ScheduledJobs/home>

Day 7:

Topic: Lightning Web Components

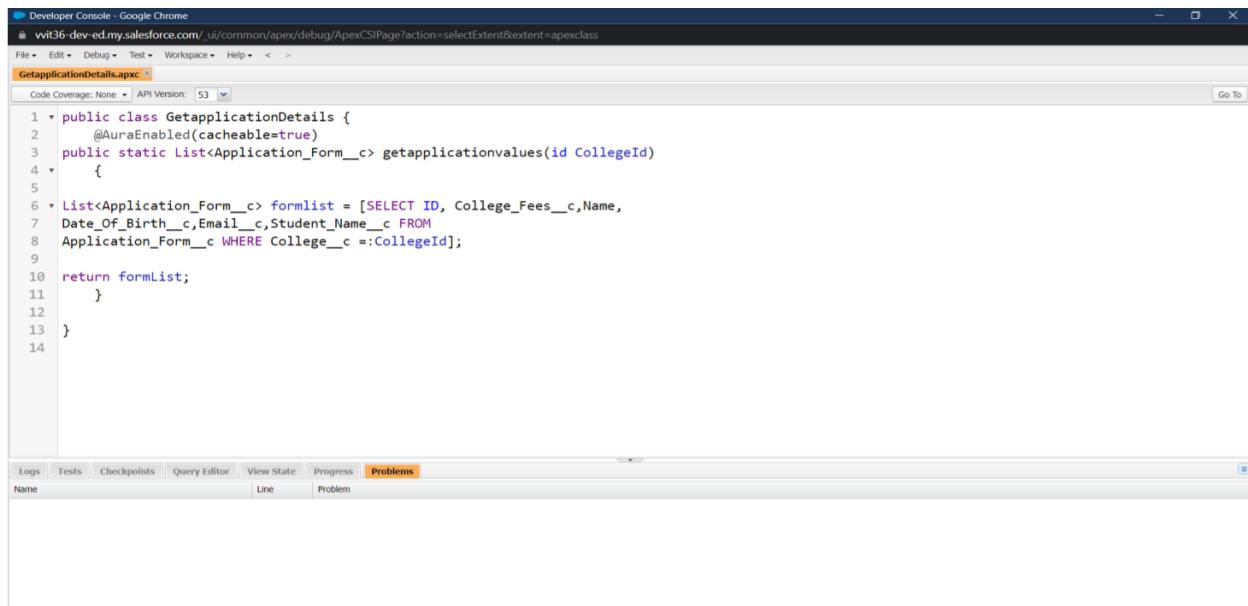
Milestone / Activities:

- Create College DataTable Component (APEX CLASS)

Detailed Description:

- First Go to setup and search Apex classes and next click on Developer console
- Then create a apex class with name GetapplicationDetails and enter the code and click on save to save the apex class

Upload the Screenshot the Milestone / Activities :



The screenshot shows the Salesforce Developer Console interface. The title bar reads "Developer Console - Google Chrome" and the URL is "vt36-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSPage?action=selectExtent&extent=apexclass". The main area displays the code for the "GetapplicationDetails.apex" class. The code is as follows:

```
1 public class GetapplicationDetails {
2     @AuraEnabled(cacheable=true)
3     public static List<Application_Form__c> getapplicationvalues(id CollegeId)
4     {
5
6         List<Application_Form__c> formlist = [SELECT ID, College_Fees__c, Name,
7             Date_of_Birth__c, Email__c, Student_Name__c FROM
8             Application_Form__c WHERE College__c =:CollegeId];
9
10    return formlist;
11 }
12
13 }
```

Below the code editor, there is a navigation bar with tabs: Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The "Problems" tab is currently selected. A table below the tabs shows one entry: "Name" with a value of "Line".

Day 8:

Topic: Lightning Web Components

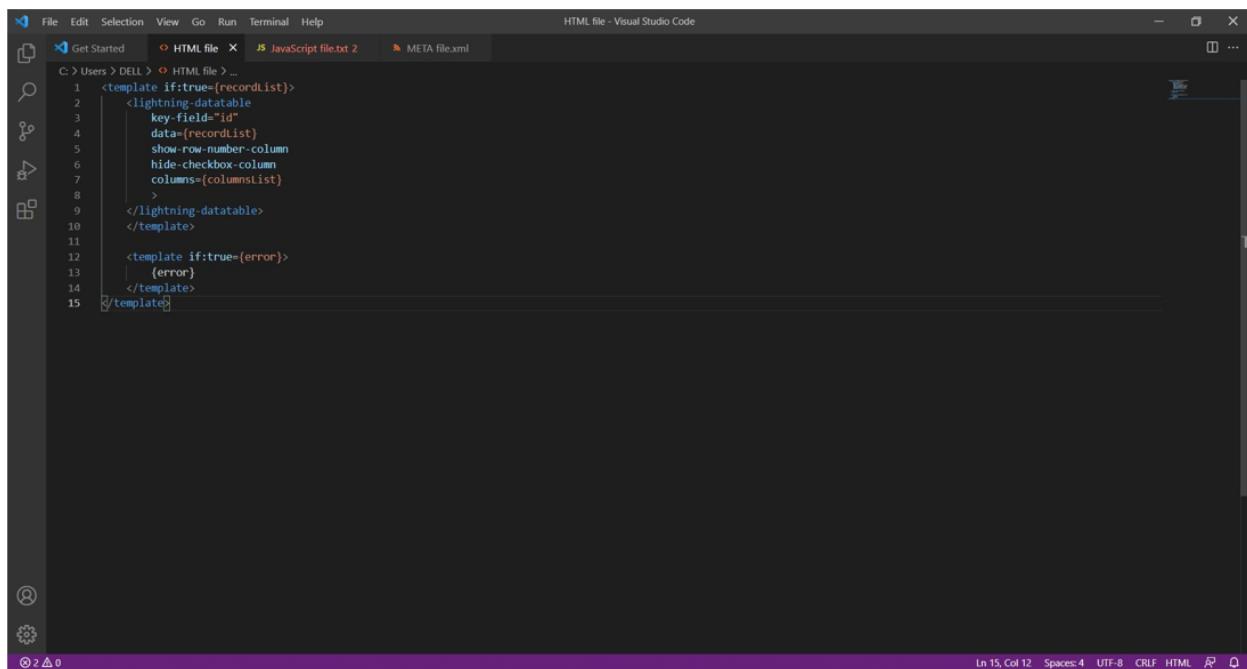
Milestone / Activities:

- Create College DataTable Component (HTML FILE)

Detailed Description:

- I downloaded and install the visual Studio Code and created the html file
- I have entered the code and saved in HTML format

Upload the Screenshot the Milestone / Activities :



The screenshot shows the Visual Studio Code interface with a dark theme. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar indicates "HTML file - Visual Studio Code". The left sidebar has icons for Get Started, HTML file (which is currently selected), JavaScript file.txt 2, and META file.xml. The main editor area contains the following LWC code:

```
C:\> Users > DELL > HTML file > ...
1  <template if:true={recordList}>
2    <lightning-datatable
3      key-field="id"
4      data={recordList}
5      show-row-number-column
6      hide-checkbox-column
7      columns={columnsList}
8    >
9  </lightning-datatable>
10 </template>
11 <template if:true={error}>
12   | (error)
13 </template>
14 </template>
```

The status bar at the bottom shows "Ln 15, Col 12" and "Spaces: 4, CRLF, HTML".

Day 9:

Topic: Lightning Web Components

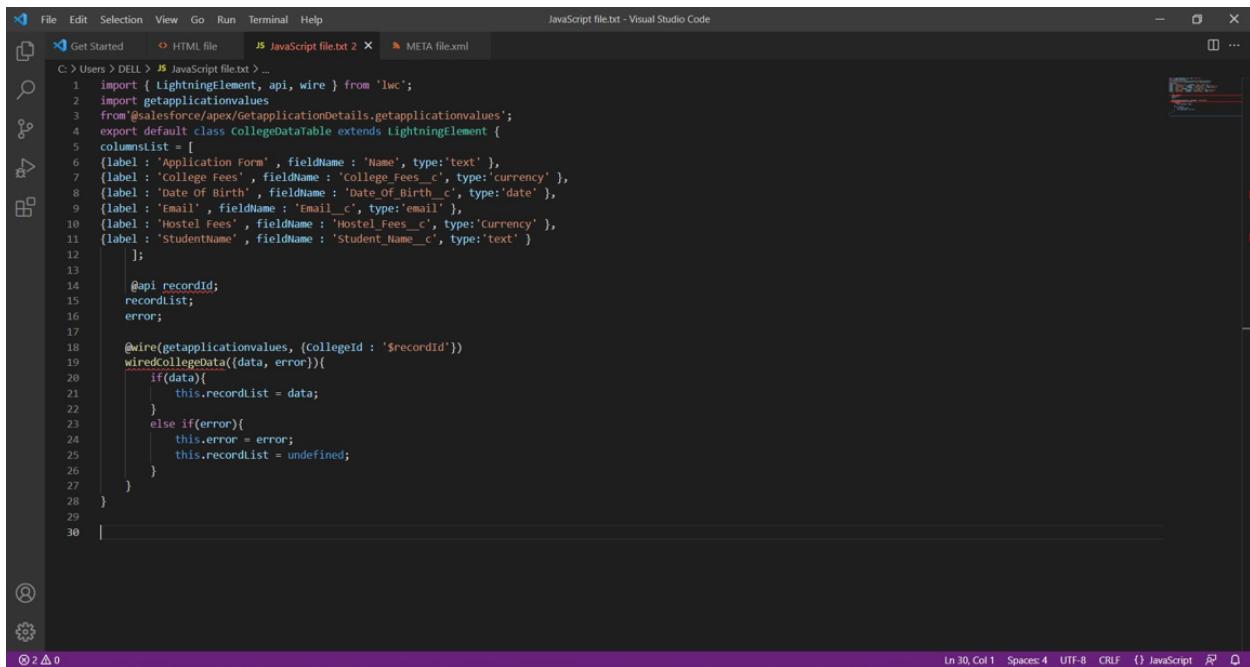
Milestone / Activities:

- Create College DataTable Component (JAVA SCRIPT FILE)

Detailed Description:

- After the creation of Html file I have created the java script file and named it as CollegeDataTable

Upload the Screenshot the Milestone / Activities :



```
C:\> Users > DELL > JS JavaScript file.txt > ...
File Edit Selection View Go Run Terminal Help JavaScript file.txt - Visual Studio Code
Get Started HTML file JS JavaScript file.txt 2 META file.xml
C:\> import { LightningElement, api, wire } from 'lwc';
2 import getapplicationvalues
3 from '@salesforce/apex/GetapplicationDetails.getapplicationvalues';
4 export default class CollegedataTable extends LightningElement {
5     columnlist = [
6         {label : 'Application Form', fieldName : 'Name', type:'text'},
7         {label : 'College Fees', fieldName : 'College_Fees__c', type:'currency'},
8         {label : 'Date Of Birth', fieldName : 'Date_of_Birth__c', type:'date'},
9         {label : 'Email', fieldName : 'Email__c', type:'email'},
10        {label : 'Hostel Fees', fieldName : 'Hostel_Fees__c', type:'Currency'},
11        {label : 'StudentName', fieldName : 'Student_Name__c', type:'text'}
12    ];
13
14    @api recordId;
15    recordlist;
16    error;
17
18    @wire(getapplicationvalues, {collegeId : '$recordId'})
19    wiredCollegeData({data, error}){
20        if(data){
21            this.recordlist = data;
22        }
23        else if(error){
24            this.error = error;
25            this.recordlist = undefined;
26        }
27    }
28 }
29
30 |
```

The screenshot shows a Visual Studio Code window with a dark theme. The title bar says "JavaScript file.txt - Visual Studio Code". The editor pane contains the provided JavaScript code for a LWC component named "CollegedataTable". The code defines a class extending "LightningElement" with a static property "columnlist" containing six columns. It includes a wire method "wiredCollegeData" that takes "data" and "error" as parameters. The "data" parameter is assigned to the instance variable "recordlist". The "error" parameter is assigned to the instance variable "error". The "recordlist" variable is initialized to undefined. The code uses standard ES6 syntax like arrow functions and template literals.

Day 10:

Topic: Lightning Web Components

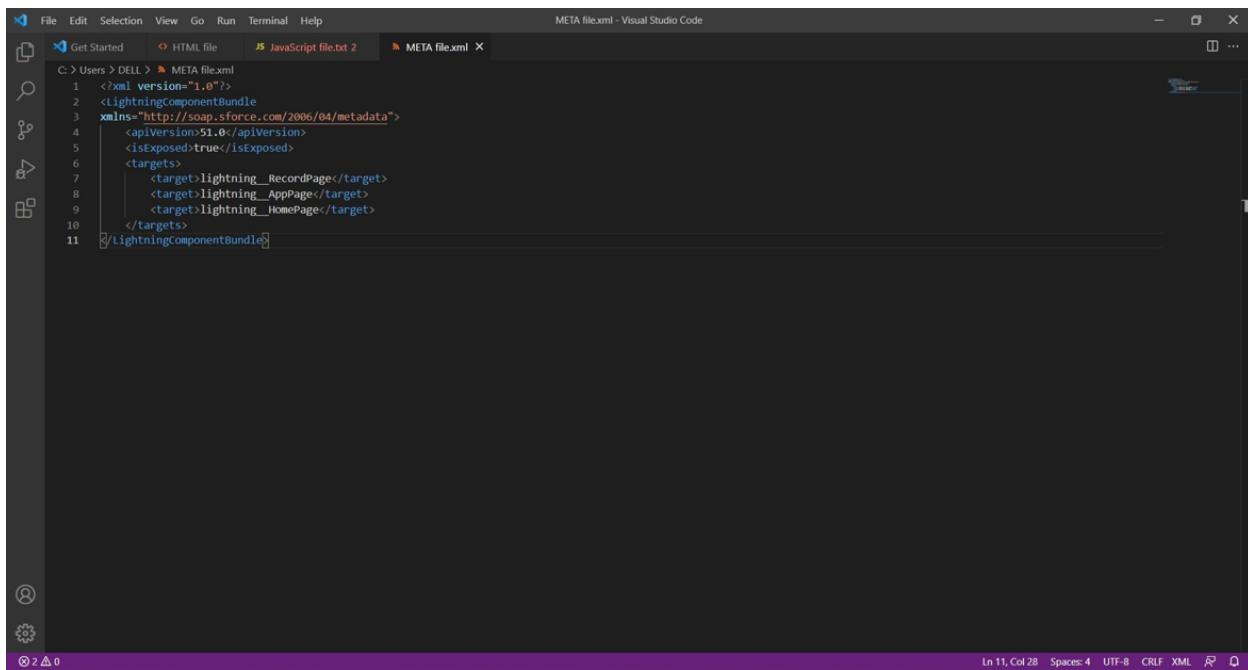
Milestone / Activities:

- Create College DataTable Component (META FILE)

Detailed Description:

- After the creation of Java Script File I have created the Meta File.

Upload the Screenshot the Milestone / Activities :



The screenshot shows a Visual Studio Code interface with the title bar "META file.xml - Visual Studio Code". The left sidebar shows a file tree with "META file.xml" selected. The main editor area contains the following XML code:

```
C:\Users\DELL> META file.xml
<?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>
```

The status bar at the bottom indicates "Ln 11, Col 28" and "Spaces: 4".