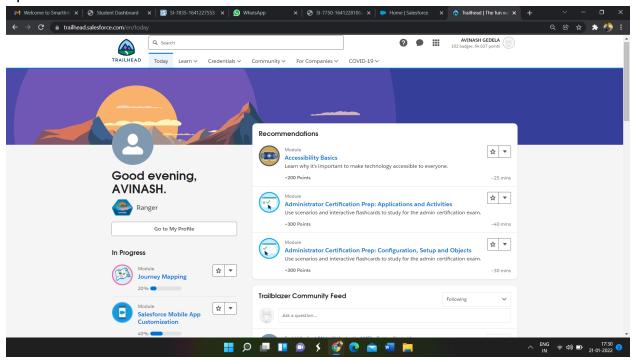
COLLEGE MANAGEMENT APPLICATION

Day1 Activities

- 1. Created my Salesforce Devolopment org account
- 2. Activated my account
- 3.Logged into my account

Upload the Screenshot of Milestone:



Day2: Activities

Topic: Setting up First App, Custom Object and Fields Creation

Milestone: Custom Object Creation and Fields Creation

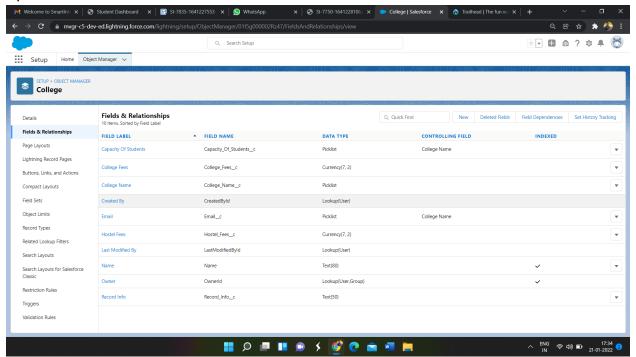
Detailed Description:

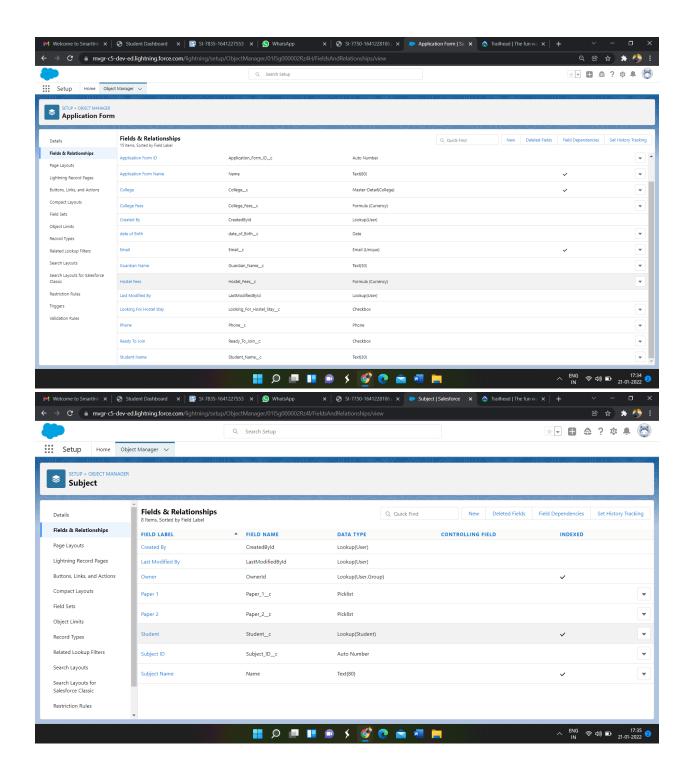
In this, Firstly Create an Application called College Management Application and then create the Objects which are required for the Application.

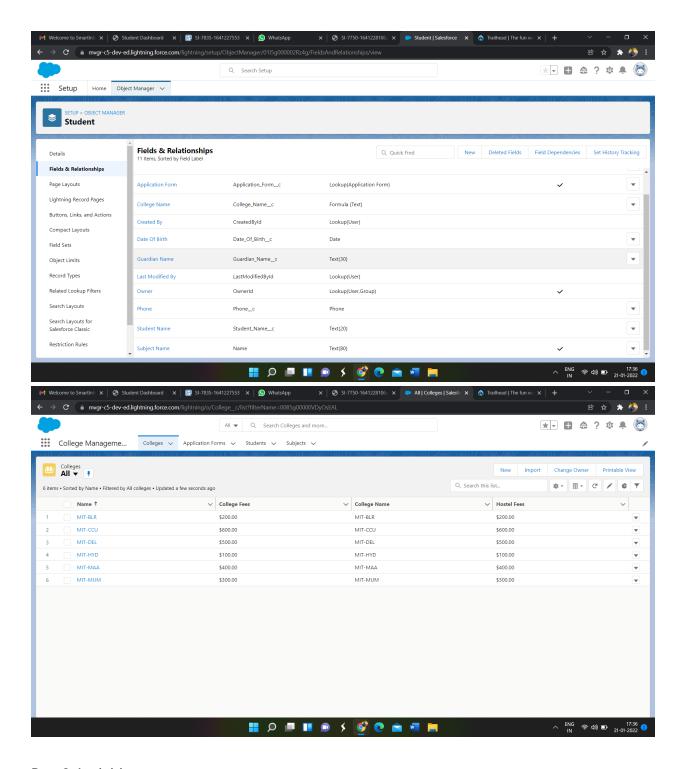
Create the Objects named

- 1. College
- 2. Application Form
- 3. Subjects
- 4. Students
- 1. Create the fields for College Object like Record Info, College Fees, Hostel Fees, College Name, EMail, Capacity of Students.
- 2. Create the fields for Application Form like Application Form ID, Address, College, College Fees, Hostel Fees, date of Birth, Email, Guardian Name, Looking For Hostel Stay, Ready To Join, Student Name.
- 3. Create the Fields for Student Object like Student Name, Address, Application Form, College Name, Date Of Birth, Guardian Name, Phone.
- 4. Create the Fields for Subject Object like Subject Id, Paper 1, Paper 2, Student.

Upload the Screenshot of Milestone:







Day 3:Activities

Topic: Adding Bussiness Logic to Application

MileStone: Creating Global Picklist Values, Field Dependencies, Validation Rules, Process Automation and Student Record using Flow.

Detailed Description: Firstly, Create the Global Picklist Values for the Application

b.) Paper 1:- Picklist Value Name:- Paper1 Values:- APEX JAVA C C++

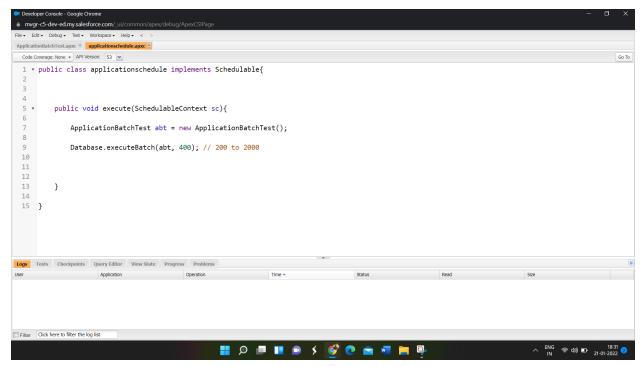
c.) Paper 2:- Picklist Value Name:- Paper2 Values:- MATHEMATICS ENGLISH STATISTICS

Now, Create the Field Dependencies.

- 1.) Create Field Dependency for College Object where Controlling Field is college Name and Dependent Field is E-Mail. Select E-Mail Ids according to Colleges.
- 2.)Create Field Dependency for College Object where Controlling Field is college Name and Dependent Field is Capacity of Students. Select values according to your wish.

Now, Create Validarion Rules.

1.) Create a validation rule on the college object such that the college name and record information



should have the same name.

2.) Create a Validation Rule on the Application Form object to stop any modification on the application form once a student record is created.

Now. Process Automation

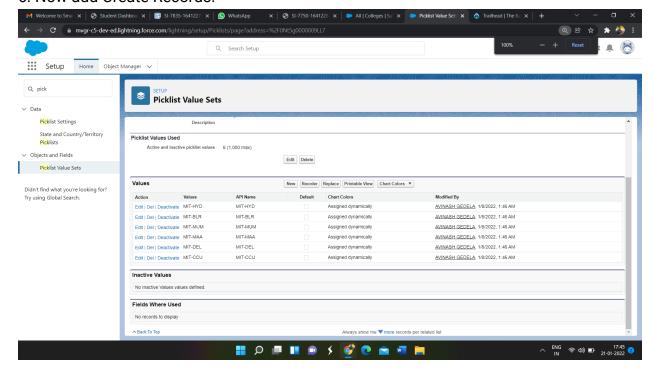
- 1.) Create an automation process such that when the "ready to join" field is checked on the application form obj we need to create the student record automatically with the info specified in the application form record.
- 2.)Go to Setup-> select "Process Builder" from quick find. Create a Process Builder on the "Application Form" object with a condition as "When a record change". And select "When a record is selected or edited"
- a.) In the diamond shape box, select the criteria which trigger the process builder to fire. In our example, it is "When Ready to Join field is checked."
- b.) Once the node is setup, click on the adjacent box called "Immediate Action". And select create a record on the student object.

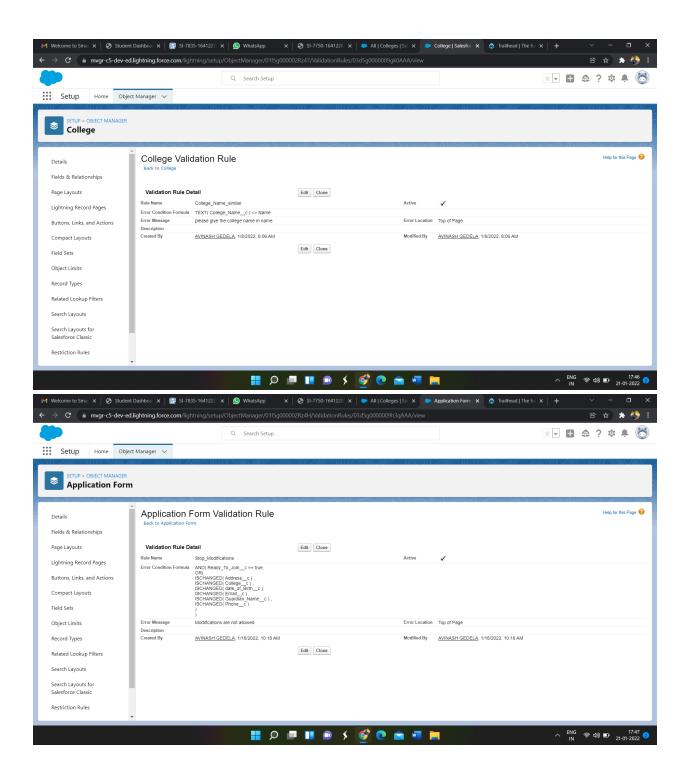
Now, Student Record Using Flow

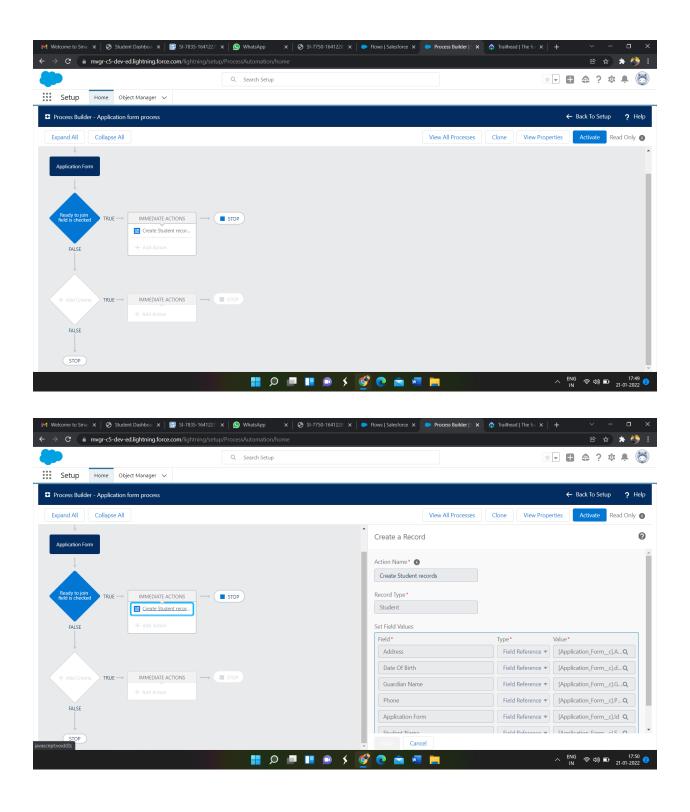
One. First deactivate the process builder which we created earlier.

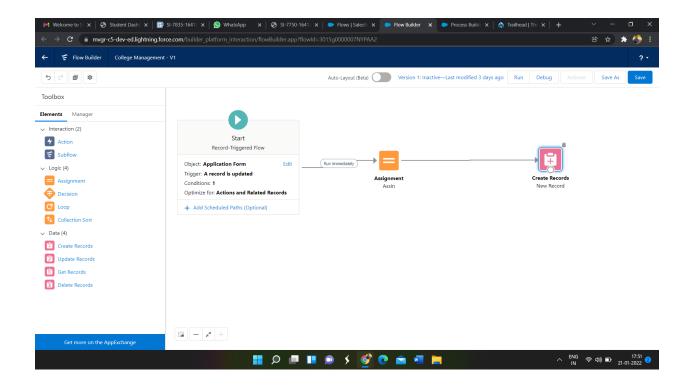
2. Now search for flos and select new flow->record riggered flow.

- 3. For object select application form, in configure trigger select when the record is updated for entry criteria select as ready to join equals to true.
- 4. Now create a variable named student in the resource section.
- 5. Now add the ssignment.
- 6. Now add Create Records.









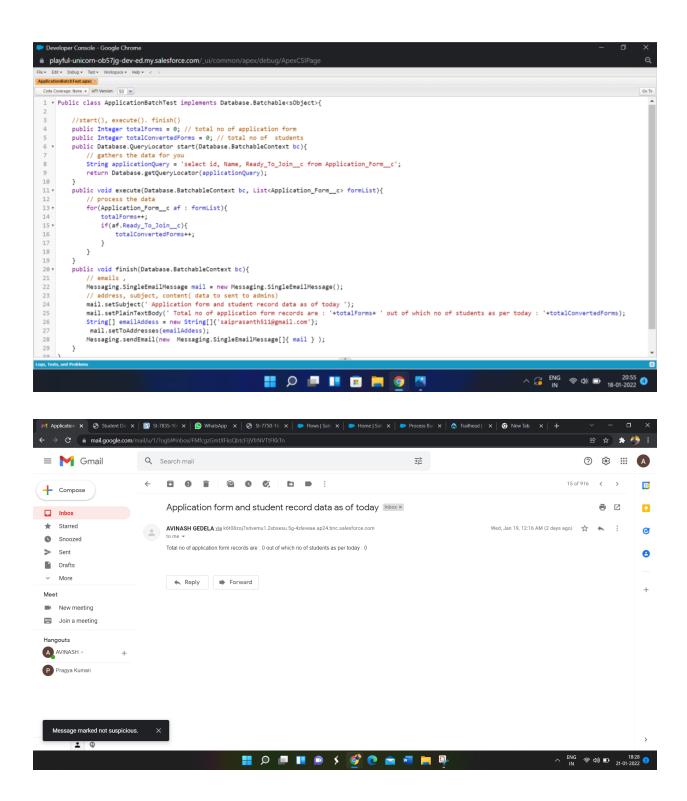
Day 4:Activities

Topic: Batch Apex Milestone: Create a Batchapex for Application Form Detailed Description:

Firstly, Create a new Apex Class in Developer Console and enter the following code: Now, change the Application Form API name to the name which we got while we have created the Application Form Object in College Management Application.

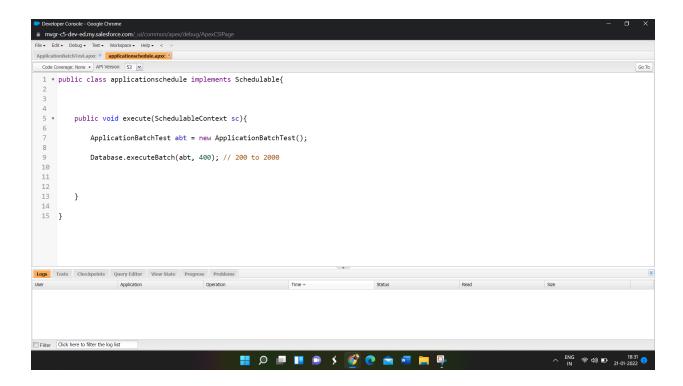
Save the File Name as ApplicationBatchTest and press Ctrl+E. Then we get a Console. In it enter the Apex Code and execute it. Now, remove "your E-Mail Address" text and put your personal Mail ID.

Press Execute. Then we get a Mail regarding the number of records which we have created in Application Form Object till date.



Milestone: Create a Scheduler Class

Detiled Description: From the Developer Console create a new Apex Class:

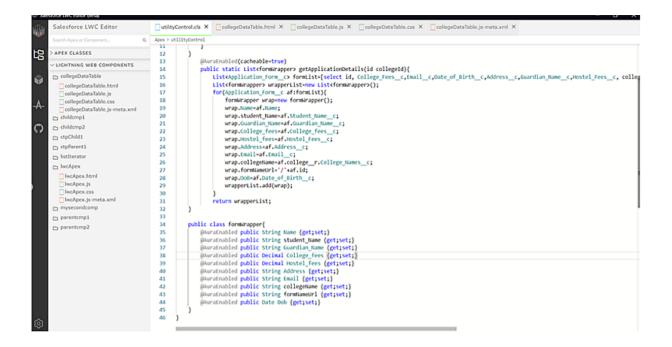


Day5:Activities

Topic: Lightening web components Here 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.

Task1: Create college data table component(APEX CLASS) Create an Apex Class With The Required Functionality

```
public class GetapplicationDetails
{
    @AuraEnabled(cache able=true)
public static List oversimplification(id CollegeId)
{
    List formlist = [SELECT ID, College_Fees__c,Name, Date_Of_Birth__c,Email__c,Hostel_Fees__c,Student_Name__c FROM ApplicationForm__c WHERE College__c =:CollegeId];
    return formList;
}
```



Topic: Create college data table component(HTML CLASS)

```
HTML:
```

<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>



```
Topic: Create college data table component(SCRIPT CLASS)
After the creation of the Html file create the following is file
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;
                                                              import { LightningElement, upi, wire } from 'lwc';
import getForm from '@salesforce/apex/utilitycontrol.getApplicationDetails';
export default class CollegeDataTable extends LightningElement {
  병
           LIGHTNING WEB COMPONENTS
           collegeDataTable
                                                                       collegeDataTable.html
          collegeDataTable.js
collegeDataTable.css
collegeDataTable.js-meta.xml
childcmp1
          childomp2
          □ ctpCh#d1
          ctpParent1
          listIterator
                                                                  recordId;
                                                                   recordList;
error;
          | IncApex.html
| IncApex.js
| IncApex.css
| IncApex.js-meta.xml
| mysecondcomp
                                                                   @wire(getForm, {collegeId:'$recordId'})
                                                                  wiredAccounts({data, error}))
if(data)(
this.recordList=data;
          in parentemp1
                                                                        else if(error){
                                                                             this.recordList=undefined;
                                                           .dummy{
color: | | | black;
           collegeDataTable.html
collegeDataTable.js
collegeDataTable.css
collegeDataTable.js-meta.xml
        | wcApex.html | wcApex.js | wcApex.cs | wcApex.cs | wcApex.cs | wcApex.s-meta.xml | mysecondcomp | parentemp1
```

Topic: Create college data table component(META CLASS)

Change the Meta File as follows:

- <?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>



CONCLUSION:

In this project we have learned the various stepd of a college management application development with the help of milestones like creating object creating fields for the objects, defining the dependencies between the fields, creating validation rules, Custom object creation, adding business logic to the application, creating apex class the lightening wed components.