Day 1: Create Your Salesforce Developer Org To Get Started **Topic: Creating Developer Account** Milestone / Activities: Created Detailed Description: Firstly for Creating a Developer org in salesforce I have followed these steps Go to developers.salesforce.com/ Click on sign up. On the sign up form, enter the following details: First name & Last name Email Role: Developer Company: College Name County: India Postal Code: pin code Username: should be a combination of your name and company This need not be an actual email id, you can give anything in the format: username@organization.com

**Topic: Account Activation** 

Milestone/Activities: Activated

Detailed Description: For this Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins, as allocating a developer org will take time

Topic: Login To Your Salesforce Account

Milestone/Activities: Logined

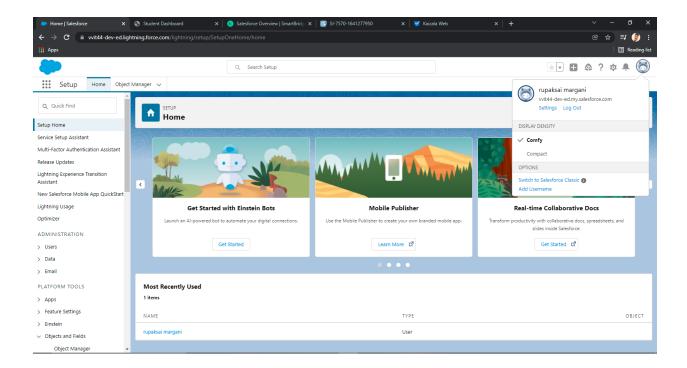
Detailed Description: To do this

1.Go to salesforce.com and click on login.

2.Enter the username and password that you just created.

3. After login this is the home page which you will see.

Upload the Screenshot the Milestone / Activities :



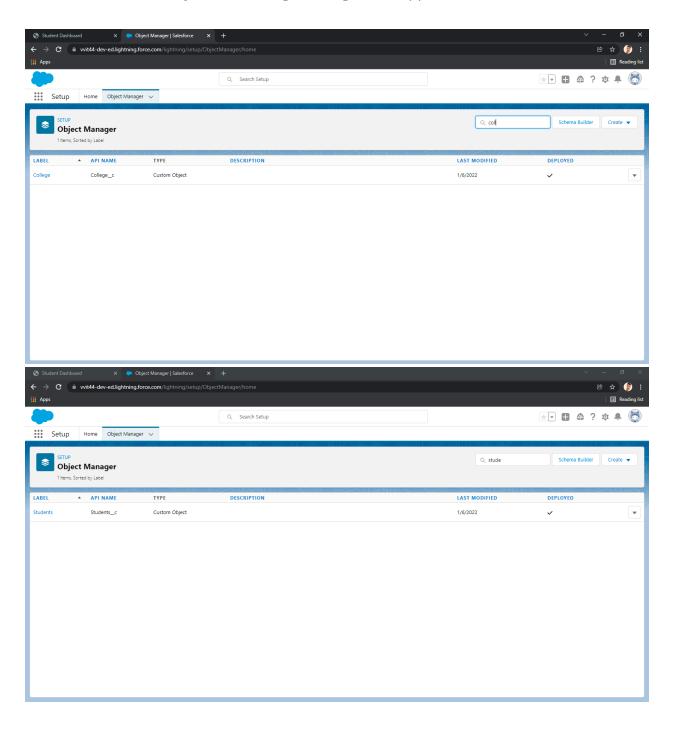
# Day-2: Custom Object Creation

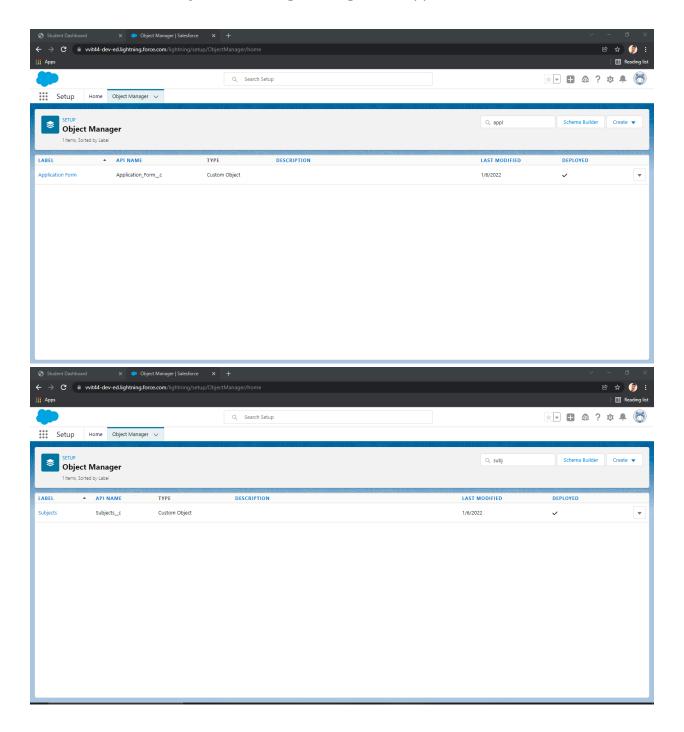
Topic: Create The Custom Objects For The Application

Milestone/Activites: Created

Description: The Following Custom Objects are Created

- 1. College
- 2. Application Form.
- 3. Students.
- 4. Subjects.





Topic: Create Fields On College Object

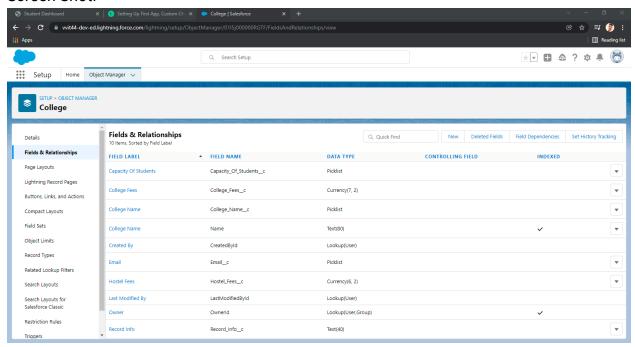
Milestone/Activites: Created

Description: The Following Fields are Created On College Object

Field Name	Data Type	Required	Values
------------	-----------	----------	--------

Record Info	Text		
College Fees	Currency(7,2)	Yes	
Hostel Fees	Currency(6,2)	Yes	
College Name	Picklist(Refer Business Logic In Milestones)	Yes	
Email	Picklist		blr@mit.co.in hyd@mit.co.in mum@mit.co.in maa@mit.co.in ccu@mit.co.in del@mit.co.in
Capacity Of Students	Picklist		500-1000, 1000-2500, 2500- 6000, 6000-10000

#### Screen Shot:



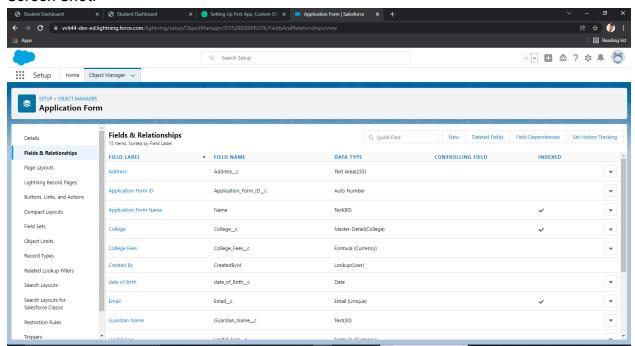
Topic: Create Fields On Application Form Object

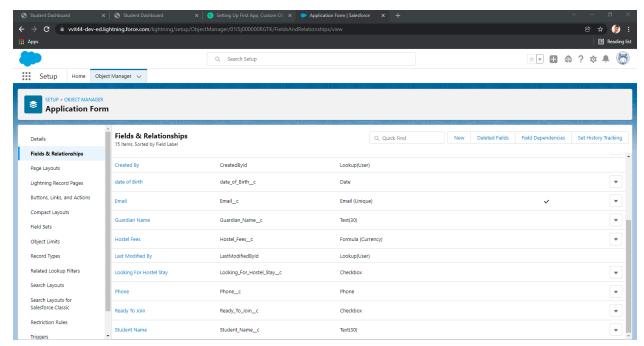
Milestone/Activites: Created

Description: The Following Fileds are Created On Application Form Object

Field Name	Data Type	Required	Values
------------	-----------	----------	--------

Application Form ID	Autonumber		F-{000000} Starting Number=1
Address	Text(255)	Yes	
College	Master-Detail(College)	Yes	
College Fees	Formula(Currency)		
Hostel Fees	Formula(Currency)		
date of Birth	Date	Yes	
Email	Email(Unique)	Yes	
Guardian Name	Text(30)	Yes	
Looking For Hostel Stay	Checkbox(default=Uncheck)		
Ready To Join	Checkbox(default=Uncheck)		
Student Name	Text(30)	Yes	
Phone	Phone	Yes	



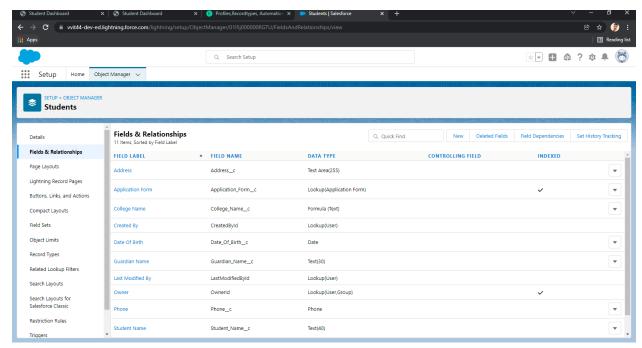


Topic: Create Fields On Student Object

Milestone/Activites: Created

Description: The Following Fields are Created On Student Object

Field Name	Data Type	Required	Values
Student Name	Text		
Address	Text(255)	Yes	
Application	Lookup(Application		
Form	Form)		
College Name	Formula(Text)		
Date Of Birth	Date	Yes	
Guardian Name	Text(30)	Yes	
Phone	Phone	Yes	

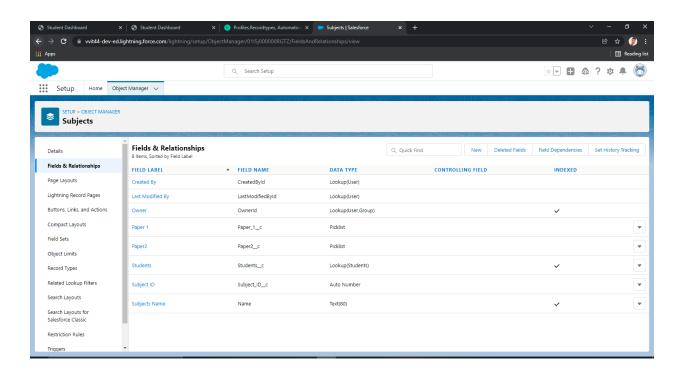


Topic: Create Fields On Subject Object

Milestone/Activities: Created

# Description:

Field	Data Type	Requir	Values
Name		ed	
Subject ID	AutoNumber		S-{000000}
			Starting
			Number=1
Paper 1	Picklist(Refer Business Logic Milestone)		
Paper2	Picklist(Refer Business logic Milestone)		
Student	Lookup(Student)		



Day-3: Adding Business Logic To Application

Topic: Creating Global Picklist Value Sets

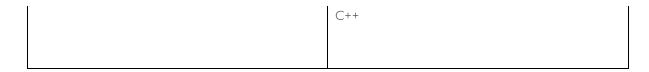
Milestone/Activites: Created

**Description:** Created the following global picklist value sets for the application. a)College

Picklist Value	Values
Name	
Colllege	MIT-HYD
	MIT-BLR
	MIT-MUM
	MIT-MAA
	MIT-DEL
	MIT-CCU

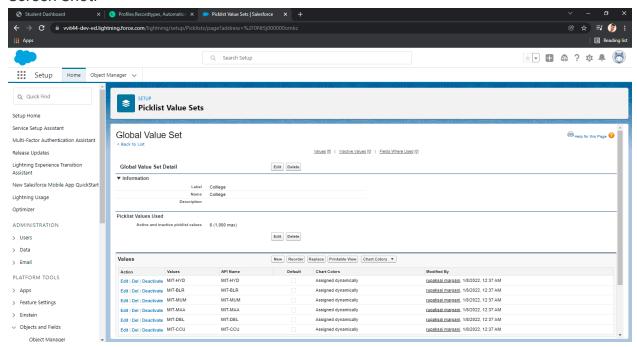
#### b)Paper1

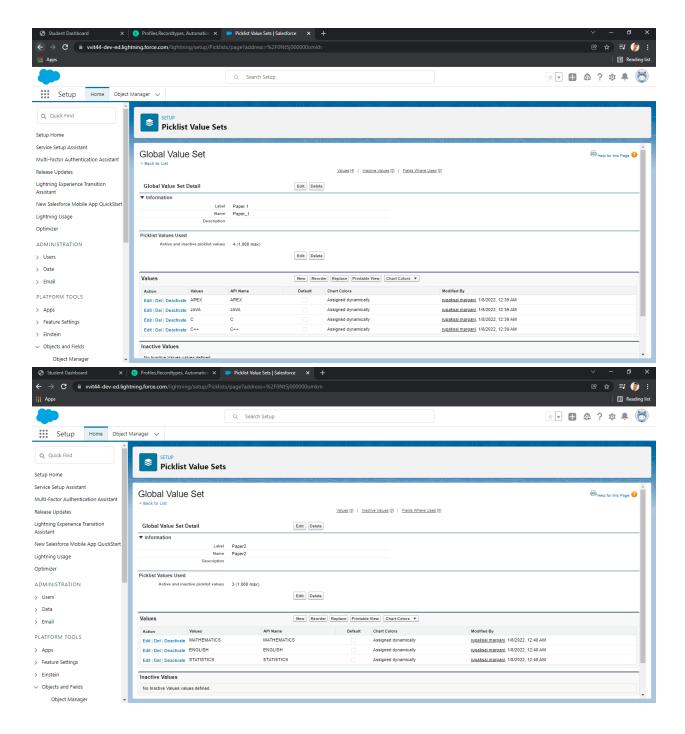
Picklist Value Name	Values
Paper 1	APEX
	JAVA
	С



#### c)Paper2

Picklist Value Name	Values
Paper2	MATHEMATICS
	ENGLISH
	STATISTICS



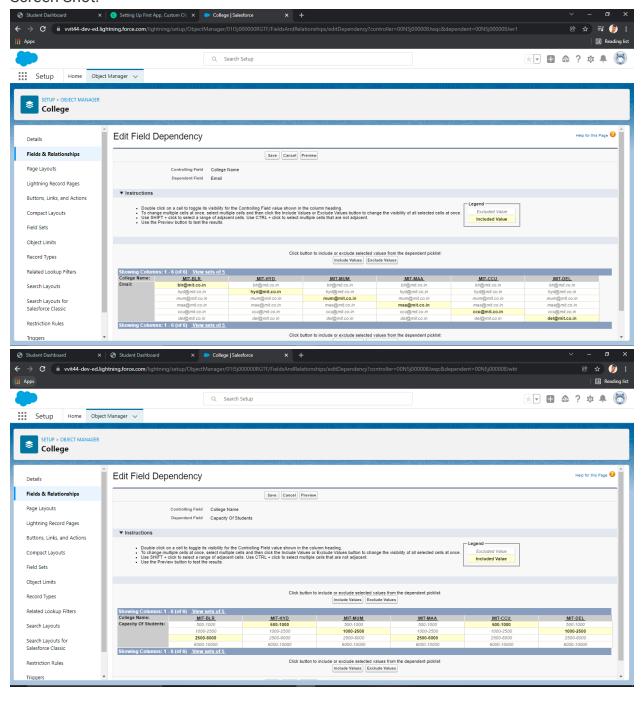


Topic: Creating Field Dependencies

Milestone/Activites: Created

Description: 1. Created field dependency between college Name and Email, where the controlling field is college Name and dependent field is Email. Selected the email ids according to the college names.

2. Created field dependency between college Name and capacity of students, where the controlling field is college Name and dependent field is Capacity of Students. Selected the values according to my wish.



Topic: Creating Validation Rules

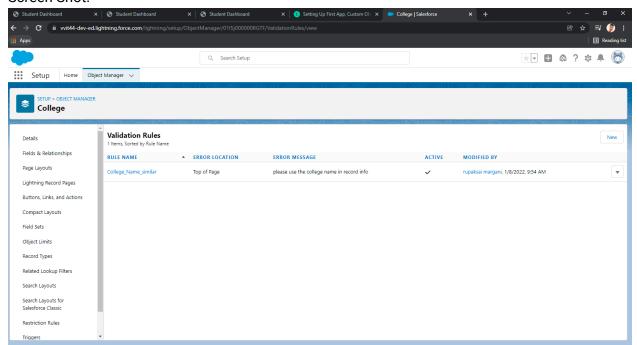
Milestone/Activites: Created

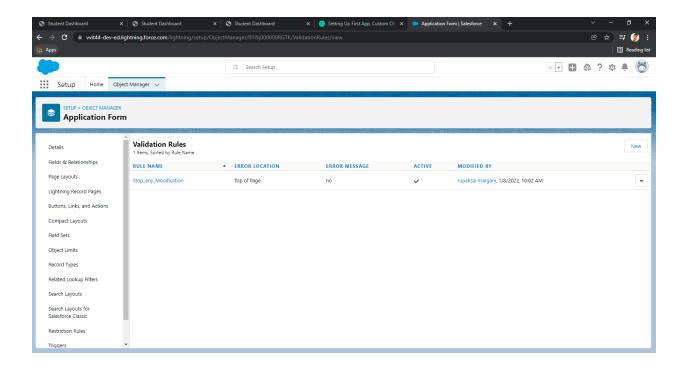
Description: 1. Created a validation rule on the college object such that the college name and record info should have the same name.

TEXT(College\_Name\_\_c) <> Name.

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

```
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)
)
)
```



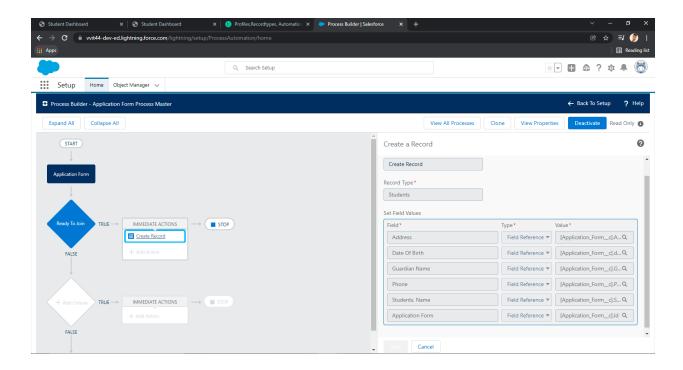


**Topic: Process Automation** 

Milestone/Activites: Created

**Description:** 1. 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.

- 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 created or edited".
- a. In the diamond shape box(called nodes), 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.

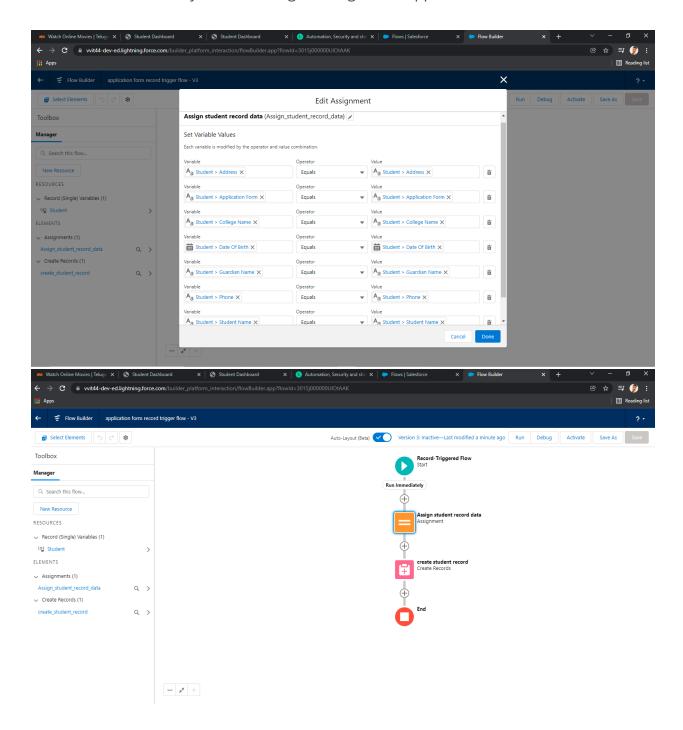


Topic: Create The Student Record Using Flow

Milestone/Activites: Created

Description: 1. First deactivate the process builder which we created earlier.

- 2. Now search for flows and select new flow ->record triggered 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 assignment as follows



Day-4: Batch Apex

Topic: Create A Batchapex For Application Form

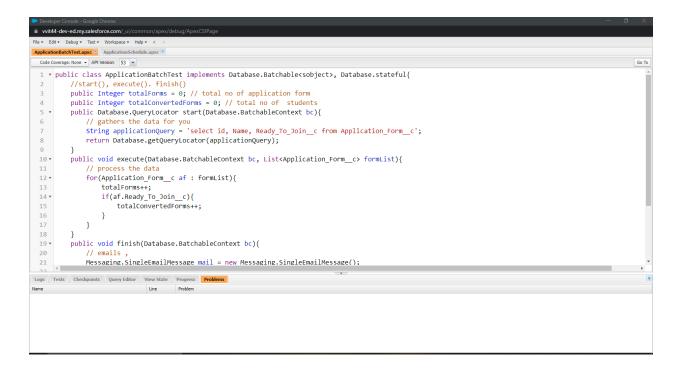
Milestone/Activites: Created

Description: 1. From the developer console created a new apex class and entered the following

code.

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 ApplicationForm__c';
    return Database.getQueryLocator(applicationQuery);
  public void execute(Database.BatchableContext bc, List<ApplicationForm_c> formList){
    // process the data
    for(ApplicationForm__c af : formList){
      totalForms++;
      if(af.Ready_To_Join__c){
        totalConvertedForms++;
      }
    }
  }
  public void finish(Database.BatchableContext bc){
    // emails ,
    Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
    // address, subject, content( data to sent to admins)
    mail.setSubject(' Application form and student record data as of today ');
    mail.setPlainTextBody(' Total no of application form records are: '+totalForms+' out of
which no of students as per today: '+totalConvertedForms);
    String[] emailAddess = new String[]{'your email address'};
     mail.setToAddresses(emailAddess);
    Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail } );
  }
}
```



Topic: Create A Schedular Class

Milestone/Activities: Created

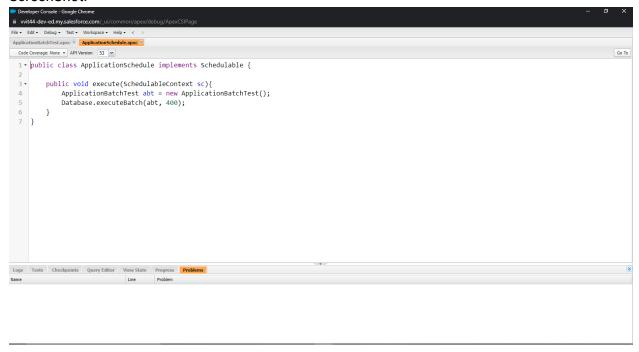
Description: 1. From the developer console created a new apex class and entered the following code.

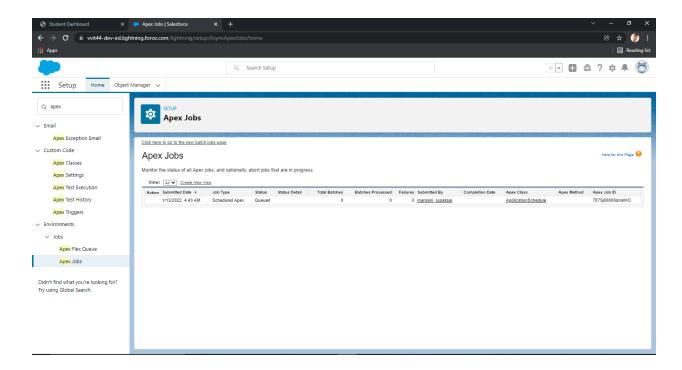
public class applicationschedule implements Schedulable{

```
public void execute(SchedulableContext sc){
   ApplicationBatchTest abt = new ApplicationBatchTest();
   Database.executeBatch(abt, 400); // 200 to 2000
```

```
}
```

From setup searched for apex class and clicked on schedule jobs and filled the details as per requirements.





#### **Day-5: LIGHTNING WEB COMPONENTS**

Topic: Create College DataTable Component( APEX CLASS)

Milestone/Activites: Created

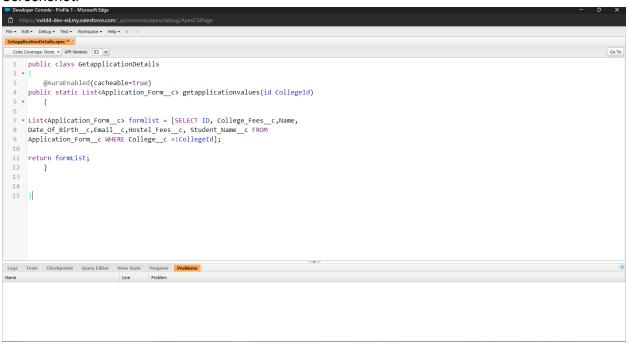
Description: Here we are going to create the college data table, for this we need to create an apex class, from which we are going to retrieve the data and Html, javascript files for UI.

Created an Apex Class With The Required Functionality

```
public class GetapplicationDetails
{
    @AuraEnabled(cacheable=true)
public static List<ApplicationForm_c> getapplicationvalues(id Collegeld)
    {
    List<ApplicationForm_c> 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 =:Collegeld];
return formList;
```

```
}
```

#### Screenshot:



Topic: Create College DataTable Component (HTML FILE)

Milestone/Activities: Created

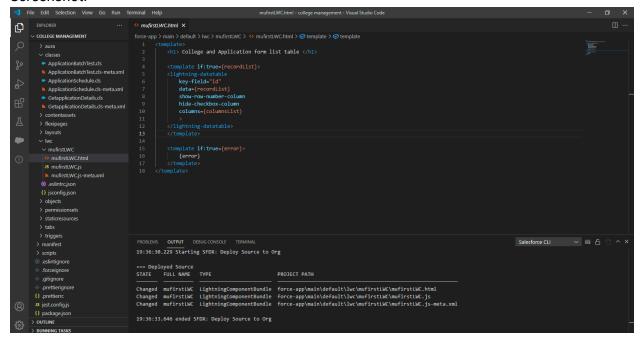
Description: Created the component with the following files.

HTML:

```
<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}
```

#### Screenshot:



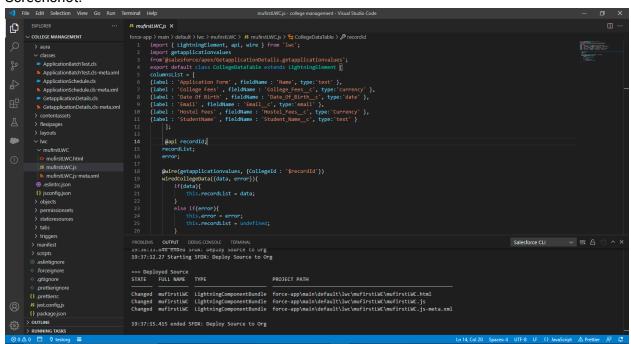
Topic: Create College DataTable Component(JAVA SCRIPT FILE)

Milestone/Activites: Created

Description: After the creation of the Html file created the following js file

```
{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;
    }
```

#### Screenshot:



Topic: Create College DataTable Component(META FILE)

Milestone/Activities: Created

Description: Changed the Meta File as follows:

#### Screenshot:

