College Management Application

Day 1 :

Topic :Creating Salesforce Developer Org To Get Started

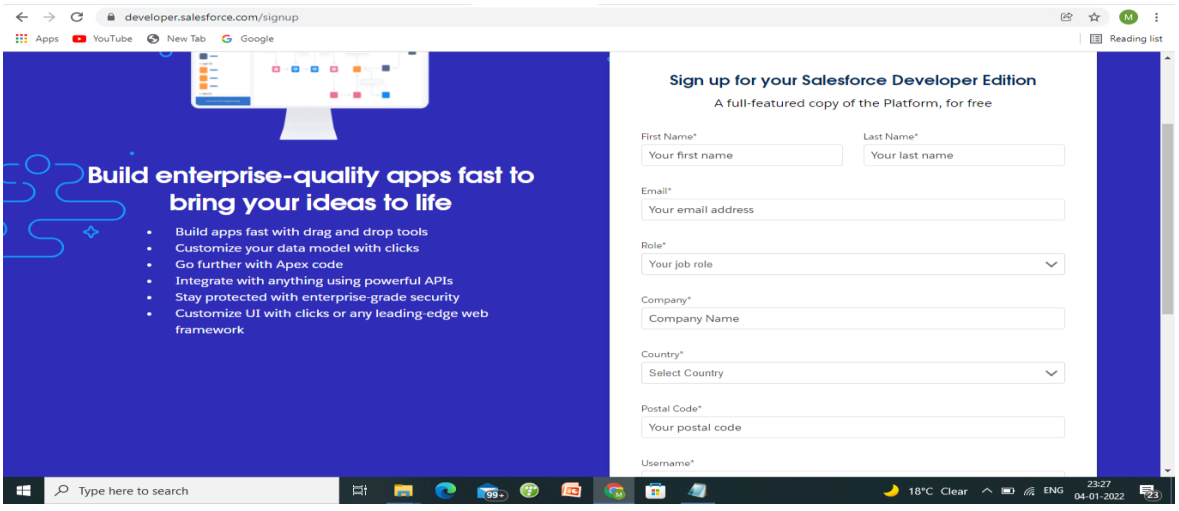
Milestone/Activity :Created, Activated, logged in.

Detailed Description :Creating a developer org in salesforce.

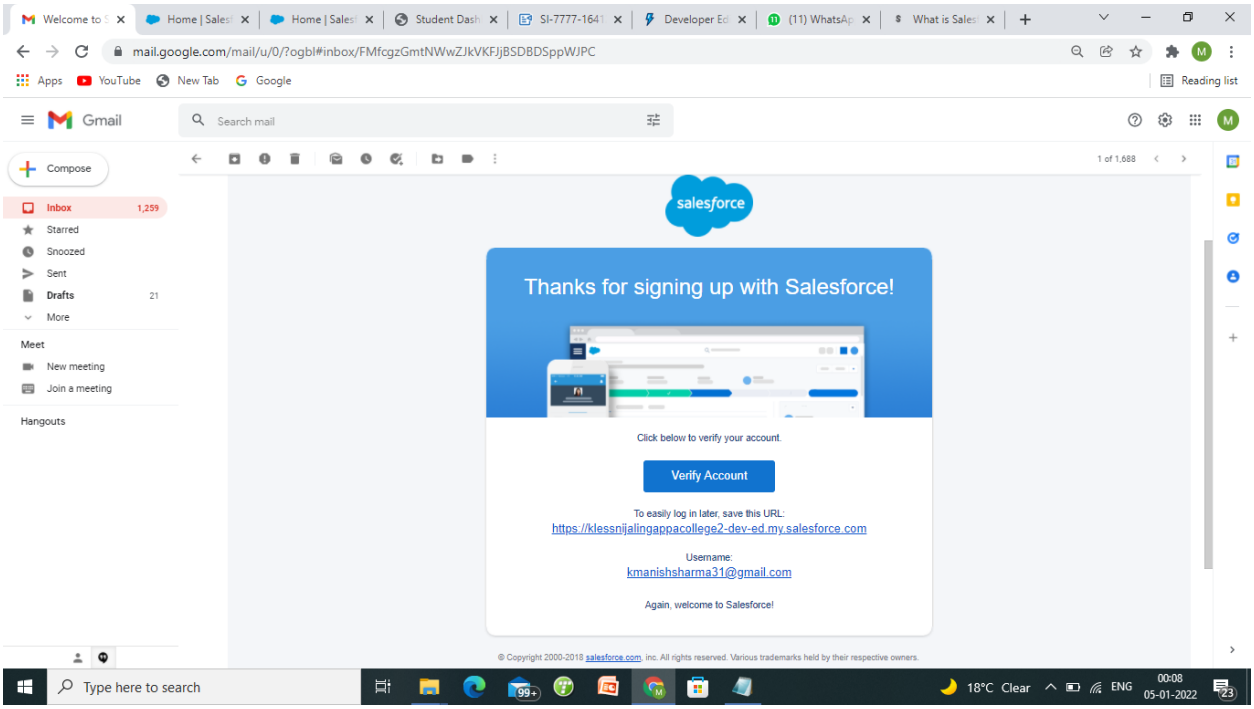
1. Go to developers.salesforce.com/
2. Click on sign up.
3. On the sign up form, enter the following details :
    1. First name & Last name
    2. Email
    3. Role : Developer
    4. Company : College Name
    5. County : India
    6. Postal Code : pin code
    7. Username : should be a combination of your name and company
       This need not be an actual email id, you can give anything in the format :username@organization.com

Screenshots :

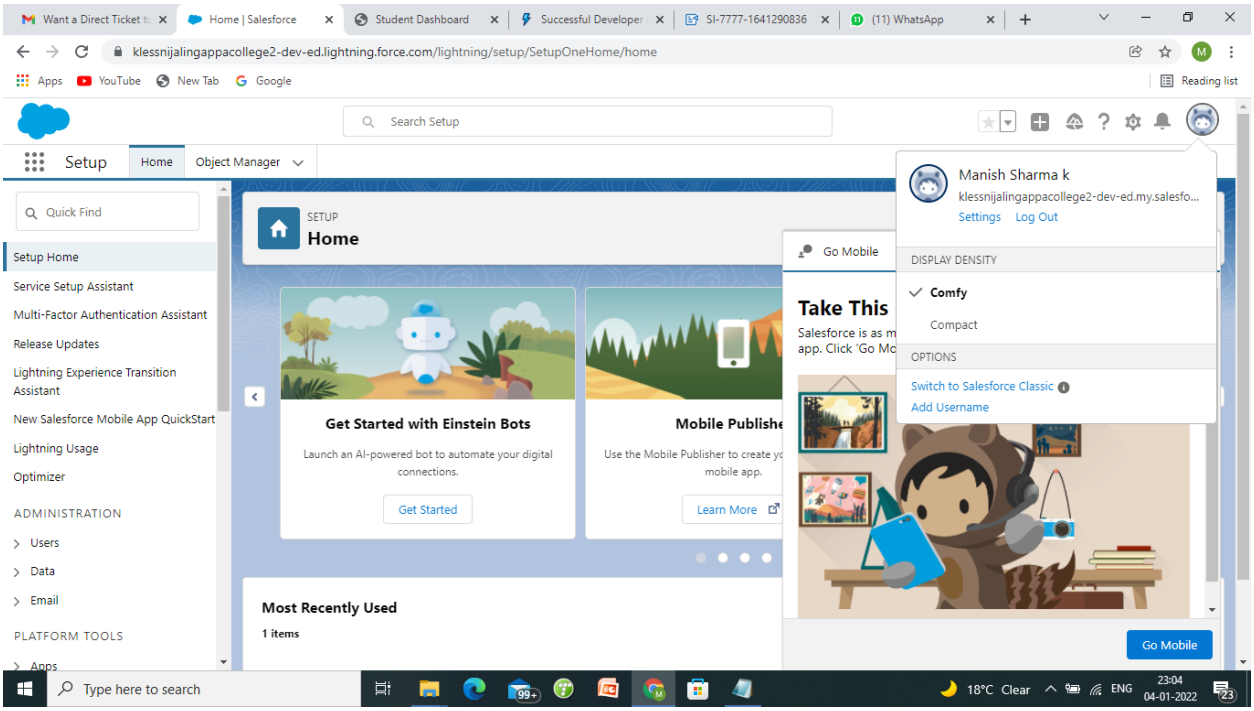
Creating Developer Account



Account Activation



Login To Your Salesforce Account



Day 2 :

Topic :Custom Object Creation

Milestone/Activity : Created The Custom Objects For The Application

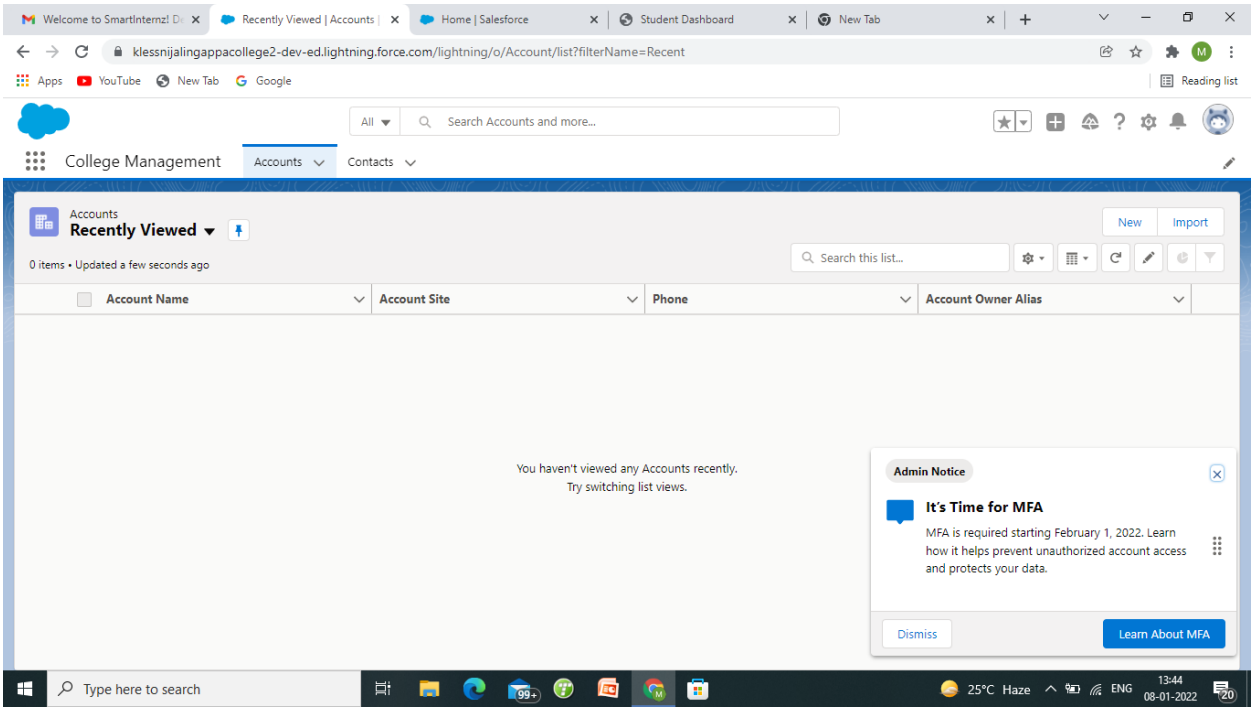
Created Fields On College Object

Created Fields On Application Form Object

Created Fields On Student Object

Detailed Description:

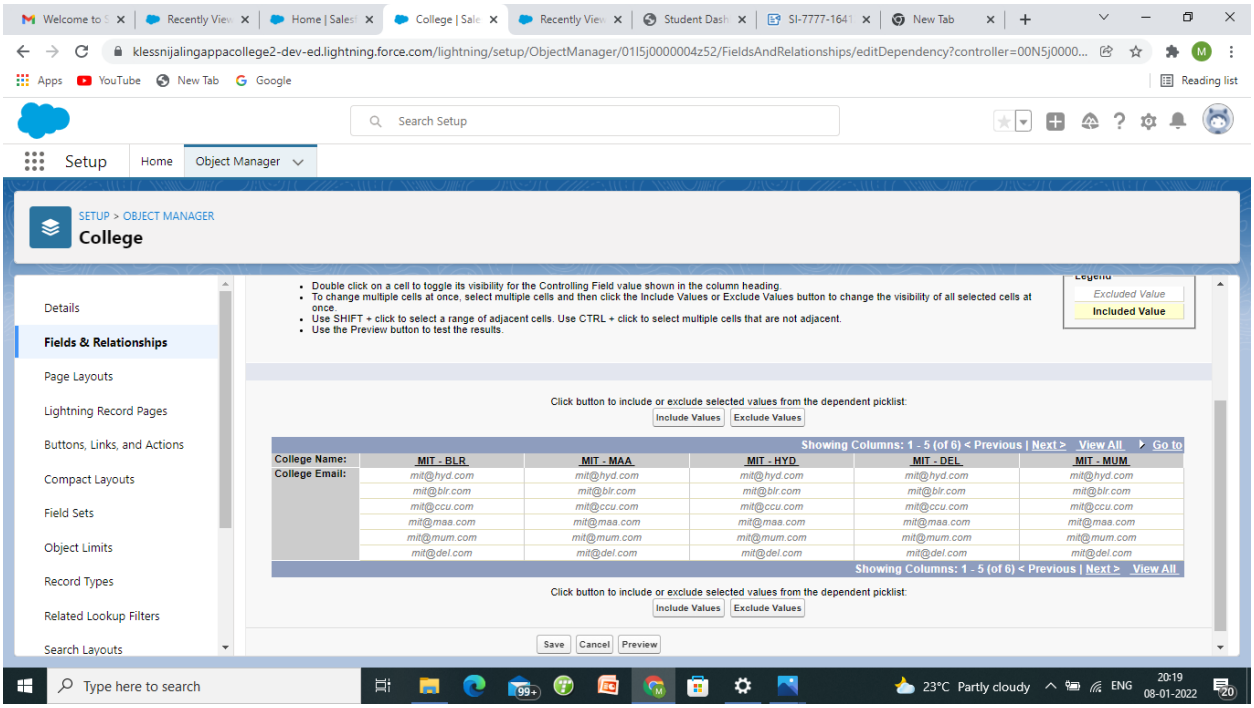
Mentioned an application name as College Management



.Created picklist value set for college Email:

Email	Pickist		mit@blr.com mit@hyd.com mit@mum.com mit@maa.com mit@ccu.com mit@del.com

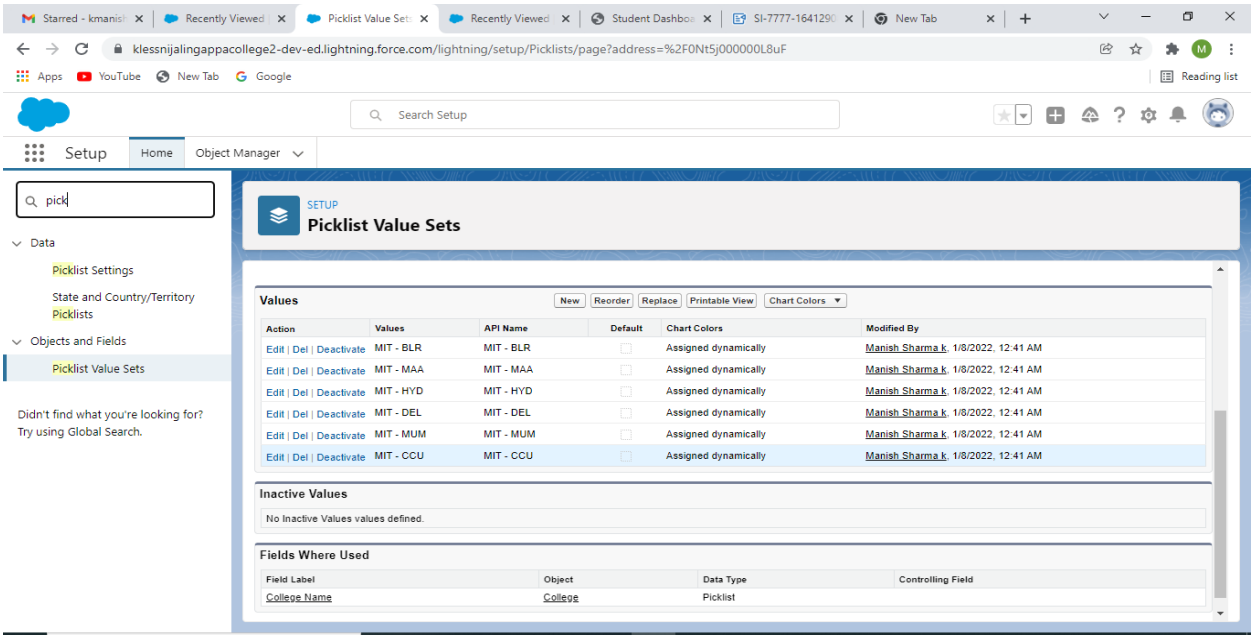
Screenshot :



. **Created the following global picklist value sets for the application.**

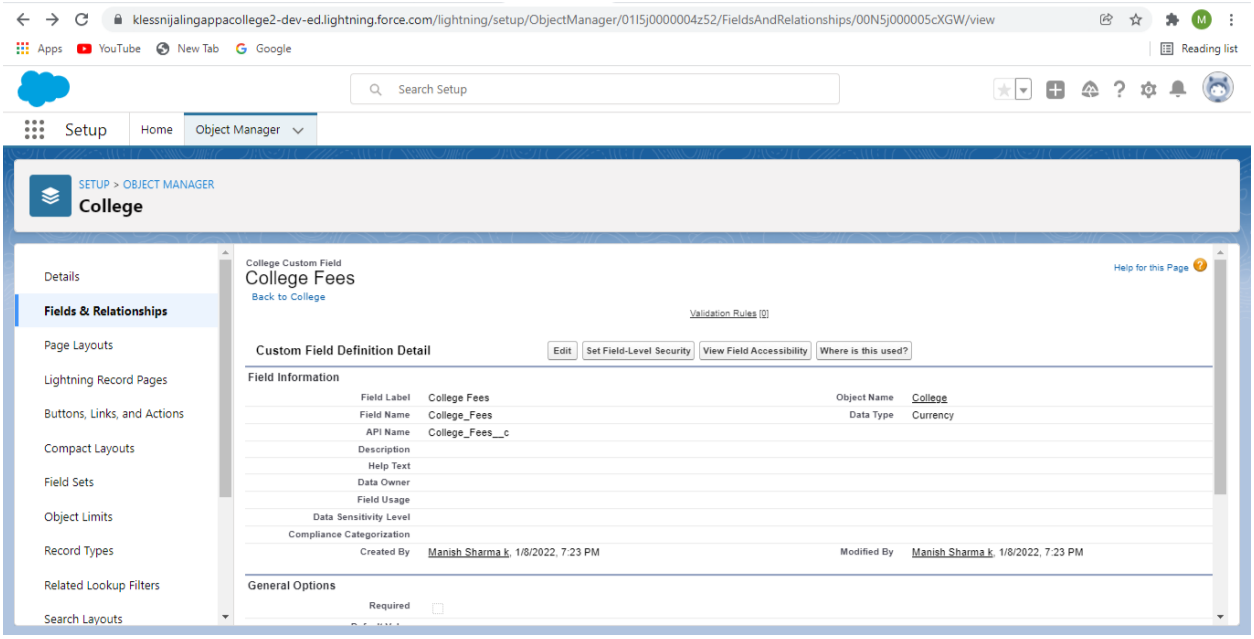
Picklist Value Name	Values
Colllege	MIT-HYD MIT-BLR MIT-MUM MIT-MAA MIT-DEL MIT-CCU

Screenshot :



.Created college fees Fields On College Object

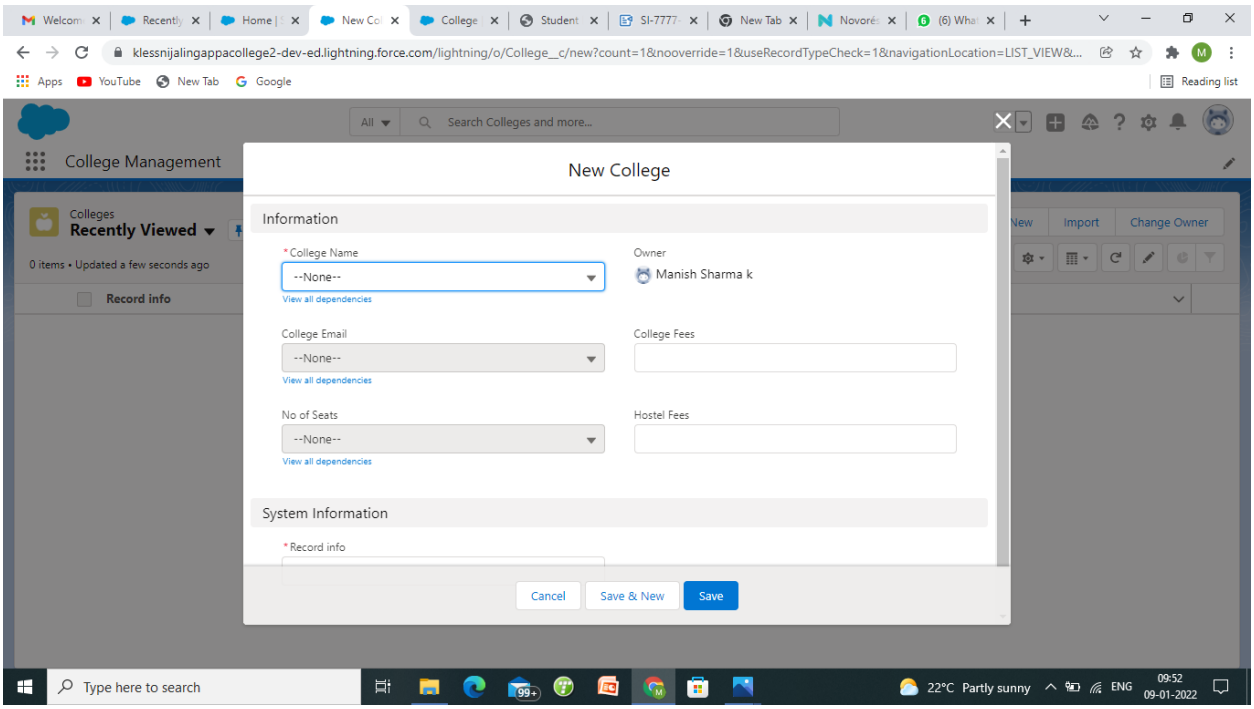
Field name	Datatypes
College Fees	Currency(7,2)



Created the following fields on the 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
No of seats	Picklist		500-1000, 1000-2500, 2500-6000, 6000-10000

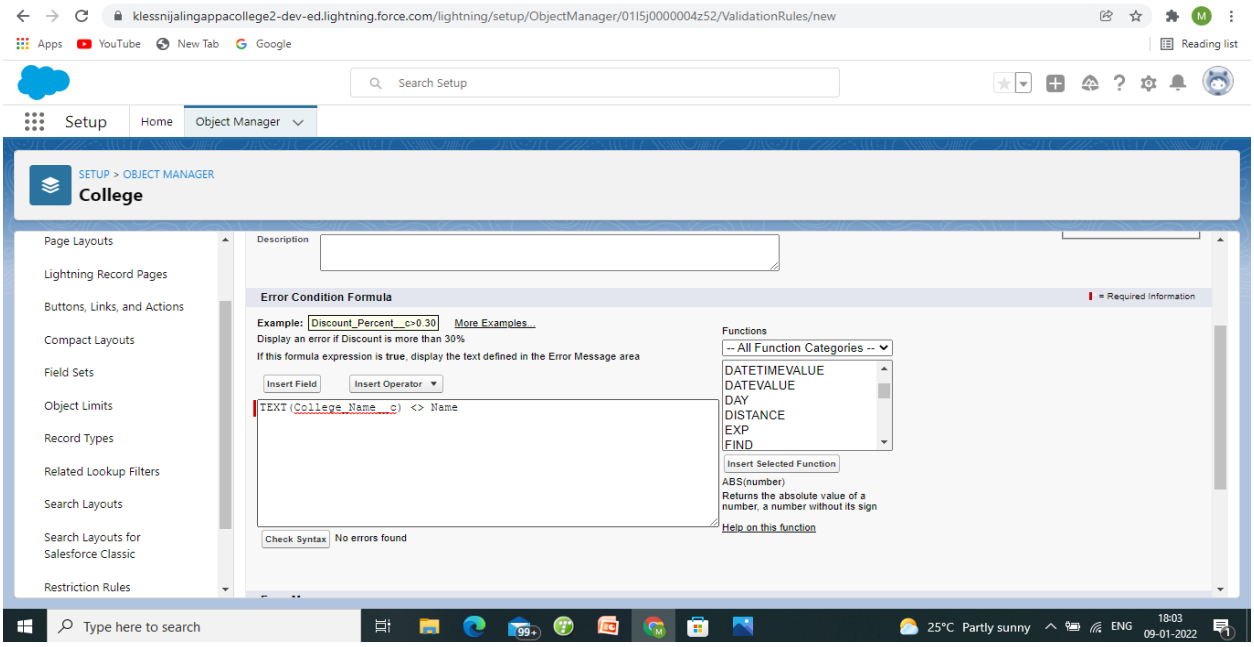
Screenshot :



. **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.

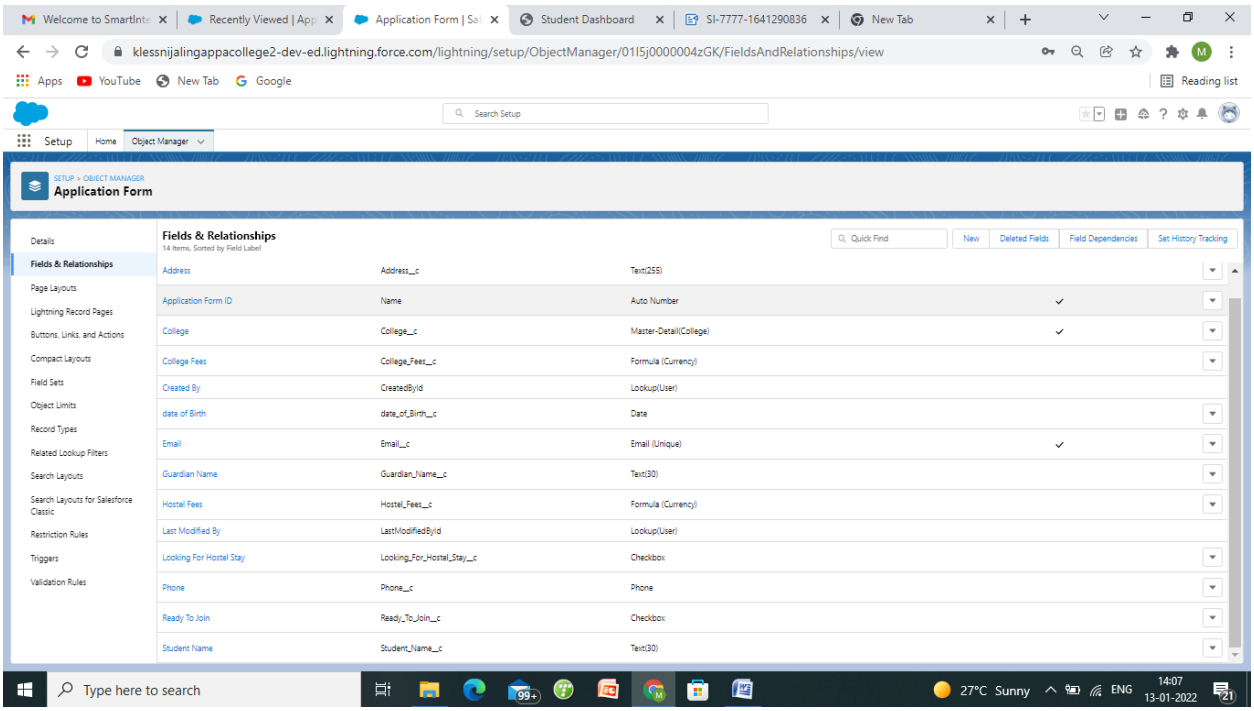
Screenshot:



.Created Fields 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	

Screenshot :



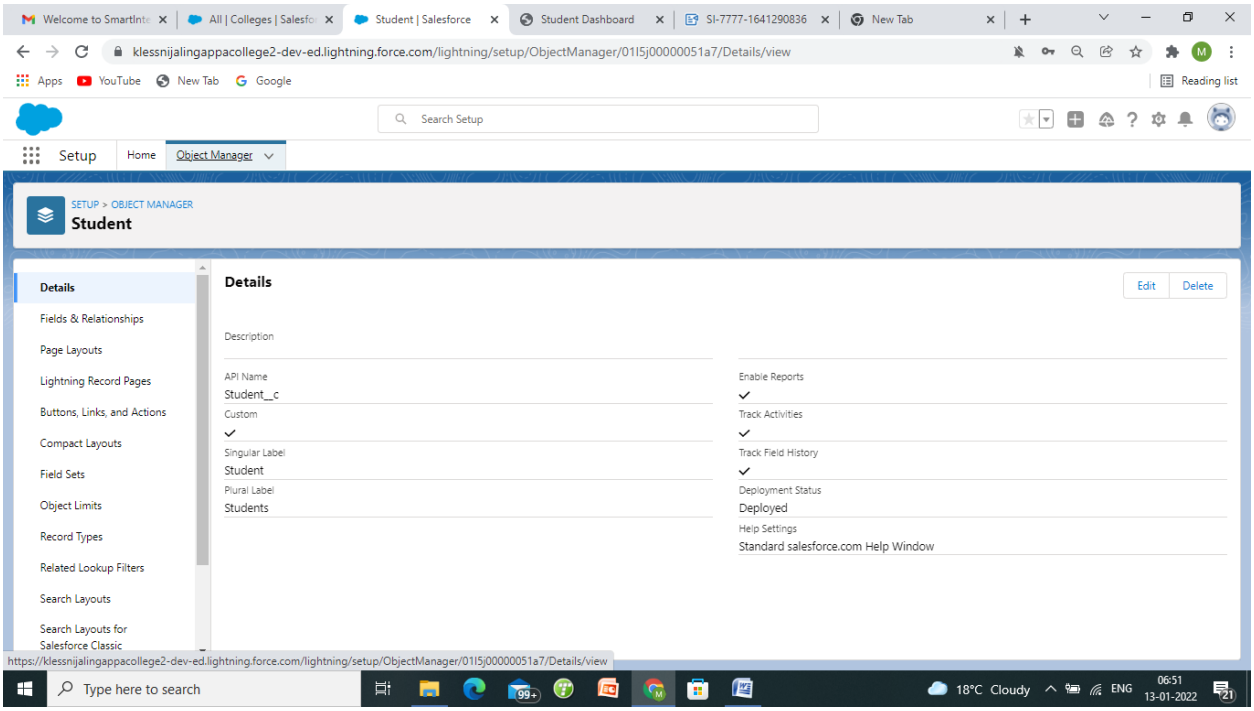
Day 3 :

Topic : Custom Object, Recordtypes,validation rules.

Milestone/Activity :Created custom object for student
Created Fields On Student Object
Created custom object for Subject
Created the fields On the Subject object
Created Global Picklist Value Sets
Created Field Dependencies
Creating Validation Rules on Application Form

Detailed Description : .Created custom object for student
steps are:
.go to object manager
.click on create
.then select custom object
.Give label name as Student
.Fill the require detail
.At the end click on save.

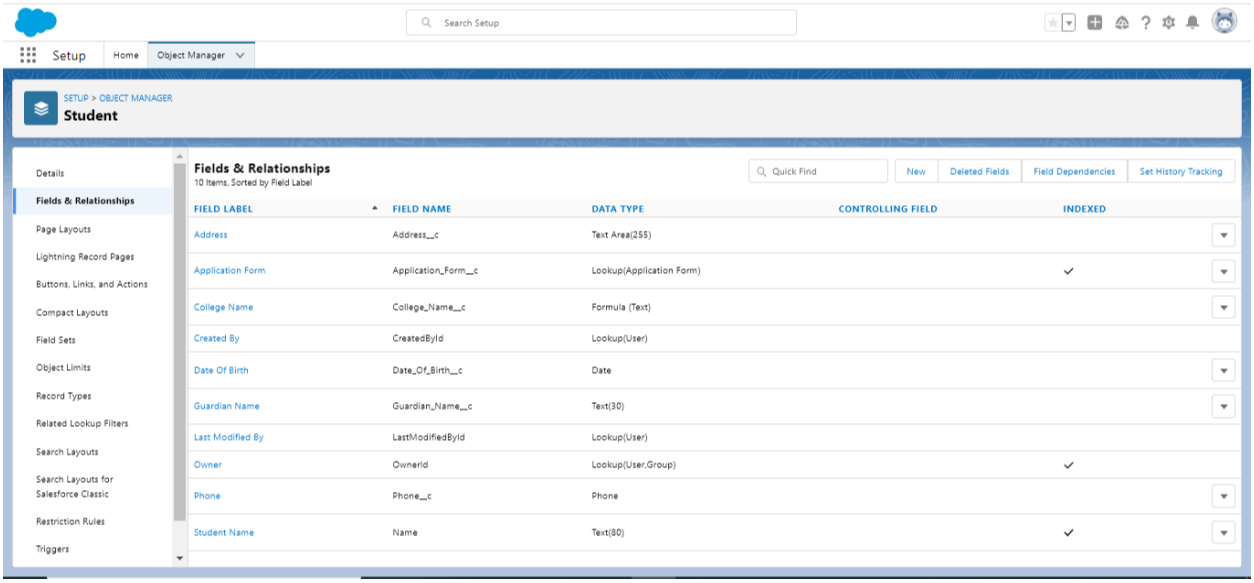
Screenshot :



.Created Fields On Student Object:

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

Screenshot:

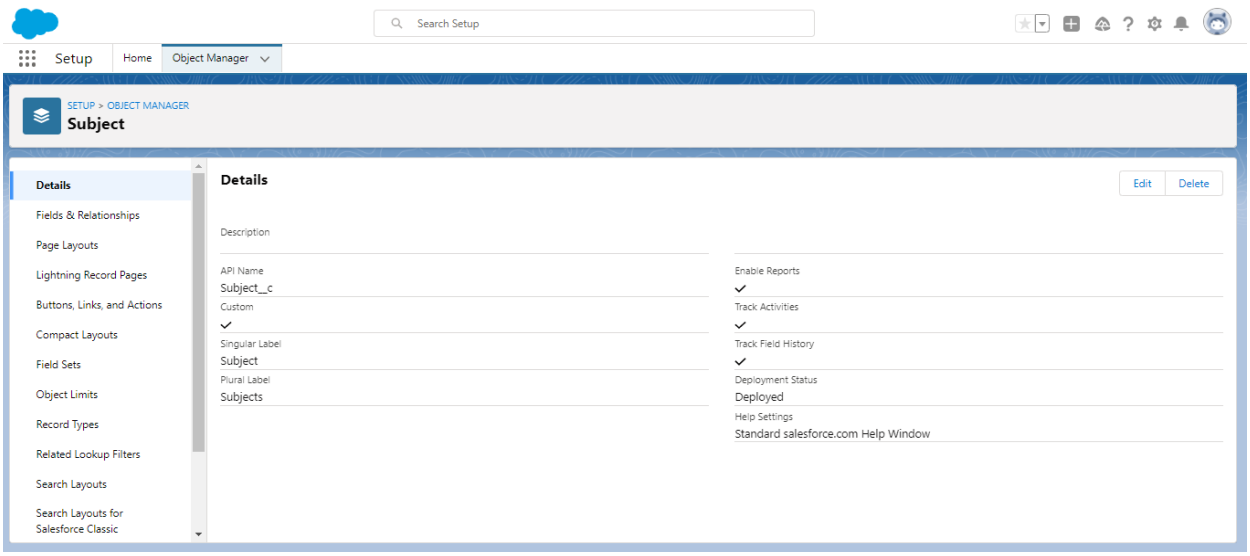


.Created custom object for Subject

steps are:

.go to object manager
.click on create
.then select custom object
.Give label name as Subject
.Fill the require detail
.At the end click on save.

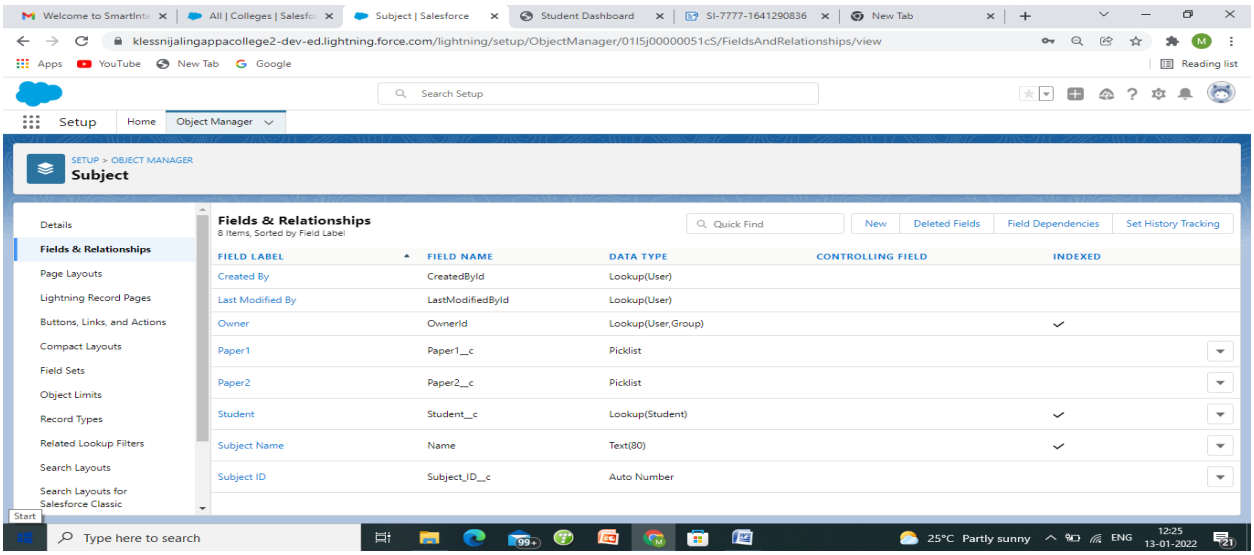
Screenshot :



.Created the following fields On the Subject object.

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

screenshot :



Creating Global Picklist Value Sets

1. Created the following global picklist value sets for the application.

a)College

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

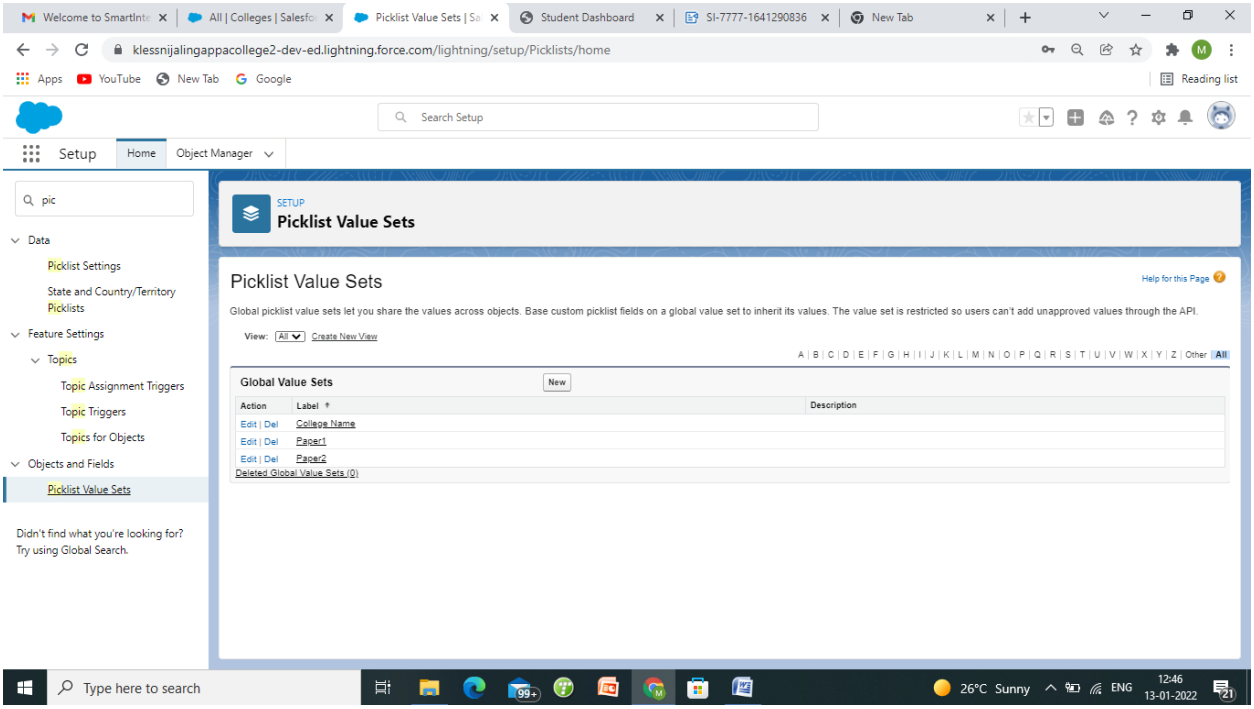
b)Paper1

Picklist Value Name	Values
Paper 1	APEX JAVA C C++

c)Paper2

Picklist Value Name	Values
Paper2	MATHEMATICS ENGLISH STATISTICS

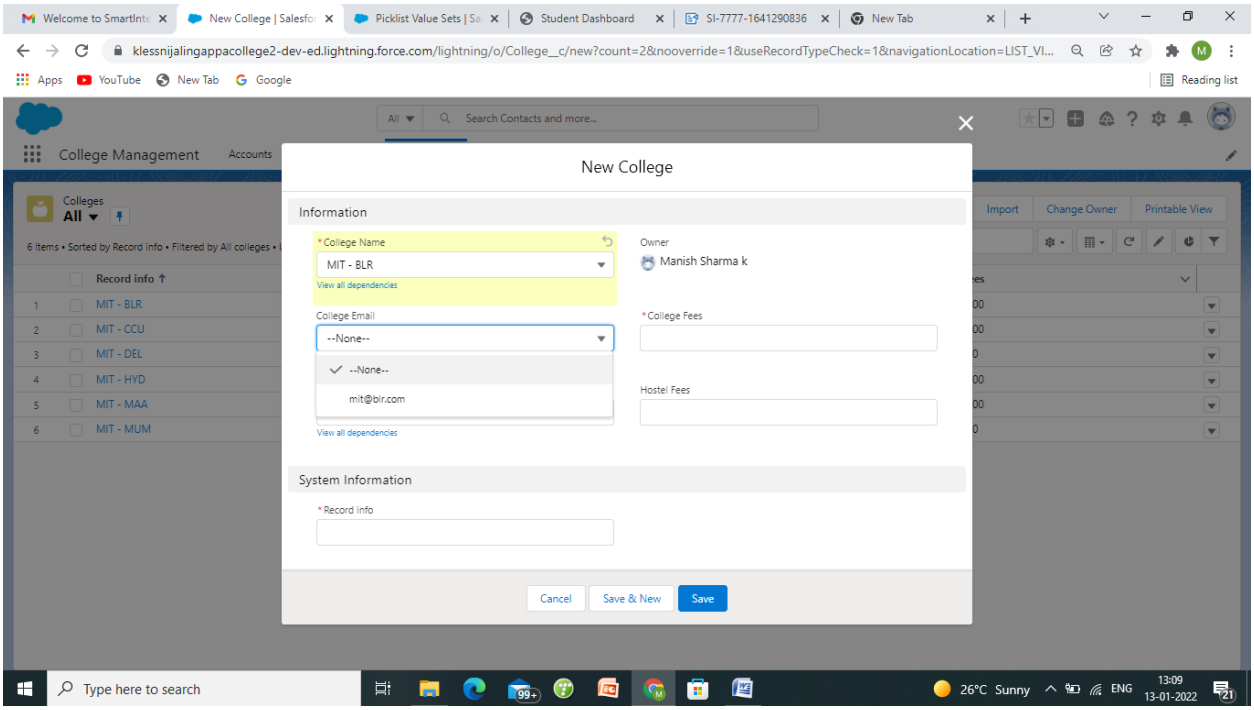
Screenshot :



Created Field Dependencies

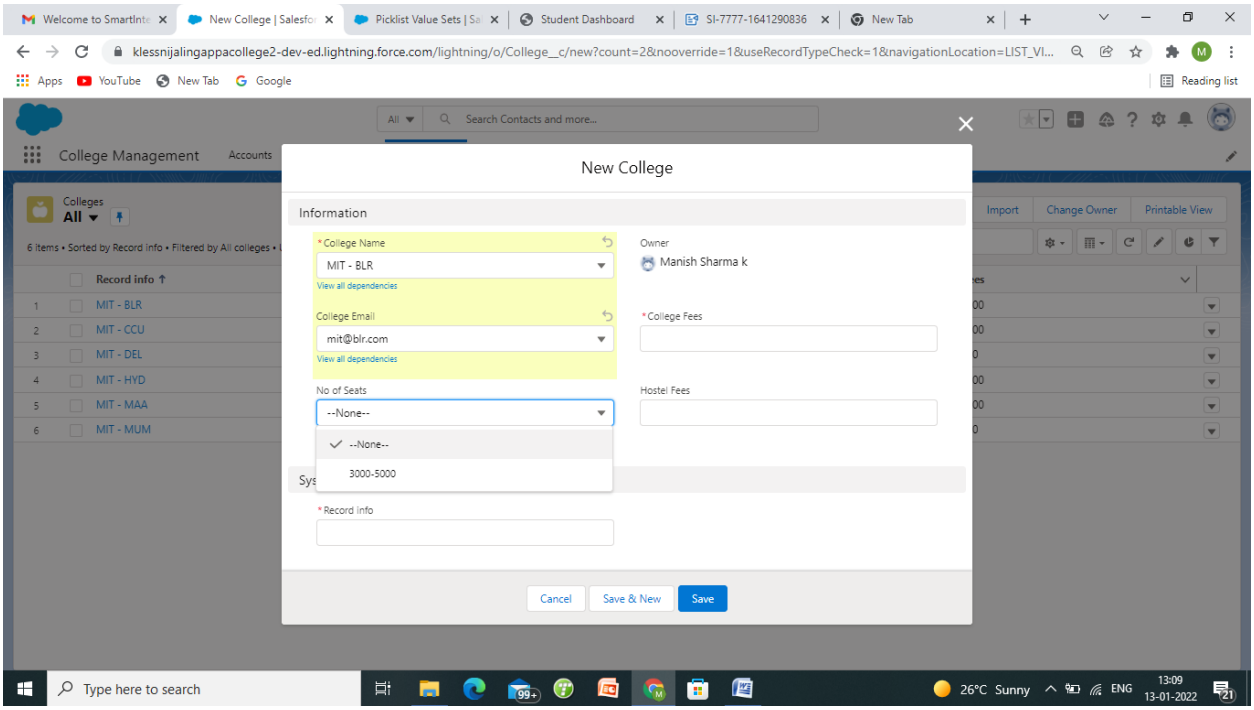
1. Created field dependency between college Name and Email, where the controlling field is college Name and dependent field is Email. Selected the email ids according to the college names.

Screenshot :



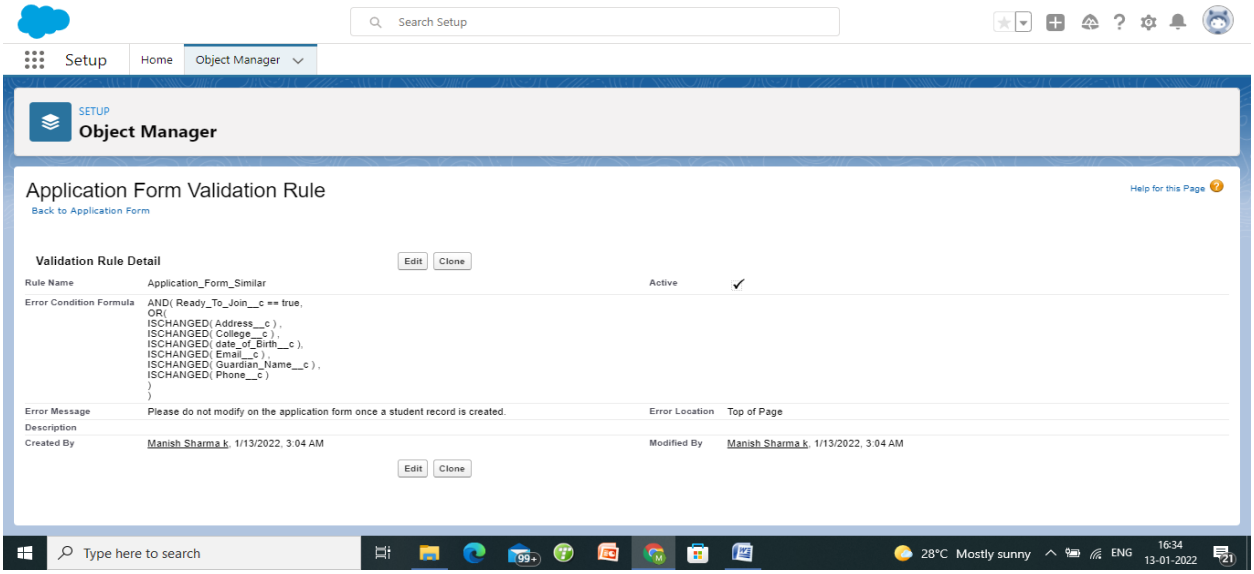
2. Created field dependency between college Name and capacity of students, where the controlling field is college Name and dependent field is Capacity of Students. Select the values according to your wish.

Screenshot :



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

Screenshot :



Day 4 :

Topic :Process Automation,Flow

Milestone/Activity : Process Automation

Created The Student Record Using Flow

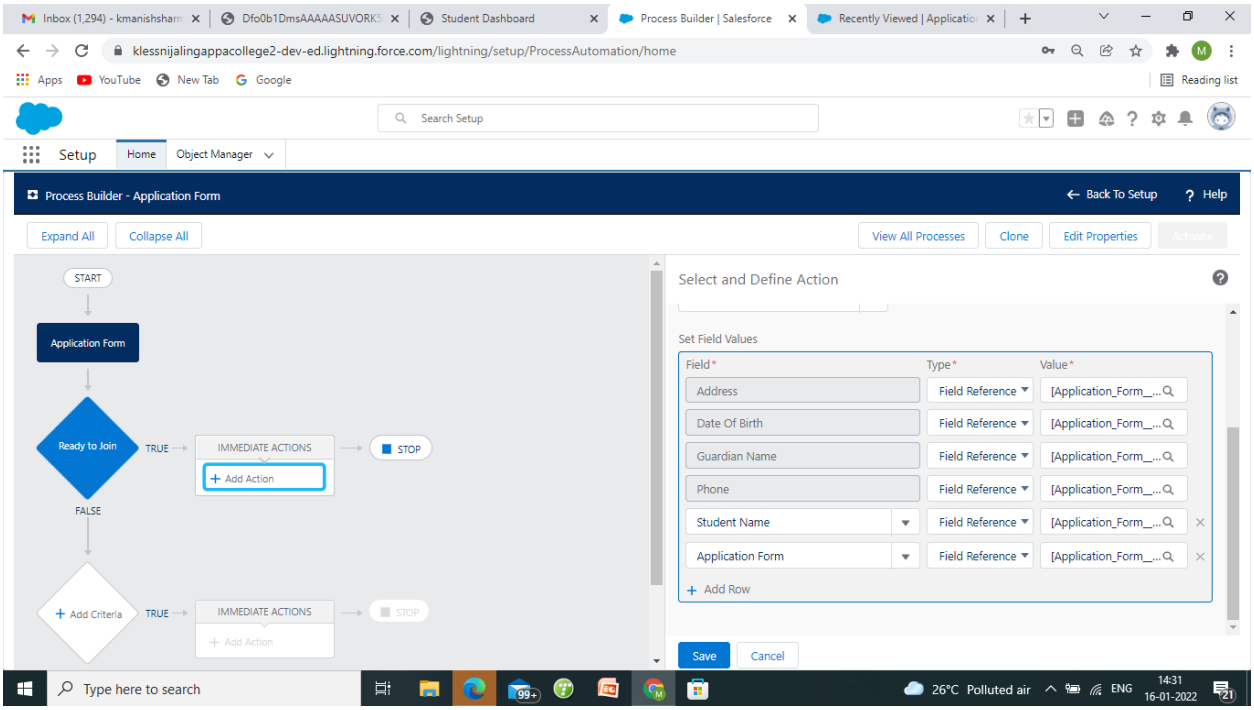
Detailed Description : .Created pocess automation for application form

. Created 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”.

- 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.”

Screenshot :



.Created The Student Record Using Flow

. First deactivated the process builder which we created earlier.

. Now search for flows and select new flow ->record triggered flow

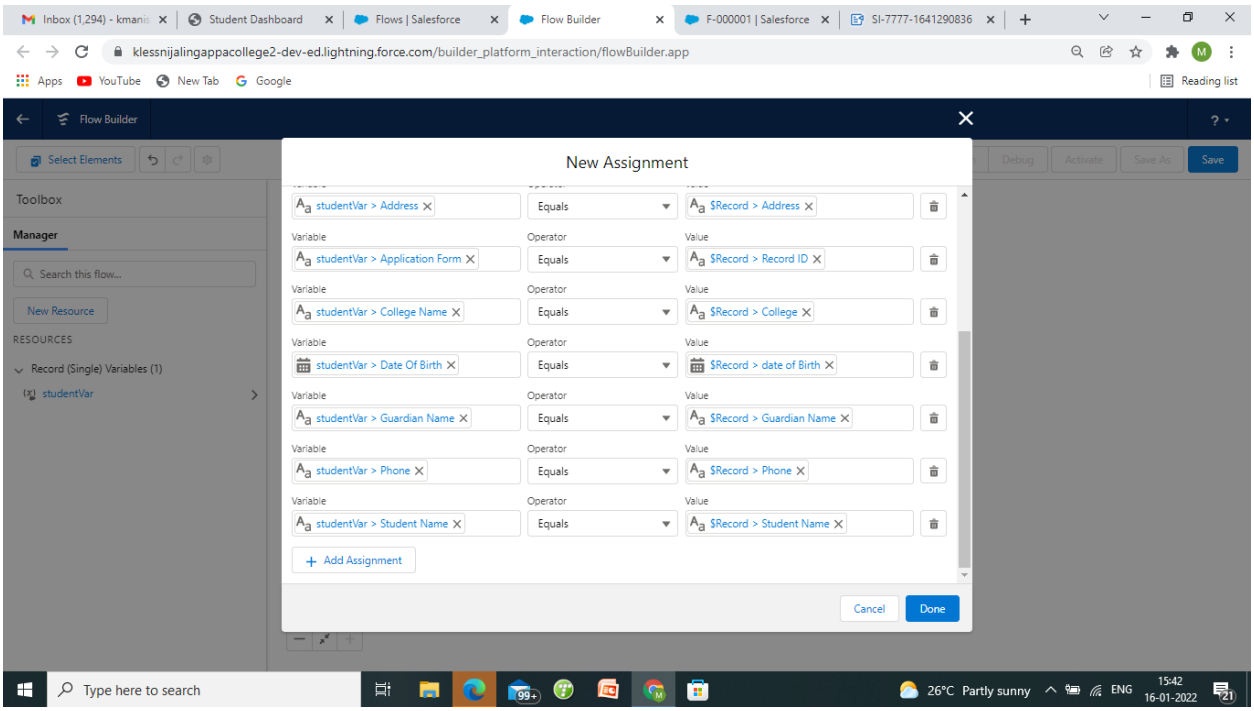
. For object select application form, in configure trigger select when the record is updated for entry criteria select as ready to join equals to true.

. Now create a variable named student in the resource section.

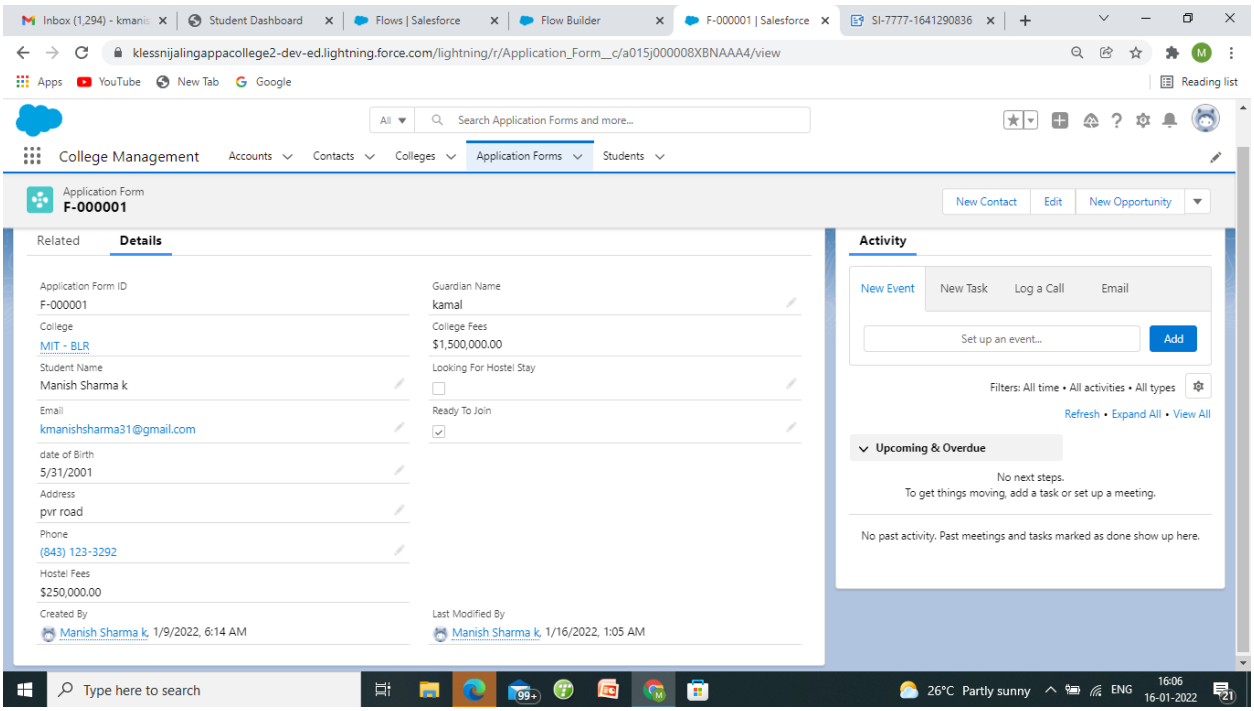
.Added Assignment

.Finally add create records.

Scrrenshot :added assignment



screenshot : Final output



Day 5 :

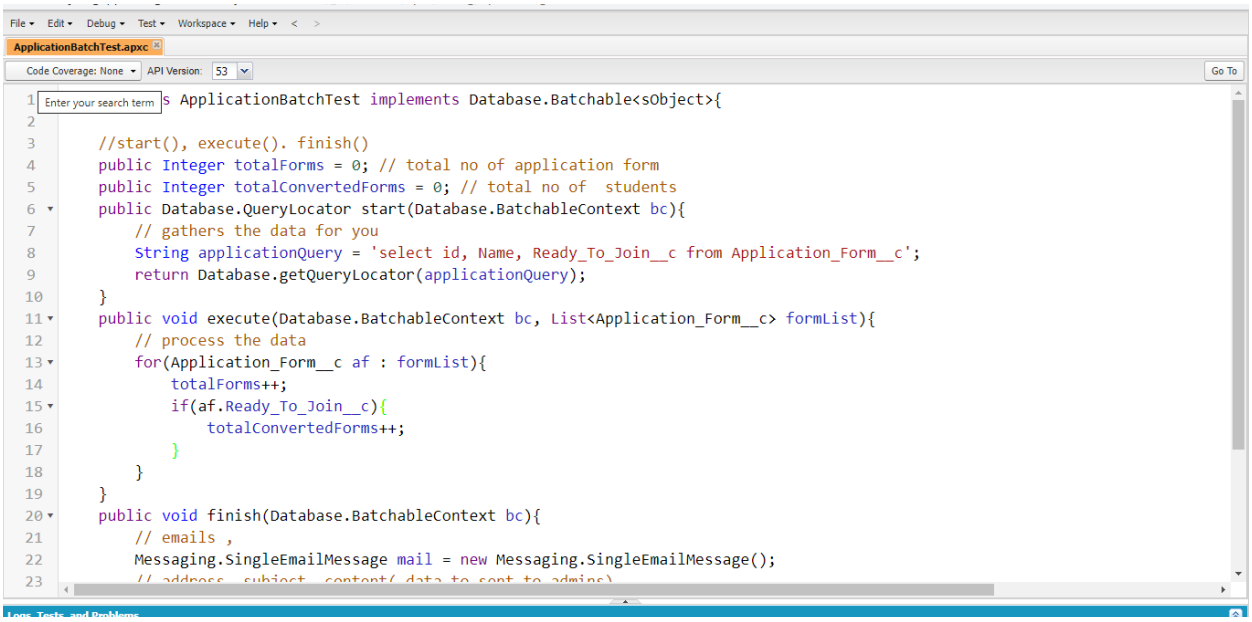
Topic: Batch Apex

Milestone/Activity: Batch appex

Detailed Discription :

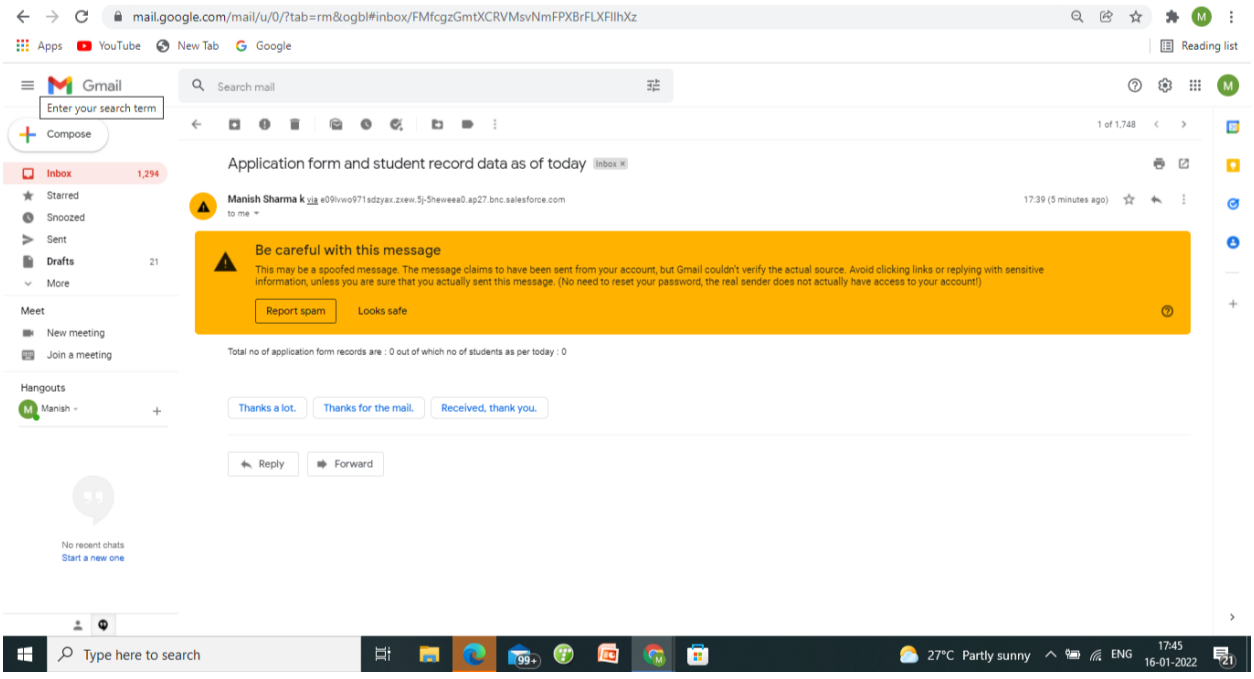
From the developer console createda new apex class and enter the following code.

Screenshot :



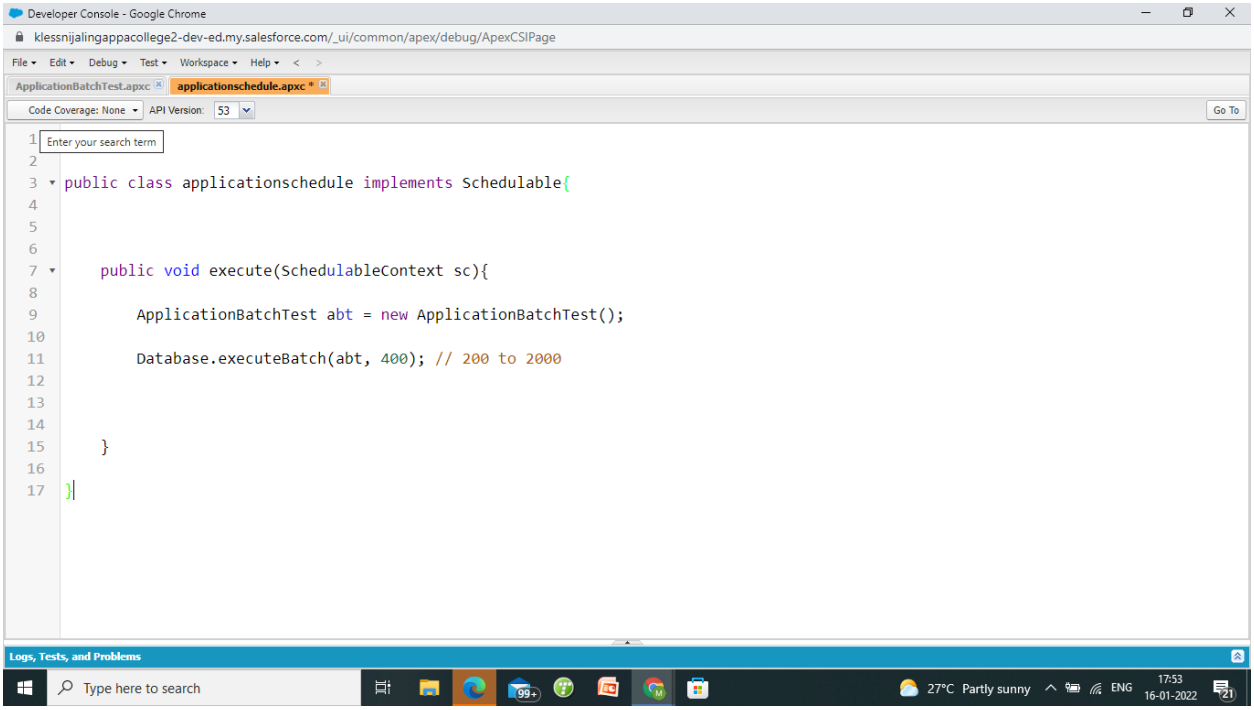
```
public class ApplicationBatchTest implements Database.Batchable<sObject>{

    //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 Application_Form__c';
        return Database.getQueryLocator(applicationQuery);
    }
    public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
        // process the data
        for(Application_Form__c af : formList){
            totalForms++;
            if(af.Ready_To_Join__c){
                totalConvertedForms++;
            }
        }
    }
    public void finish(Database.BatchableContext bc){
        // emails ,
        Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
```

Screenshot : email which I had recieved.



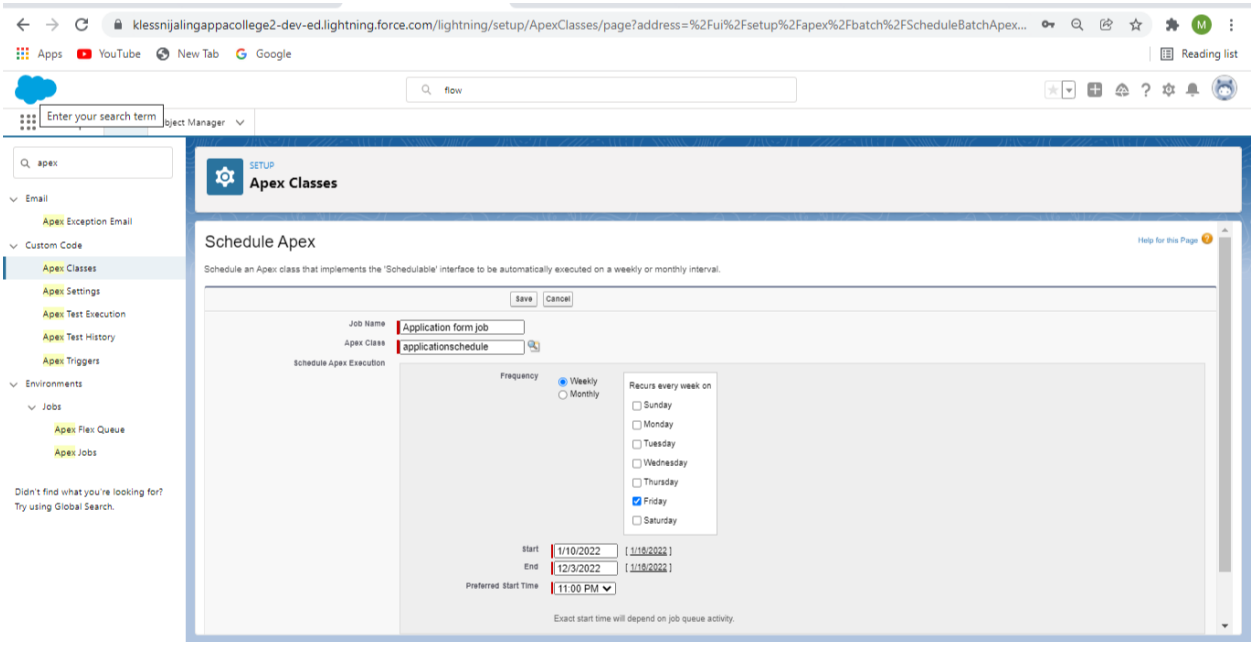
.A Schedular Class :

From the developer console created a new apex class as applicationschedule screenshot :



.From setup search for apex class and click on schedule jobs and fill the details as per the requirements.

Screenshot :



Day 6 :

Topic : Lightning Web Components

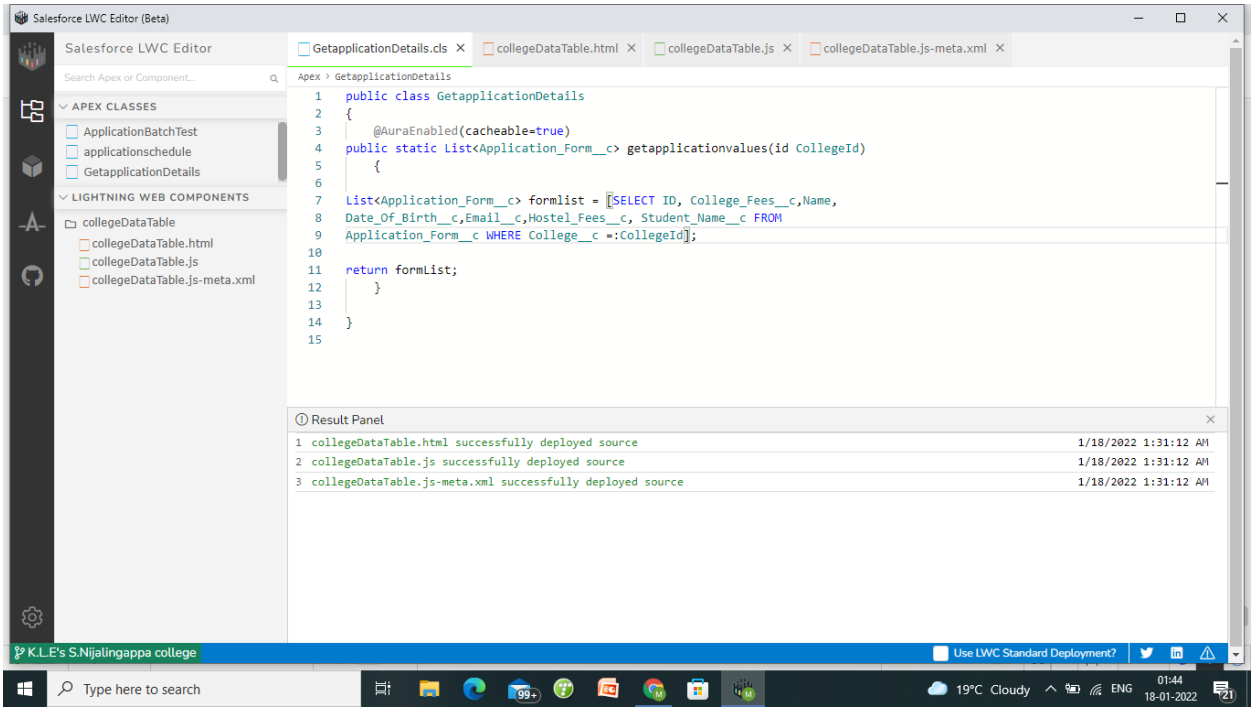
Milestone/Activity : **.Created College DataTable Component(APEX CLASS)**
.Created College DataTable Component (HTML FILE)
.Created College DataTable Component(JAVA SCRIPT FILE)
.Created College DataTable Component(META FILE)

Detailed Discription :

.Created College DataTable Component(APEX CLASS)

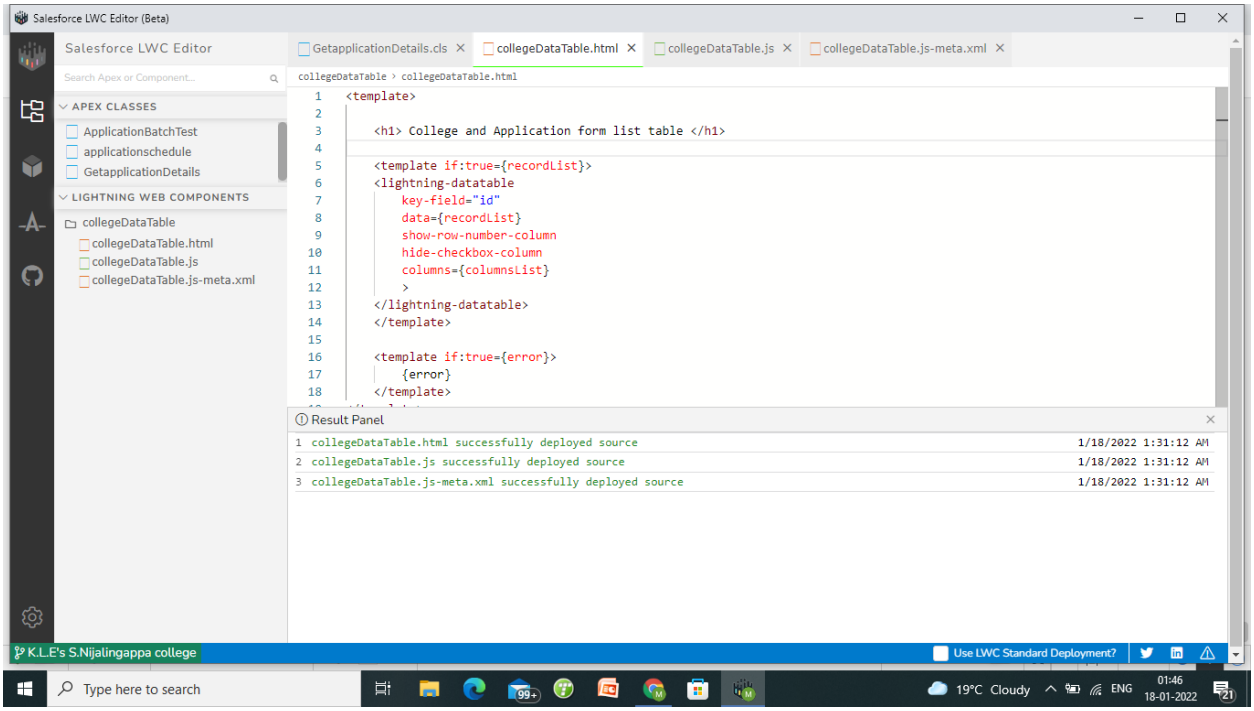
Here we are going to create the college data table, for this we need to create an apex class, from which we are going to retrieve the data and Html, javascript files for UI .

Screenshot :



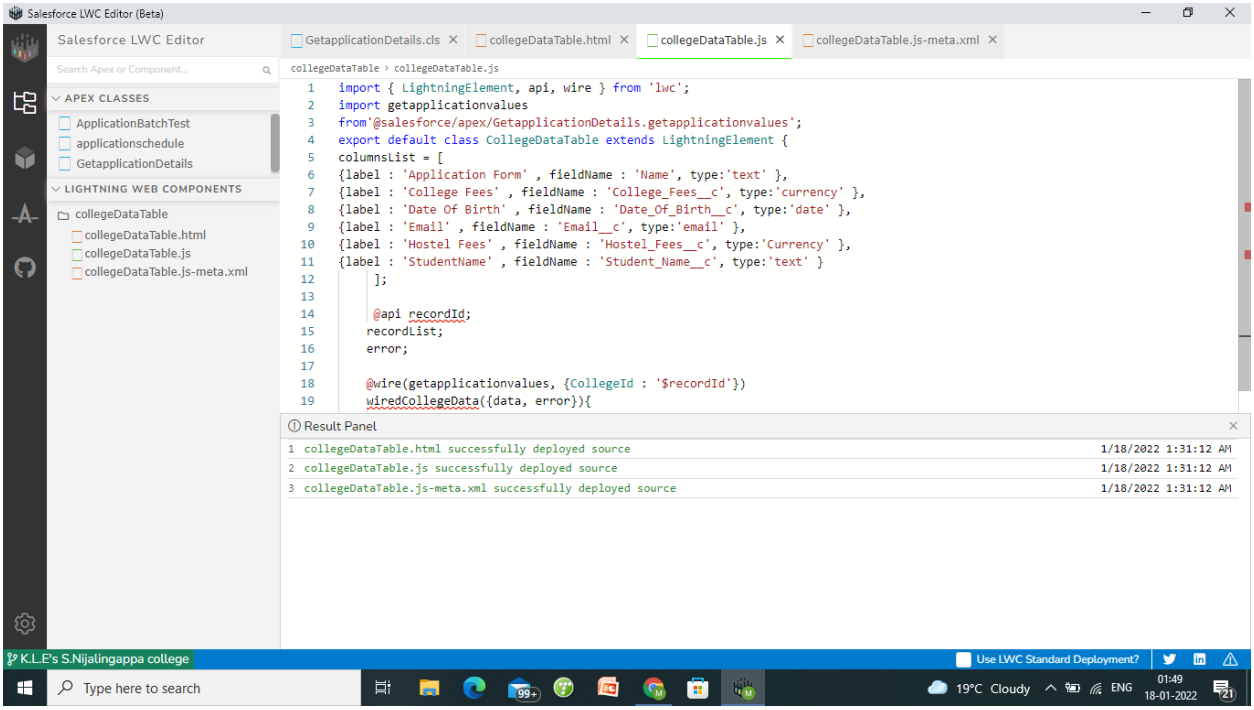
.Created College DataTable Component (HTML FILE)

Screenshot :



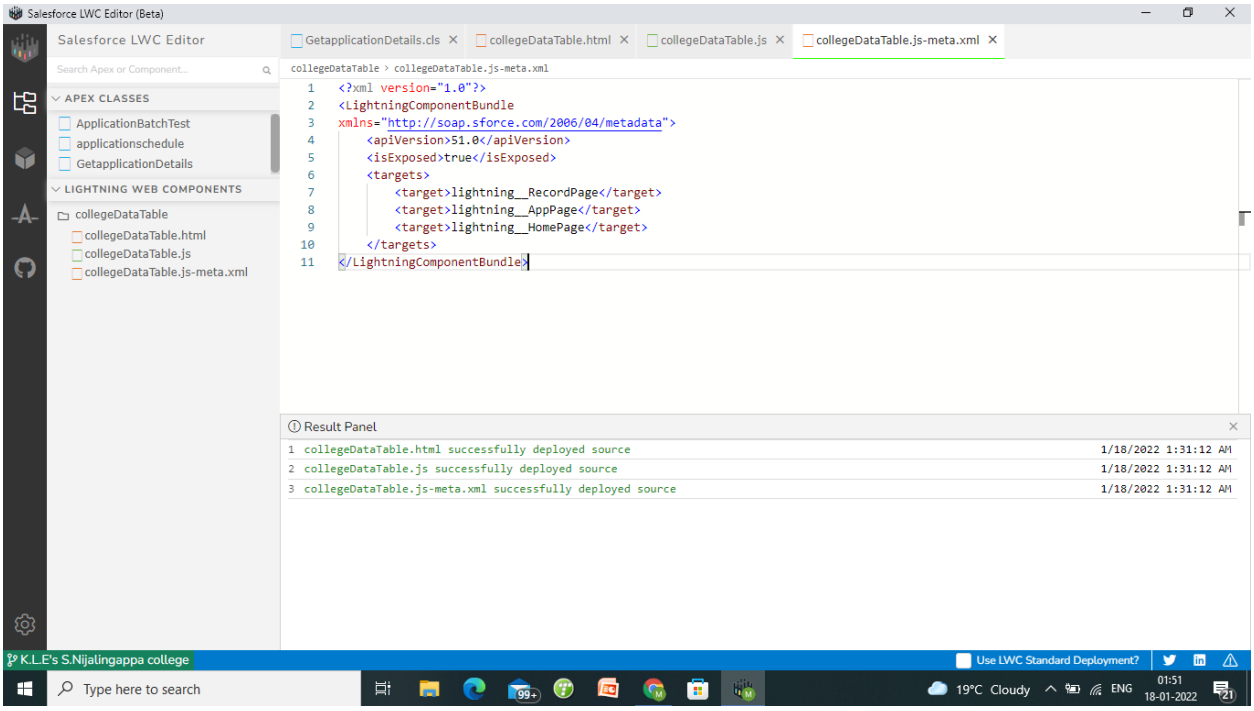
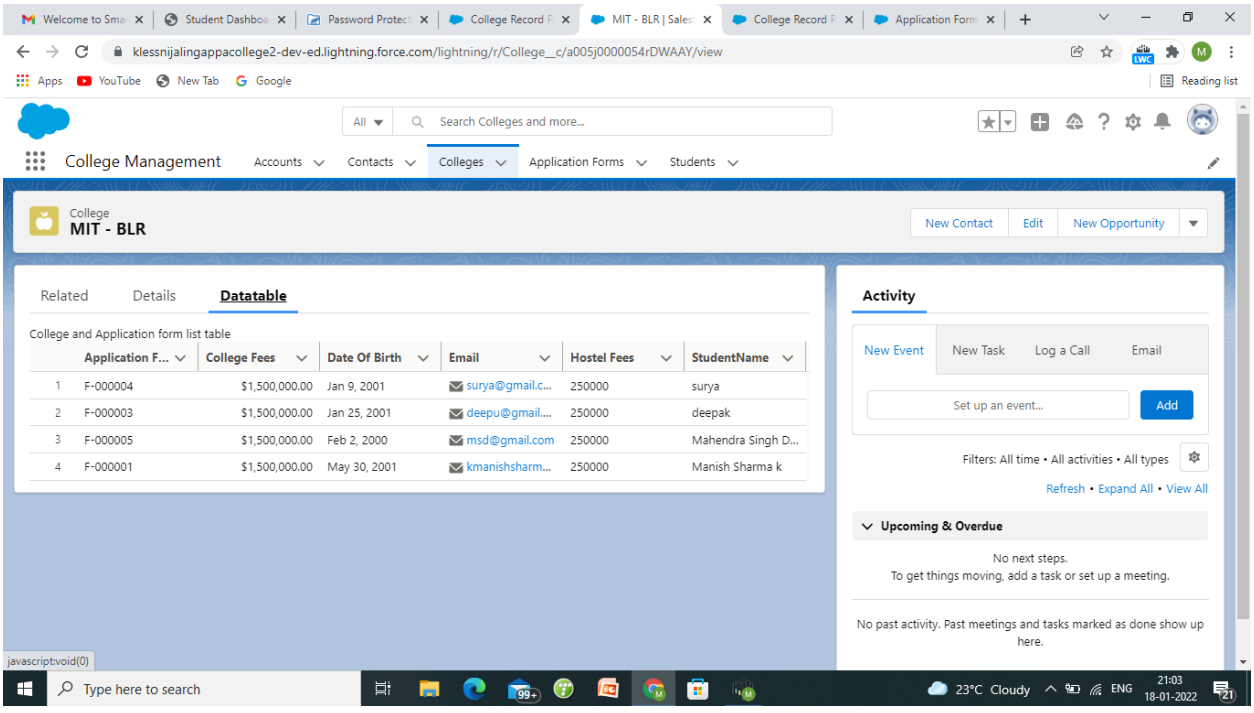
Created College DataTable Component(JAVA SCRIPT FILE)

Screenshot :



Created College DataTable Component(META FILE)

Screenshot :



Screenshot : Final Output