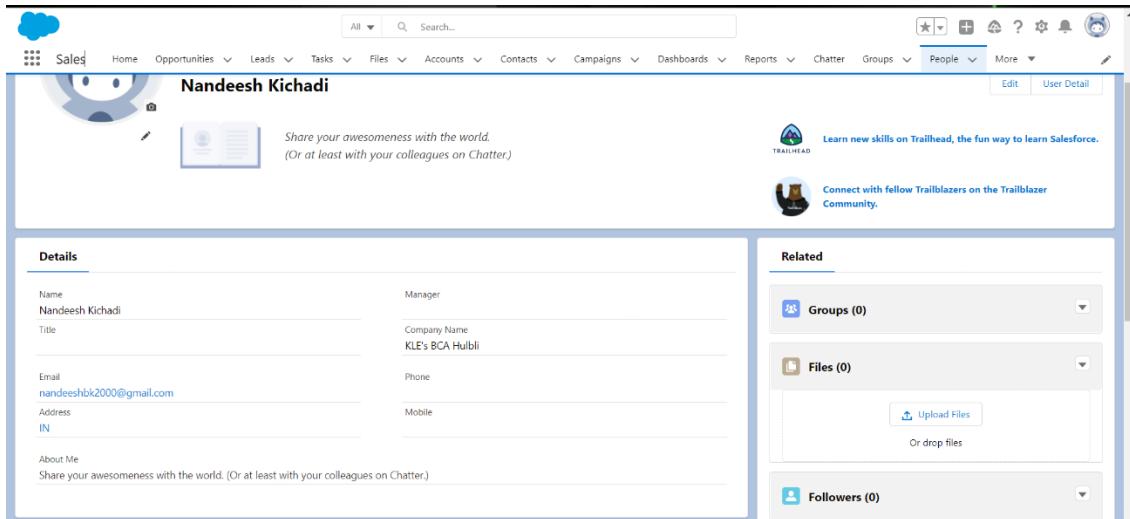


Task 1.1 :

Created Salesforce Developer Org

with username "nandeesh@klebca.in"



Task1.2:

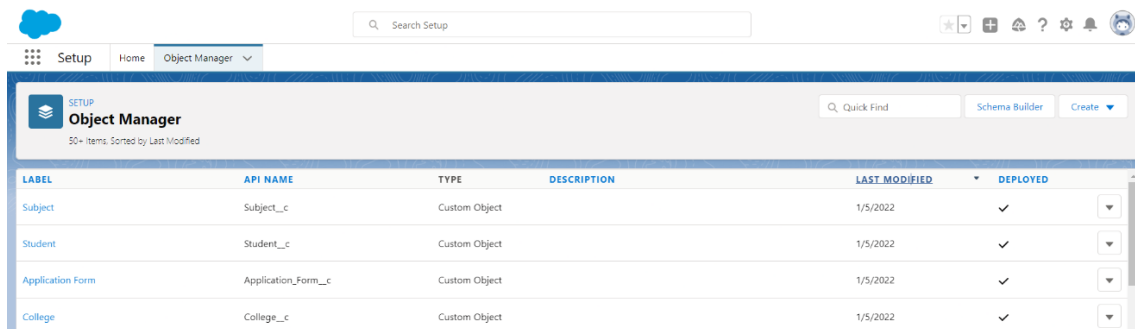
1.2.1:Created the following Custom Objects For the Application.

1. College

2. Application Form.

3. Students.

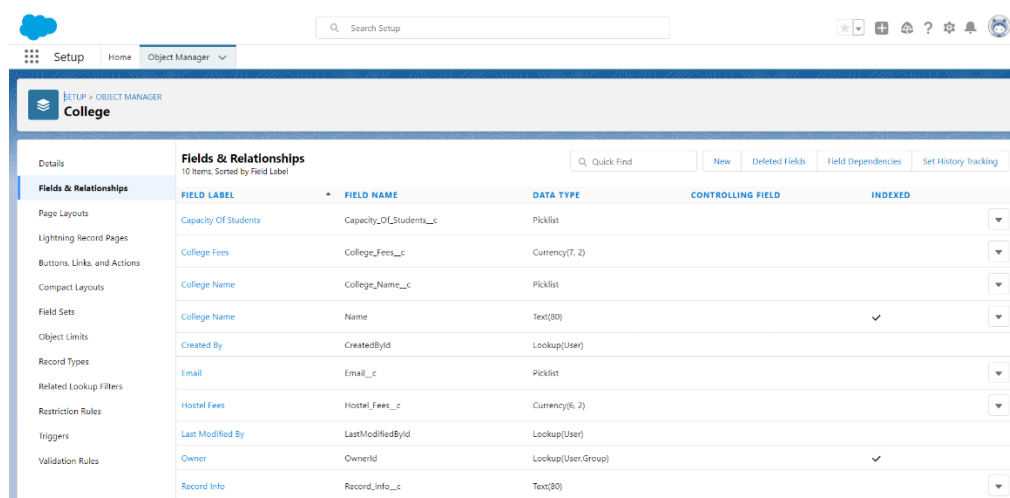
4. Subjects.



The screenshot shows the Salesforce Object Manager interface. At the top, there's a navigation bar with 'Setup', 'Home', and 'Object Manager'. Below this, the 'Object Manager' section is active, showing a list of objects. The table has columns: LABEL, API NAME, TYPE, DESCRIPTION, LAST MODIFIED, and DEPLOYED. The objects listed are Subject, Student, Application Form, and College, all of which are Custom Objects and were last modified on 1/5/2022.

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Subject	Subject__c	Custom Object		1/5/2022	✓
Student	Student__c	Custom Object		1/5/2022	✓
Application Form	Application_Form__c	Custom Object		1/5/2022	✓
College	College__c	Custom Object		1/5/2022	✓

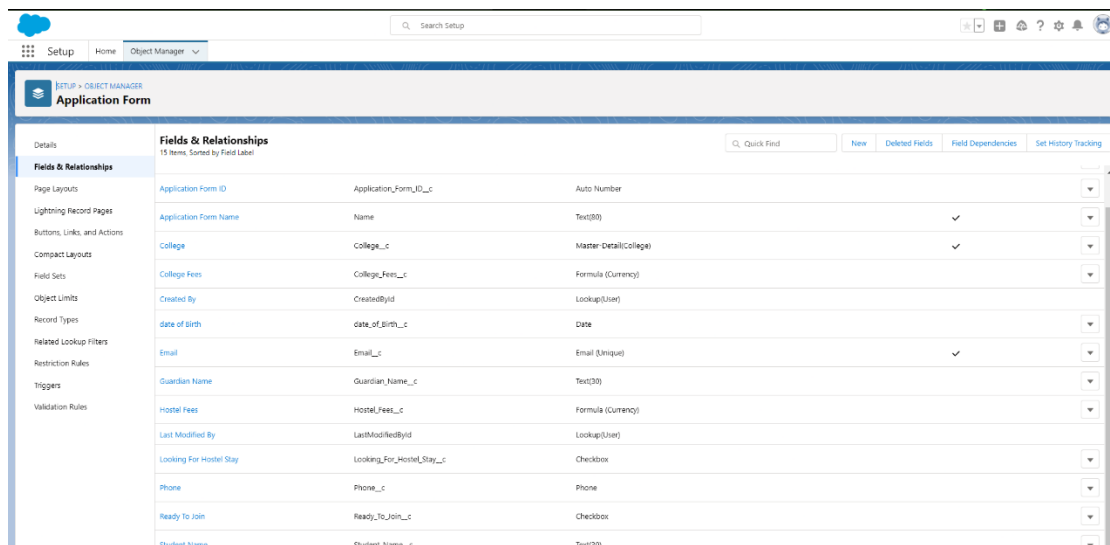
1.2.2: Created Fields On College Object .



The screenshot shows the 'Fields & Relationships' section for the 'College' object. The table lists various fields with their labels, names, data types, and whether they are indexed. Fields include Capacity Of Students, College Fees, College Name, Created By, Email, Hostel Fees, Last Modified By, Owner, and Record Info.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity Of Students	Capacity_Of_Students__c	Picklist		
College Fees	College_Fees__c	Currency(7, 2)		
College Name	College_Name__c	Picklist		
College Name	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		
Email	Email__c	Picklist		
Hostel Fees	Hostel_Fees__c	Currency(6, 2)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User:Group)		✓
Record Info	Record_Info__c	Text(80)		

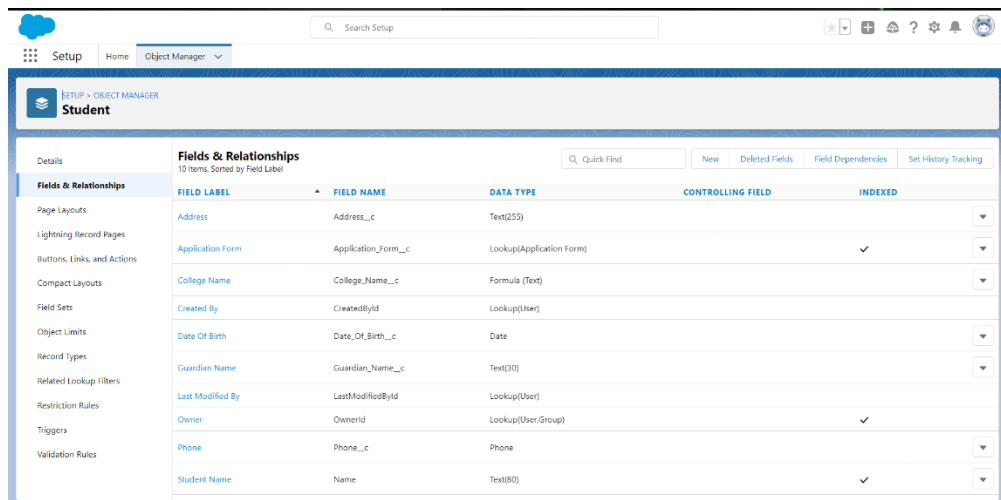
1.2.3:Create Fields On Application Form Object



The screenshot shows the 'Fields & Relationships' section for the 'Application Form' object. The table lists various fields with their labels, names, data types, and whether they are indexed. Fields include Application Form ID, Application Form Name, College, College Fees, Created By, date of birth, Email, Guardian Name, Hostel Fees, Last Modified By, Looking For Hostel Stay, Phone, Ready To Join, and Student Name.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
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 (Unique)		✓
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)		

1.2.4: Create Fields On Student Object

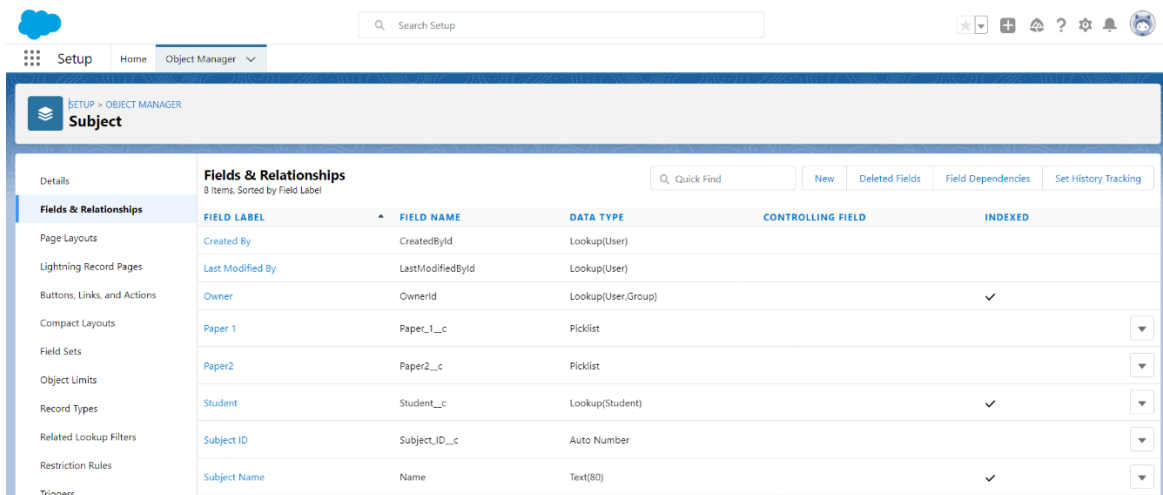


The screenshot shows the Salesforce Setup interface for the 'Student' object. The 'Fields & Relationships' tab is selected, displaying a table of fields. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Address, Application Form, College Name, Created By, Date Of Birth, Guardian Name, Last Modified By, Owner, Phone, and Student Name. The 'Student Name' field is highlighted in blue.

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	Name	Text(80)		✓

1.2.5:

Create Fields On Subject Object

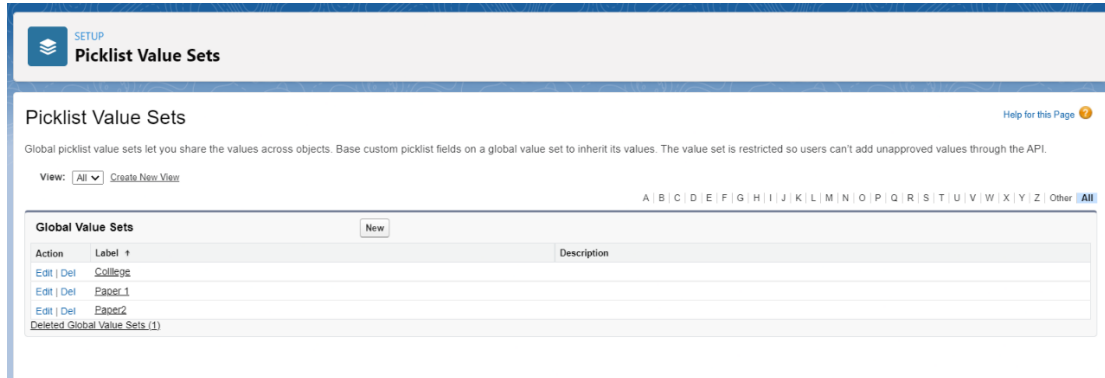


The screenshot shows the Salesforce Setup interface for the 'Subject' object. The 'Fields & Relationships' tab is selected, displaying a table of fields. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are: Created By, Last Modified By, Owner, Paper 1, Paper2, Student, Subject ID, and Subject Name. The 'Subject Name' field is highlighted in blue.

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		
Paper2	Paper2__c	Picklist		
Student	Student__c	Lookup(Student)		✓
Subject ID	Subject_ID__c	Auto Number		
Subject Name	Name	Text(80)		✓

1.3: Adding Business Logic To Application

1.3.1:Creating Global Picklist Value Sets

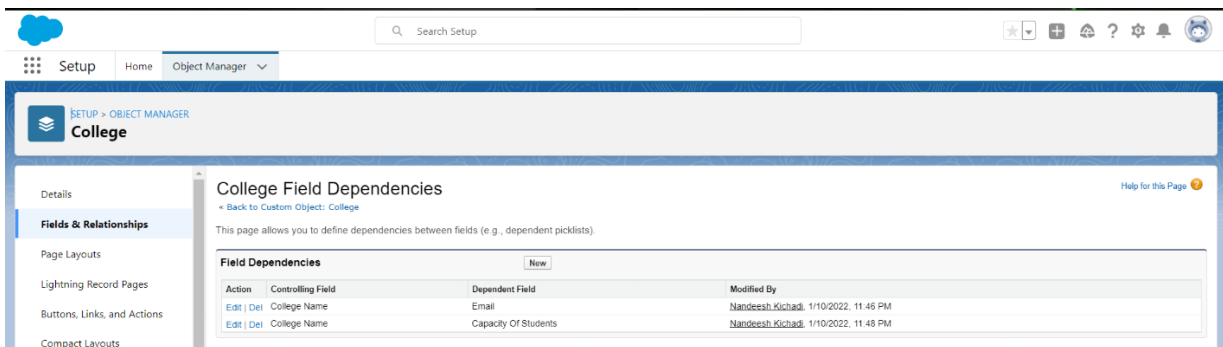


The screenshot shows the 'Global Value Sets' page in Salesforce Setup. The page title is 'Global Value Sets' with a 'Help for this Page' link. Below the title, a description states: 'Global picklist value sets let you share the values across objects. Base custom picklist fields on a global value set to inherit its values. The value set is restricted so users can't add unapproved values through the API.' There is a 'View:' dropdown set to 'All' and a 'Create New View' link. A navigation bar at the top lists letters A through Z and 'Other', with 'All' selected. Below this is a table titled 'Global Value Sets' with a 'New' button. The table has columns for 'Action', 'Label', and 'Description'. It lists three value sets: 'College', 'Pacer1', and 'Pacer2', each with 'Edit' and 'Del' links. At the bottom, it says 'Deleted Global Value Sets (1)'.

Action	Label	Description
Edit Del	College	
Edit Del	Pacer1	
Edit Del	Pacer2	

Deleted Global Value Sets (1)

1.3.2:Creating Field Dependencies



The screenshot shows the 'College Field Dependencies' page in Salesforce Setup. The page title is 'College Field Dependencies' with a 'Help for this Page' link. Below the title, a description states: 'This page allows you to define dependencies between fields (e.g., dependent picklists).' There is a 'Back to Custom Object: College' link. A navigation bar at the top lists letters A through Z and 'Other', with 'All' selected. Below this is a table titled 'Field Dependencies' with a 'New' button. The table has columns for 'Action', 'Controlling Field', 'Dependent Field', and 'Modified By'. It lists two dependencies: 'College Name' (controlling) to 'Email' (dependent) and 'College Name' (controlling) to 'Capacity Of Students' (dependent), both modified by 'Nandeesh Kichadi' on 1/10/2022.

Action	Controlling Field	Dependent Field	Modified By
Edit Del	College Name	Email	Nandeesh Kichadi, 1/10/2022, 11:46 PM
Edit Del	College Name	Capacity Of Students	Nandeesh Kichadi, 1/10/2022, 11:48 PM

1.3.3:Creating Validation Rules

SETUP > OBJECT MANAGER
College

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets

College Validation Rule

[Back to College](#)

Validation Rule Detail [Edit](#) [Clone](#)

Rule Name	collegename_and_recordname	Active	✓
Error Condition Formula	TEXT(College_Name__c) <> Name		
Error Message	Entered text "college name "is not matched with selected college name	Error Location	Top of Page
Description			
Created By	Nandeesh Kichadi	Modified By	Nandeesh Kichadi
	1/10/2022, 11:55 PM		1/10/2022, 11:55 PM

[Edit](#) [Clone](#)

SETUP > OBJECT MANAGER
Application Form

Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters

Application Form Validation Rule

[Back to Application Form](#)

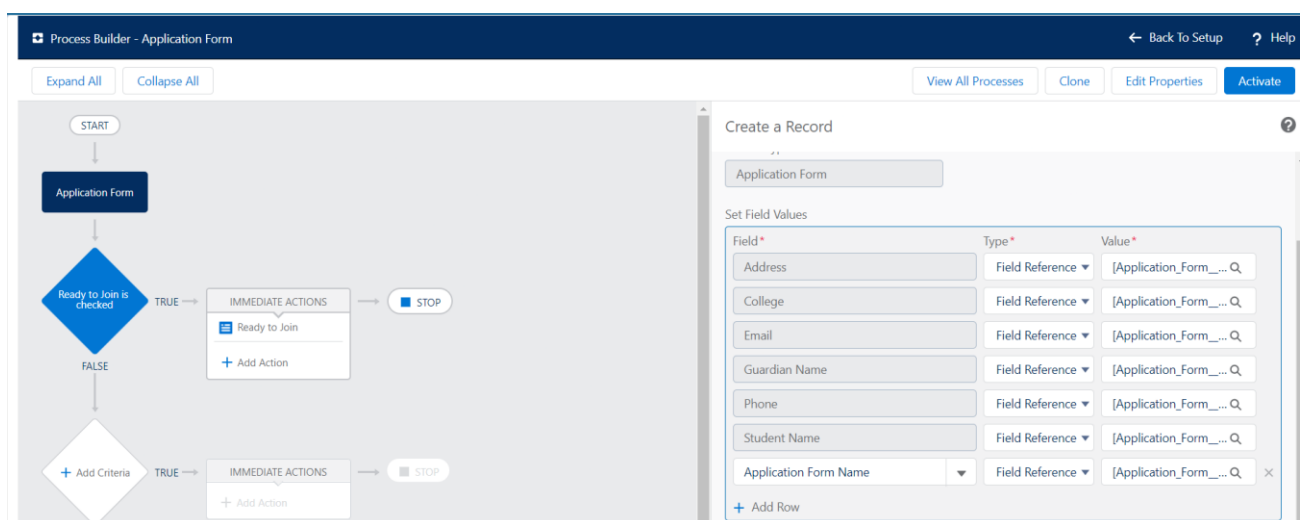
Validation Rule Detail [Edit](#) [Clone](#)

Rule Name	CHECK_modification	Active	✓
Error Condition Formula	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)))		
Error Message	NOT ALLOWED TO MODIFICATION	Error Location	Top of Page
Description	stop any modification on the application form once a student record is created.		
Created By	Nandeesh Kichadi	Modified By	Nandeesh Kichadi
	1/10/2022, 11:59 PM		1/10/2022, 11:59 PM

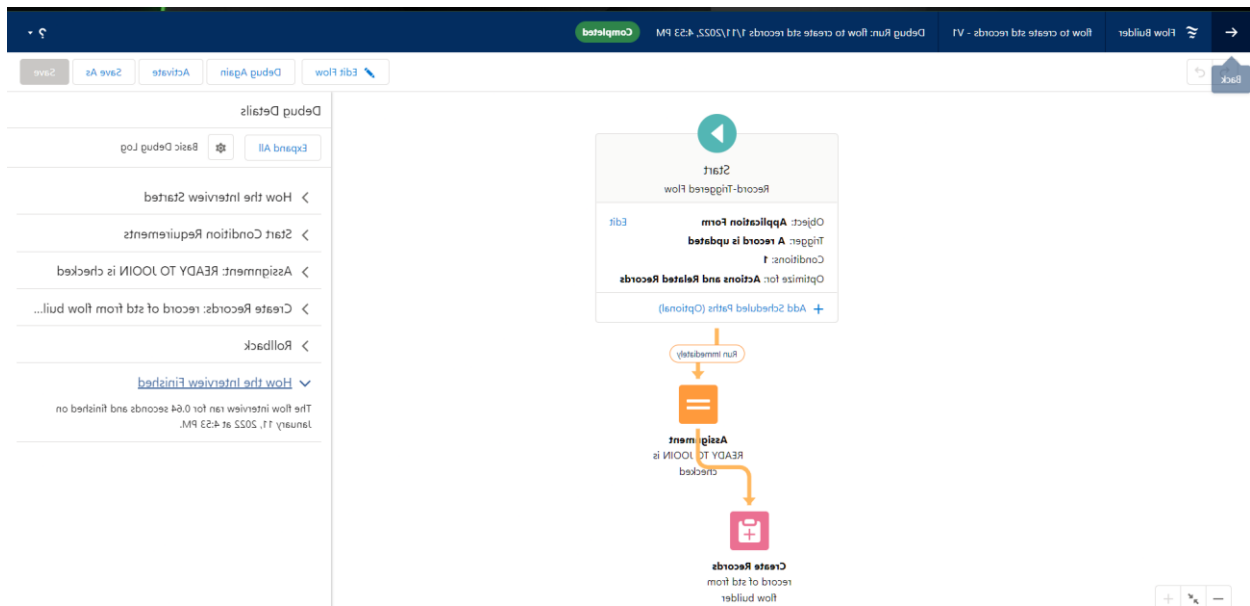
[Edit](#) [Clone](#)

1.3.4:Process

Automation



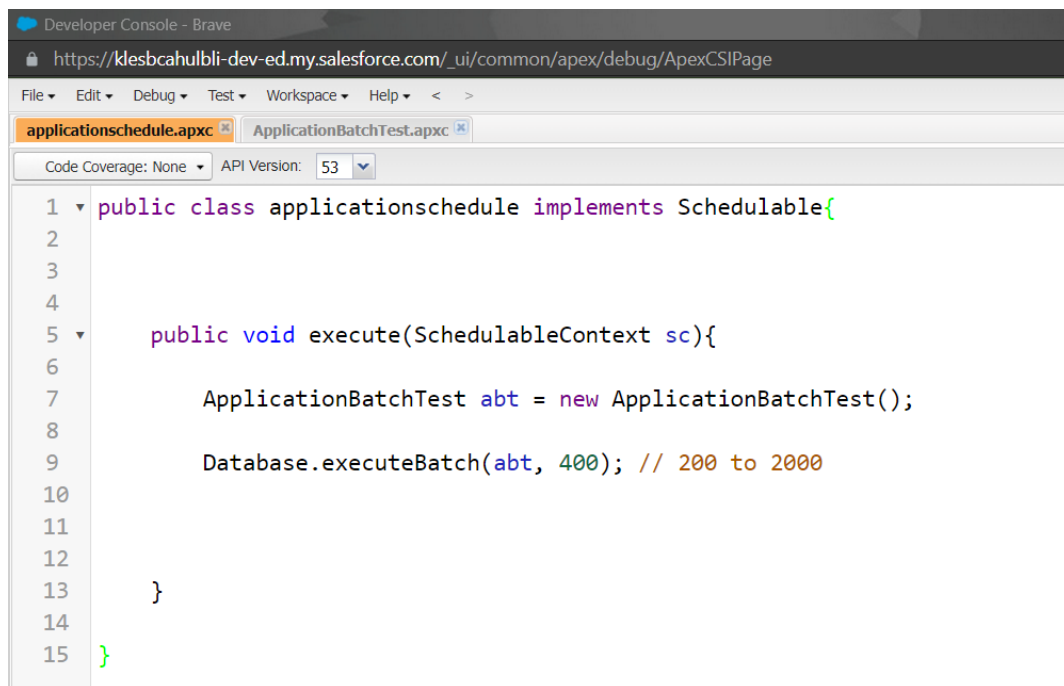
1.3.5:Create The Student Record Using Flow



Create A Batchapex For Application Form

```
10 }
11 public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
12     // process the data
13     for(Application_Form__c af : formList){
14         totalForms++;
15         if(af.Ready_To_Join__c){
16             totalConvertedForms++;
17         }
18     }
19 }
20 public void finish(Database.BatchableContext bc){
21     // emails ,
22     Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
23     // address, subject, content( data to sent to admins)
24     mail.setSubject(' Application form and student record data as of today ');
25     mail.setPlainTextBody(' Total no of application form records are : '+totalForms+ ' out of which no of students as per today : '+totalConvertedForms);
26     String[] emailAddress = new String[]{'your email address'};
27     mail.setToAddresses(emailAddress);
28     Messaging.sendEmail(new Messaging.SingleEmailMessage[] { mail } );
29 }
30 }
```

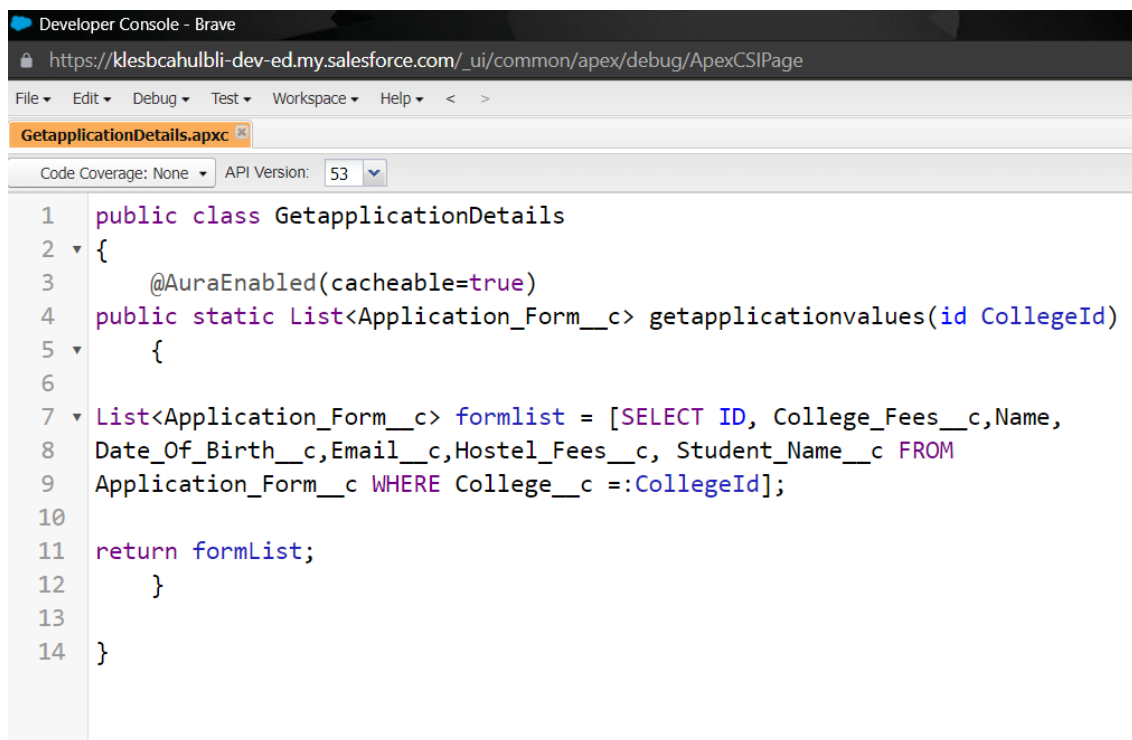
Create A Scheduler Class



The screenshot shows the Salesforce Developer Console interface. The browser address bar displays the URL: `https://klesbcahulbli-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The file explorer at the top shows two files: `applicationschedule.apxc` (selected) and `ApplicationBatchTest.apxc`. Below the file explorer, the code editor displays the following Apex code for `applicationschedule.apxc`:

```
1 public class applicationschedule implements Schedulable{
2
3
4
5     public void execute(SchedulableContext sc){
6
7         ApplicationBatchTest abt = new ApplicationBatchTest();
8
9         Database.executeBatch(abt, 400); // 200 to 2000
10
11
12
13     }
14
15 }
```

Create College DataTable Component(APEX CLASS)



The screenshot shows the Salesforce Developer Console interface. The browser address bar displays the URL: `https://klesbcahulbli-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The file explorer at the top shows one file: `GetapplicationDetails.apxc` (selected). Below the file explorer, the code editor displays the following Apex code for `GetapplicationDetails.apxc`:

```
1 public class GetapplicationDetails
2 {
3     @AuraEnabled(cacheable=true)
4     public static List<Application_Form__c> getapplicationvalues(id CollegeId)
5     {
6
7         List<Application_Form__c> formlist = [SELECT ID, College_Fees__c, Name,
8         Date_Of_Birth__c, Email__c, Hostel_Fees__c, Student_Name__c FROM
9         Application_Form__c WHERE College__c =:CollegeId];
10
11         return formlist;
12     }
13
14 }
```