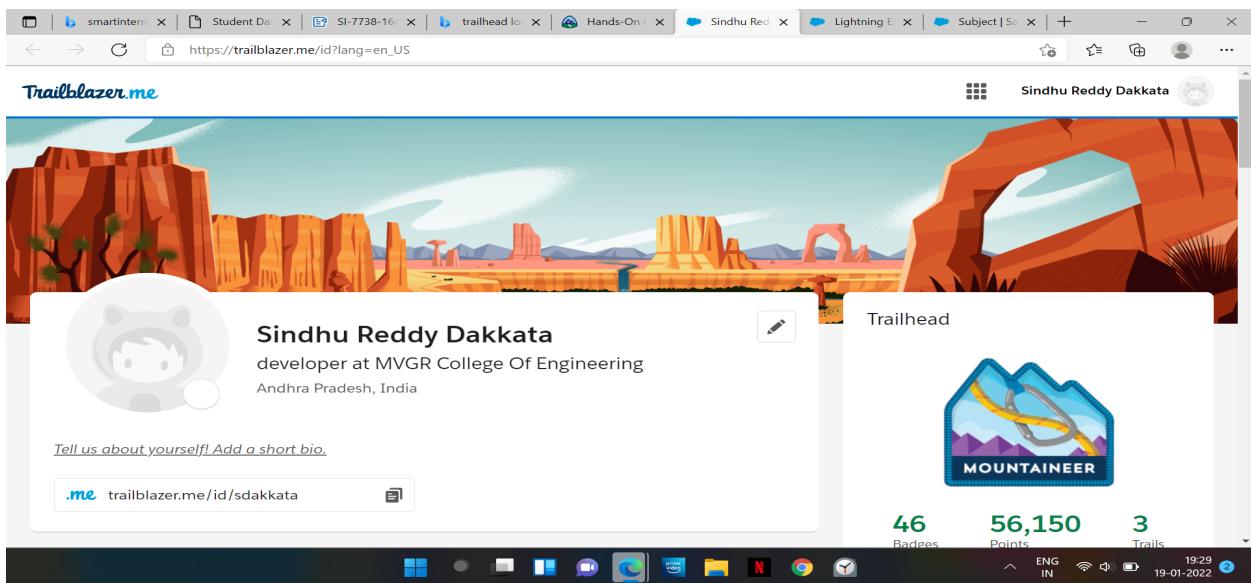


Task1

Creating Developer Account.



Task2

Custom Object Creation.

1. Creation of custom object for Application:
1.1 College

The screenshot shows the Salesforce Object Manager interface for the 'College' object. The left sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main 'Details' section displays the following information:

Field	Value
Description	
API Name	College__c
Custom	✓
Singular Label	College
Plural Label	Colleges
Enable Reports	
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

At the bottom right of the main area are 'Edit' and 'Delete' buttons. The top navigation bar includes tabs for 'Setup', 'Home', and 'Object Manager'. The browser address bar shows the URL: <https://playful-raccoon-nas05u-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01I5j000000NtQ6/Details/view>.

1.2 Application Form

The screenshot shows the Salesforce Object Manager interface for the 'Application Form' object. The left sidebar lists the same configuration options as the College object. The main 'Details' section displays the following information:

Field	Value
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

At the bottom right of the main area are 'Edit' and 'Delete' buttons. The top navigation bar includes tabs for 'Setup', 'Home', and 'Object Manager'. The browser address bar shows the URL: <https://playful-raccoon-nas05u-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01I5j000000NtQB/Details/view>.

1.3 Student

The screenshot shows the Salesforce Object Manager interface for the 'Student' object. The left sidebar lists various configuration options: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Lookup Filters. The main 'Details' section displays the following information:

Setting	Value
Description	
API Name	Student__c
Custom	✓
Singular Label	Student
Plural Label	Students
Enable Reports	
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

At the bottom right of the details section are 'Edit' and 'Delete' buttons.

1.4 Subject

The screenshot shows the Salesforce Object Manager interface for the 'Subject' object. The left sidebar lists the same configuration options as the Student object. The main 'Details' section displays the following information:

Setting	Value
Description	
API Name	Subject__c
Custom	✓
Singular Label	Subject
Plural Label	Subjects
Enable Reports	
Track Activities	
Track Field History	
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

At the bottom right of the details section are 'Edit' and 'Delete' buttons.

Task3

1. Create Fields on College Object.

The screenshot shows the Salesforce Setup interface with the URL <https://playful-raccoon-nas05u-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01I5j000000NtQ6/FieldsAndRelationships>. The page title is "College". The left sidebar shows "Fields & Relationships" selected. The main area displays a table of fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity Of Students	Capacity_of_Students__c	Picklist	College Name	
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	College Name	

The screenshot shows the Salesforce Setup interface with the URL <https://playful-raccoon-nas05u-dev-ed.lightning.force.com/lightning/setup/ObjectManager/01I5j000000NtQG/FieldsAndRelationships>. The page title is "Student". The left sidebar shows "Fields & Relationships" selected. The main area displays a table of fields:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
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(10)		
Students Name	Name	Text(80)		✓

2. Create Fields on Application Form Object.

Smartinternz student | Student Dashboard | trailhead login - Bill | Hands-On Orgs | Lightning Experience | Application Form | + - □ ×

https://playful-raccoon-nas05u-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000NtQB/FieldsAndRelationships/vi... Search Setup

Setup Home Object Manager

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

Fields & Relationships
15 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	CreatedBy	Lookup(User)		

ENG IN 19:21 19-01-2022

Smartinternz student | Student Dashboard | trailhead login - Bill | Hands-On Orgs | Lightning Experience | Application Form | + - □ ×

https://playful-raccoon-nas05u-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000NtQB/FieldsAndRelationships/vi... Search Setup

Setup Home Object Manager

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

Fields & Relationships
15 Items, Sorted by Field Label

FIELD NAME	DATA TYPE	
Guardian Name	Text(30)	
Hostel Fees	Formula (Currency)	
Last Modified By	Lookup(User)	
Looking For Hostel Stay	Checkbox	
Phone	Phone	
Ready To Join	Checkbox	
Student Name	Text(30)	

ENG IN 19:22 19-01-2022

Smartinternz student | Student Dashboard | trailhead login - Bill | Hands-On Orgs | Lightning Experience | Application Form | + - □ ×

https://playful-raccoon-nas05u-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000NtQB/FieldsAndRelationships/vi... Search Setup

Setup Home Object Manager

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

Fields & Relationships
15 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	CreatedBy	Lookup(User)		

ENG IN 19:21 19-01-2022

3. Create fields on student object.

The screenshot shows the Salesforce Object Manager interface for the 'Student' object. The left sidebar has 'Fields & Relationships' selected. The main area displays a table titled 'Fields & Relationships' with 11 items. The columns are: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The data includes:

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	CreatedBy	Lookup(User)		
Date Of Birth	DateOfBirth__c	Date		
Guardian Name	Guardian_Name__c	Text(30)		

The screenshot shows the Salesforce Object Manager interface for the 'Student' object. The left sidebar has 'Fields & Relationships' selected. The main area displays a table titled 'Fields & Relationships' with 11 items. The columns are: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The data includes:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Date Of Birth	DateOfBirth__c	Date		
Guardian Name	Guardian_Name__c	Text(30)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)	✓	
Phone	Phone__c	Phone		
Student Name	Student_Name__c	Text(10)		
Students Name	Name	Text(80)	✓	

4. Create fields on subject object.

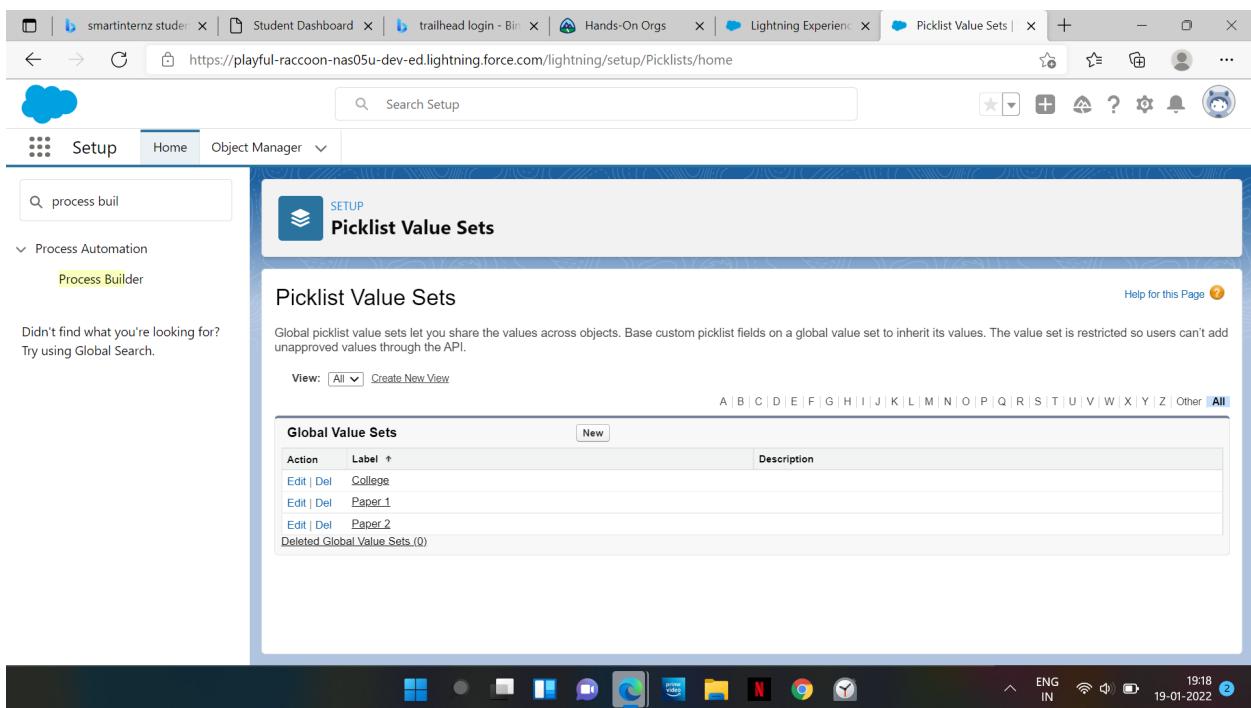
The screenshot shows the Salesforce Object Manager interface for the 'Subject' object. The left sidebar has 'Fields & Relationships' selected. The main area displays a table titled 'Fields & Relationships' with the following data:

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		▼

In the second screenshot, a new field 'Subjects Name' has been added to the table, with a value of 'Name' and a data type of 'Text(80)'.

Task4:

1. Creating global picklist value sets.



The screenshot shows the Salesforce Lightning Experience interface. The top navigation bar includes tabs for Student Dashboard, trailhead login - Bill, Hands-On Orgs, Lightning Experience, and Picklist Value Sets. The main content area is titled "Picklist Value Sets". A sidebar on the left shows a search bar and links for Process Automation and Process Builder. The main content area displays a table of Global Value Sets:

Action	Label	Description
Edit Del	College	
Edit Del	Paper 1	
Edit Del	Paper 2	
Deleted Global Value Sets (0)		

At the bottom, there's a taskbar with various application icons and system status indicators like battery level, signal strength, and date/time (19-01-2022, 19:18).

2. Create field dependencies.

The screenshot shows the Salesforce Setup interface for the 'College' object. The left sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, etc. The main content area is titled 'College Field Dependencies' and shows a table of dependencies defined between fields:

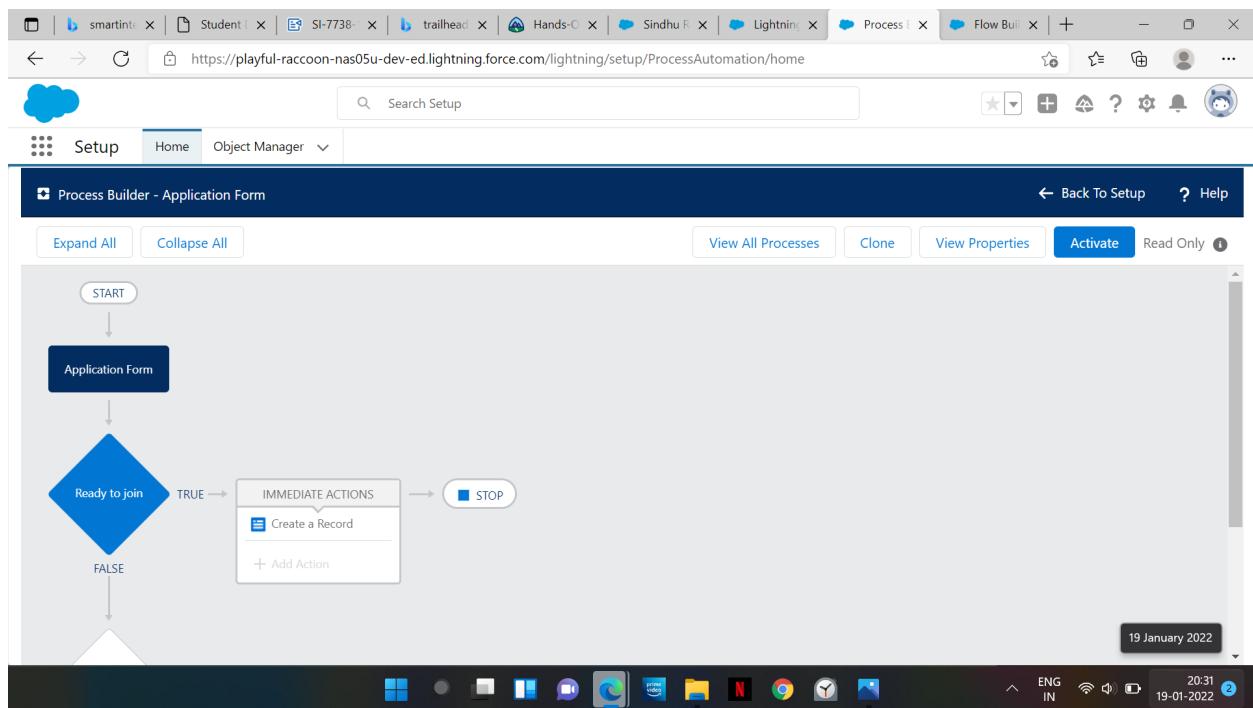
Action	Controlling Field	Dependent Field	Modified By
Edit Del	College Name	Email	Sindhu Reddy Dakkata, 1/13/2022, 5:19 AM
Edit Del	College Name	Capacity Of Students	Sindhu Reddy Dakkata, 1/13/2022, 5:20 AM

3. Creating validation rules.

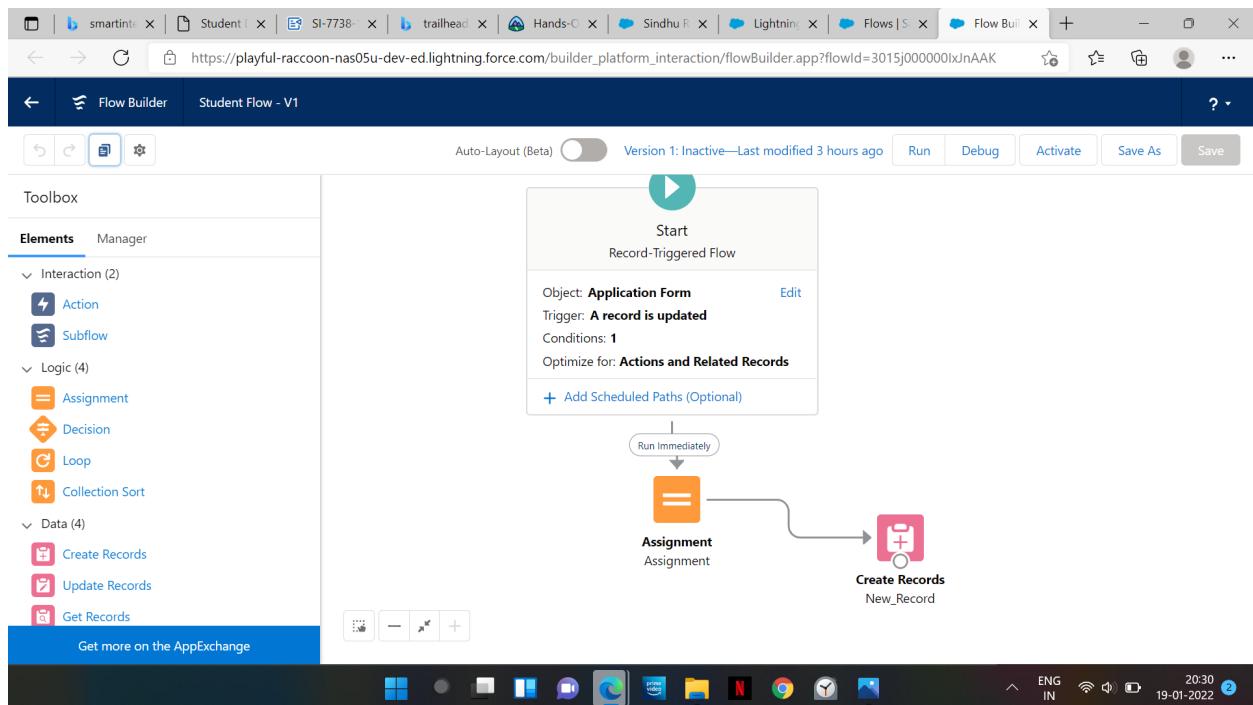
The screenshot shows the Salesforce Setup interface for the 'College' object. The left sidebar lists various setup options. The main content area is titled 'College Validation Rule' and displays the details of a validation rule named 'Same_Name':

Rule Name	Active
Same_Name	✓
Error Condition Formula	TEXT(College_Name__c) <> Name
Error Message	The college name and record info should have the same name
Description	
Created By	Sindhu Reddy Dakkata, 1/13/2022, 5:23 AM
Modified By	Sindhu Reddy Dakkata, 1/13/2022, 5:23 AM

4. Process Automation.



5. Create the student record using flow.



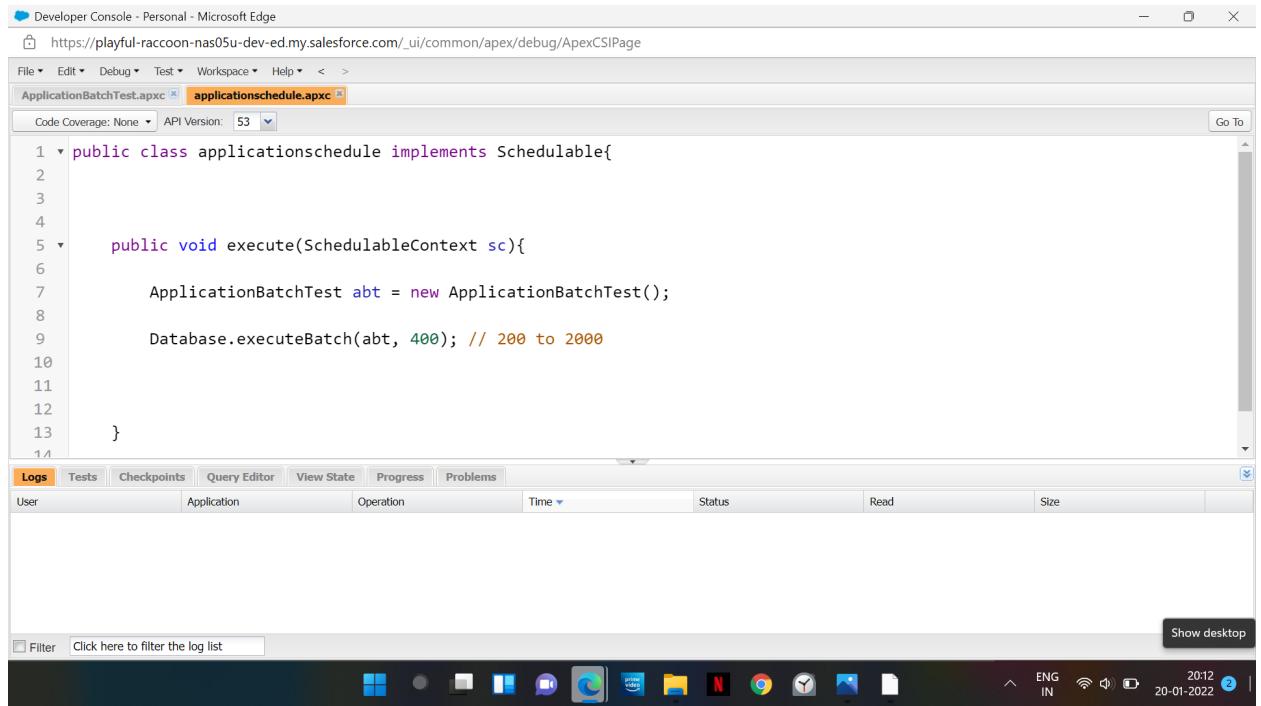
Task5

1. Create a Batch Apex for Application Form.

The screenshot shows two consecutive screenshots of the Salesforce Developer Console in Microsoft Edge. Both screenshots display the same code for a Batch Apex class named `ApplicationBatchTest.apxc`. The code implements the `Database.Batchable<sObject>` interface. It starts by defining variables for the total number of application forms and converted forms. The `start` method queries records from the `Application_Form__c` object. The `execute` method processes each record, incrementing the total converted forms counter. The `finish` method sends an email to the specified address containing the total counts.

```
1 Public class ApplicationBatchTest implements Database.Batchable<sObject>{
2
3     //start(), execute(). finish()
4     public Integer totalForms = 0; // total no of application form
5     public Integer totalConvertedForms = 0; // total no of students
6     public Database.QueryLocator start(Database.BatchableContext bc){
7         // gathers the data for you
8         String applicationQuery = 'select id, Name, Ready_To_Join__c from Application_Form__c';
9         return Database.getQueryLocator(applicationQuery);
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            totalConvertedForms++;
15        }
16    }
17    public void finish(Database.BatchableContext bc){
18        // emails ,
19        Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
20        // address, subject, content( data to sent to admins)
21        mail.setSubject(' Application form and student record data as of today ');
22        mail.setPlainTextBody(' Total no of application form records are : '+totalForms+ ' out of which no of students are : '+totalConvertedForms+'');
23        String[] emailAddess = new String[]{sindhureddy1805@gmail.com};
24        mail.setToAddresses(emailAddess);
25        Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail } );
26    }
27
28
29 }
```

2. Create a Schedular Class.

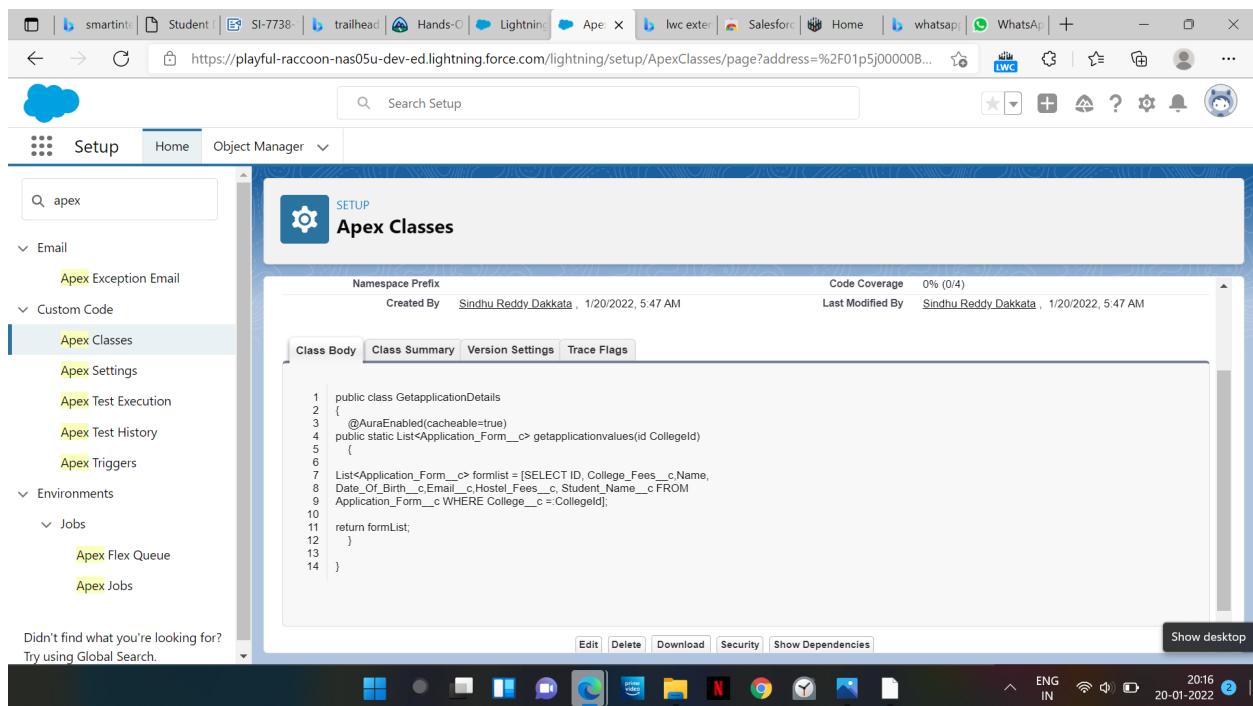


```
1 public class applicationsschedule implements Schedulable{
2
3
4
5     public void execute(SchedulableContext sc){
6
7         ApplicationBatchTest abt = new ApplicationBatchTest();
8
9         Database.executeBatch(abt, 400); // 200 to 2000
10
11
12    }
13}
```

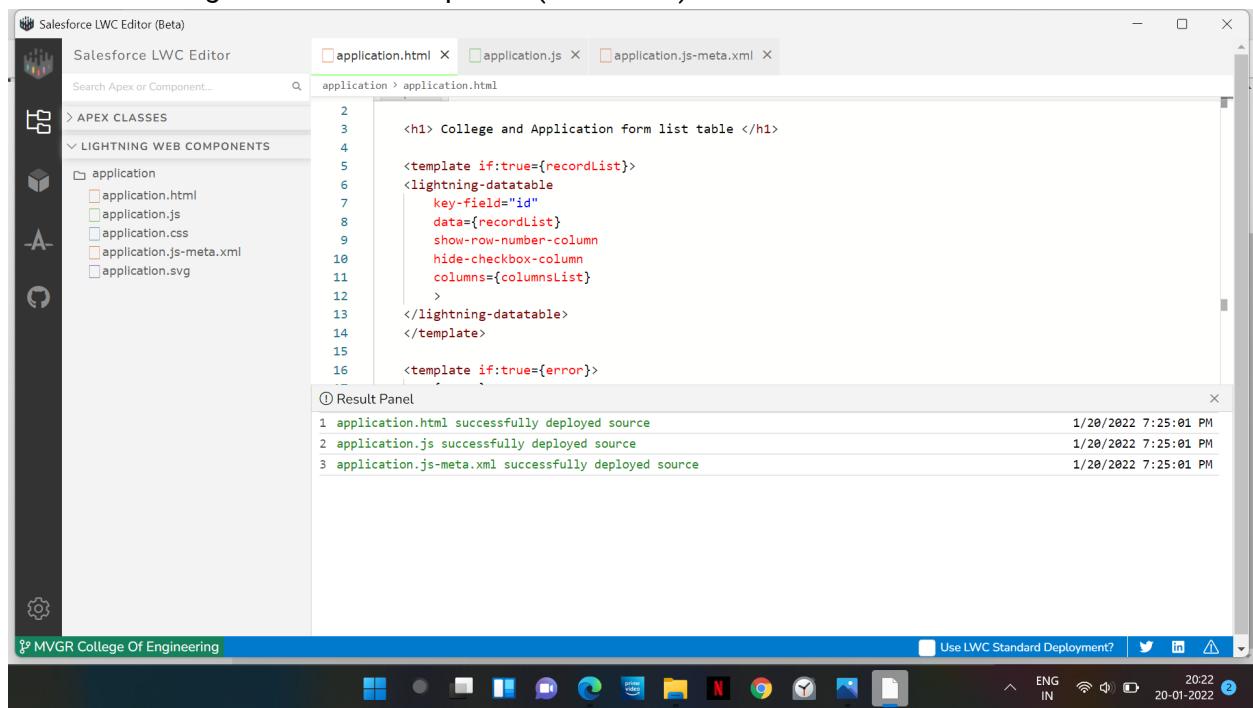
The screenshot shows the Microsoft Edge Developer Console interface. The title bar says "Developer Console - Personal - Microsoft Edge". The address bar shows the URL "https://playful-raccoon-nas05u-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". The main area displays an Apex class named "applicationsschedule.apxc". The code implements the "Schedulable" interface and contains a single method "execute" which creates a new instance of "ApplicationBatchTest", initializes it with 400 records, and then executes the batch. Below the code editor is a navigation bar with tabs: Logs (selected), Tests, Checkpoints, Query Editor, View State, Progress, and Problems. A status bar at the bottom shows various system icons and the date/time "2012 20-01-2022".

Task6

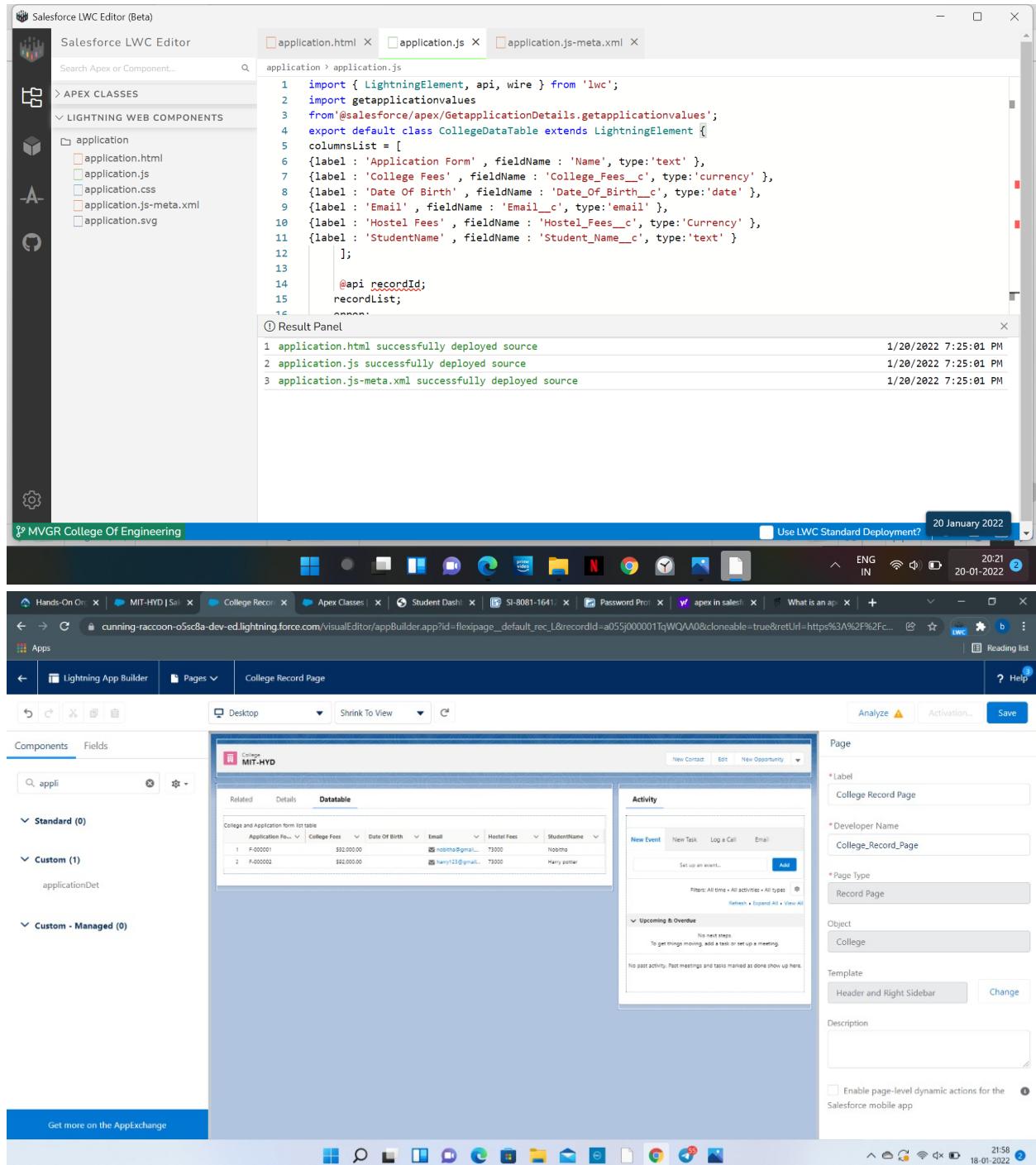
1. Create college data table component(Apex Class).



2. Create College Data table Component(HTML File).



3. Create College Table Component(Javascript File).



4. Create College Data Table Component.

