

Project Title:

College Management Application

Day 1 :

Topic: Create Salesforce Developer Org To Get Started

Milestone / Activities:1)Creating Developer Account

2)Account Activation

3)Login To Your Salesforce Account

Detailed Description:

1)Creating Developer Account

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

Click on sign up after filling these.

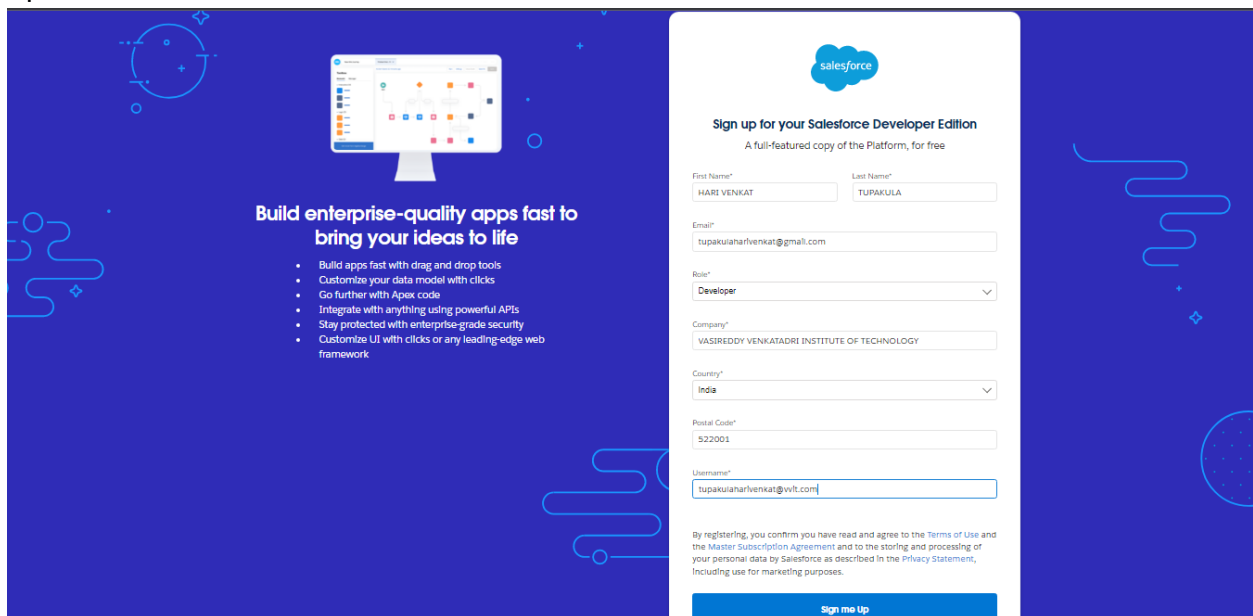
2)Account Activation

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.

3)Login To Your Salesforce Account

- 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 :



Build enterprise-quality apps fast to bring your ideas to life

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web framework

Sign up for your Salesforce Developer Edition
A full-featured copy of the Platform, for free

First Name*
HARI VENKAT

Last Name*
TUPAKULA

Email*
tupakulaharivenkat@gmail.com

Role*
Developer

Company*
VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY


Country*
India


Postal Code*
522001

Username*
tupakulaharivenkat@vvit.com

By registering, you confirm you have read and agree to the [Terms of Use](#) and the [Master Subscription Agreement](#) and to the storing and processing of your personal data by Salesforce as described in the [Privacy Statement](#), including use for marketing purposes.

Sign me Up






Almost there...

Please check your email to confirm your account.

Wondering where to start?
Learn Salesforce Platform basics on [Trailhead](#)

Build enterprise-quality apps fast to bring your ideas to life

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web framework



Setup

Home

Object Manager

Setup Home

Service Setup Assistant

Multi-Factor Authentication Assistant

Release Updates

Lightning Experience Transition Assistant

New Salesforce Mobile App QuickStart

Lightning Usage

Optimizer

ADMINISTRATION

> Users

> Data

> Email


PLATFORM TOOLS

> Apps

> Feature Settings

SETUP


Home



Get Started with Einstein Bots

Launch an AI-powered bot to automate your digital connections.


[Get Started](#)



Mobile Publisher

Use the Mobile Publisher to create your own branded mobile app.

[Learn More](#)



Real-time Collaborative Docs

Transform productivity with collaborative docs, spreadsheets, and slides inside Salesforce.

[Get Started](#)

Most Recently Used

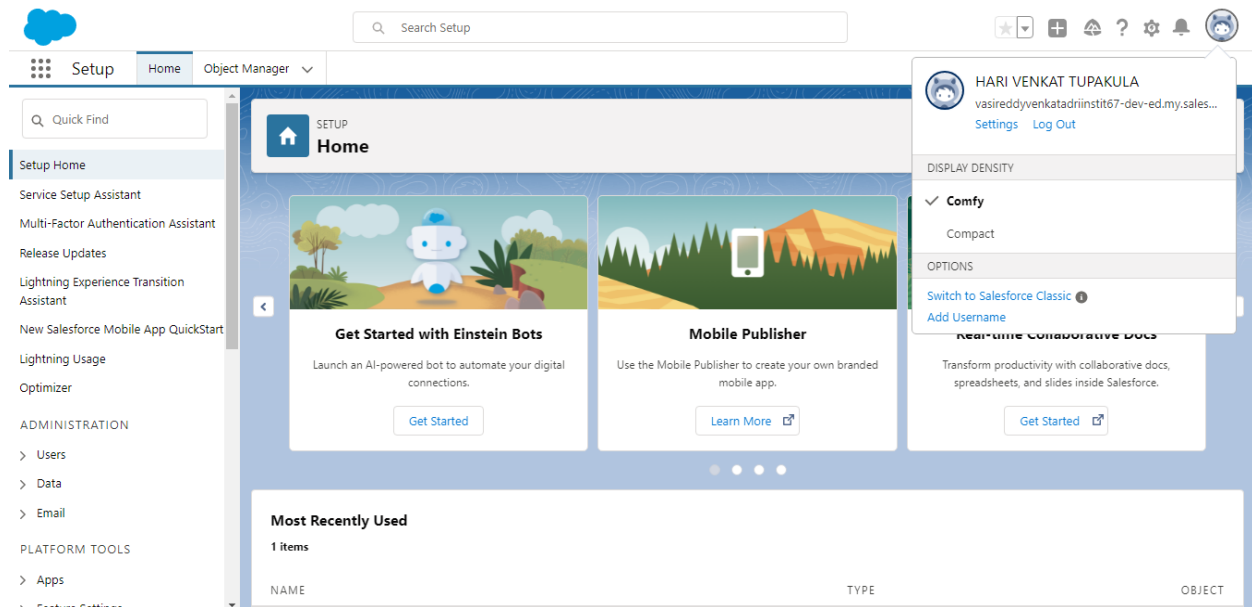
1 Items

NAME	TYPE	OBJECT
------	------	--------

The new way to learn

Check out Learning Paths, where your users can learn new skills and earn Trailhead badges. To get started, click Go to Learning Home in the side panel.

Try It Out



Day 2 :

Topic: Custom Object Creation

Milestone / Activities:

- 1) Create The Custom Objects For The Application
- 2) Create Fields On College Object
- 3) Create Fields On Application Form Object
- 4) Create Fields On Student Object
- 5) Create Fields On Subject Object

Detailed Description:

1) Create The Custom Objects For The Application

Duration: 0.5 Hrs

Skill Tags:

Create the following Custom Objects For the Application.

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

2) Create 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
Capacity Of Students	Picklist		500-1000, 1000-2500, 2500-6000, 6000-10000

3) Create the following fields on the application form object.

Field Name	Data Type	Required	Values
Application Form ID	Autonumber <u>Auto number</u>		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	

4) Create the following fields on the 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	

5) Create 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)		

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface for the 'College' object in the Object Manager. The left sidebar contains a navigation menu with options: Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, and Related Links and Filters. The main content area is titled 'Details' and includes a description field, API Name (College__c), Custom checkbox (checked), Singular Label (College), Plural Label (Colleges), Enable Reports checkbox (checked), Track Activities checkbox (checked), Track Field History checkbox (checked), Deployment Status (Deployed), and Help Settings (Standard salesforce.com Help Window). The top navigation bar includes Setup, Home, and Object Manager tabs, along with a search bar and various utility icons.



Search Setup



SetupHomeObject 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

Search Layouts

Details

EditDelete

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



Search Setup



SetupHomeObject Manager

SETUP > OBJECT MANAGER

Students

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Details

EditDelete

Description

API Name

Students__c

Custom

✓

Singular Label

Students

Plural Label

Students

Enable Reports

✓

Track Activities

✓

Track Field History


✓

Deployment Status








Deployed

Help Settings

Standard salesforce.com Help Window



Search Setup



SetupHomeObject Manager

SETUP > OBJECT MANAGER

Subjects

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Details

Description

API Name

Subjects__c

Custom

✓

Singular Label

Subjects

Plural Label

Subjects

Enable Reports

✓

Track Activities

✓

Track Field History

✓


Deployment Status

Deployed








Help Settings

Standard salesforce.com Help Window

EditDelete



All Search Colleges and more...



College ManagementCollegesApplication FormsStudentsSubjects

Colleges

Recently Viewed

NewImportChange Owner

0 items • Updated a few seconds ago

Search this list...

College Name

You haven't viewed any Colleges recently.
Try switching list views.

Setup

Home

Object Manager

College

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Search Layouts for Salesforce Classic

Restriction Rules

Fields & Relationships

9 Items, Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

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		
Created By	CreatedById	Lookup(User)		
Email	Email__c	Picklist	College Name	
Hostel Fees	Hostel_Fees__c	Currency(6, 2)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Record Info	Name	Text(80)		✓

Setup

Home

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

Search Layouts

Search Layouts for Salesforce Classic

Restriction Rules

Triggers

Validation Rules

Fields & Relationships

14 Items, Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
Application Form ID	Name	Auto Number		✓
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)		

Setup

Home

Object Manager

Search Setup

Star

Plus

Refresh

Help

Settings

Notifications

Avatar

Setup > OBJECT MANAGER

Students

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Search Layouts for Salesforce Classic

Restriction Rules

Triggers

Validation Rules

Fields & Relationships

10 Items. Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

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		
Students Name	Name	Text(80)		✓

Setup

Home

Object Manager

Search Setup

Star

Plus

Refresh

Help

Settings

Notifications

Avatar

Setup > OBJECT MANAGER

Subjects

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

7 Items. Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

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(Students)		✓
Subject ID	Name	Auto Number		✓

Day 3 :

Topic: Adding Business Logic To Application

Milestone / Activities:

- 1) Creating Global Picklist Value Sets
- 2) Creating Field Dependencies
- 3) Creating Validation Rules
- 4) Process Automation
- 5) Create The Student Record Using Flow

Detailed Description:

1) Creating Global Picklist Value Sets

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

a) College

Picklist Value Name	Values
College <u>College</u>	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

2)Creating Field Dependencies

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

3)Creating Validation Rules

1. Create 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. Create 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 )
    )
)
```

4)Process Automation

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. Please follow the below screenshot.

Upload the Screenshot the Milestone / Activities :

1)Creating Global Picklist Value Sets

Global Value Set

Global Value Set Detail

Information

Label: College Name
Name: College_Name
Description:

Picklist Values Used

Active and inactive picklist values: 6 (1,000 max)

Values

Action	Values	API Name	Default	Chart Colors	Modified By
Edit Del Deactivate	MIT-BLR	MIT-BLR	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 1:04 AM
Edit Del Deactivate	MIT-HYD	MIT-HYD	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 1:04 AM
Edit Del Deactivate	MIT-MUM	MIT-MUM	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 1:04 AM
Edit Del Deactivate	MIT-MAA	MIT-MAA	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 1:04 AM
Edit Del Deactivate	MIT-CCU	MIT-CCU	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 1:04 AM
Edit Del Deactivate	MIT-DEL	MIT-DEL	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 1:04 AM

Inactive Values

No Inactive Values values defined.

Fields Where Used

Field Label	Object	Data Type	Controlling Field
College Name	College	Picklist	

Global Value Set

Global Value Set Detail

Information

Label: Paper 1
Name: Paper_1
Description:

Picklist Values Used

Active and inactive picklist values: 4 (1,000 max)

Values

Action	Values	API Name	Default	Chart Colors	Modified By
Edit Del Deactivate	APEX	APEX	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 6:38 AM
Edit Del Deactivate	JAVA	JAVA	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 6:38 AM
Edit Del Deactivate	C	C	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 6:38 AM
Edit Del Deactivate	C++	C++	<input type="checkbox"/>	Assigned dynamically	HARSH VIKRANT TUPAKULA 1/5/2022, 6:38 AM

Inactive Values

No Inactive Values values defined.

Fields Where Used

Field Label	Object	Data Type	Controlling Field
Paper 1	Subject	Picklist	

[Setup](#)

[Home](#)

[Object Manager](#)

Data

[Picklist Settings](#)

[State and Country/Territory](#)

[Picklists](#)

Objects and Fields

[Picklist Value Sets](#)

SETUP

Picklist Value Sets

Picklist Value Sets

[Help for this Page](#)

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.

View: All [Create New View](#)

Global Value Sets

New

Action	Label ↑	Description
Edit Del	College Name	
Edit Del	Paper_1	
Edit Del	Paper2	
Deleted Global Value Sets (0)		

Setup | Home | **Object Manager**

SETUP > OBJECT MANAGER
College

Details

- Fields & Relationships**
- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters
- Search Layouts
- Search Layouts for Salesforce Classic
- Restriction Rules
- Triggers
- Validation Rules

Edit Field Dependency

Help for This Page

Save Cancel Preview

	Controlling Field	College Name	Dependent Field	Email	
▼ Instructions					
<ul style="list-style-type: none"> Double click on a cell to toggle its visibility for the Controlling Field value shown in the column heading. To change multiple cells at once, select multiple cells and then click the Include Values or Exclude Values button to change the visibility of all selected cells at once. Use SHIFT + click to select a range of adjacent cells. Use CTRL + click to select multiple cells that are not adjacent. Use the Preview button to test the results. 					
Click button to include or exclude selected values from the dependent picklist:					
Include Values Exclude Values					
	MIT@BLR	MIT@HYD	MIT@MUM	MIT@MAA	MIT@COU
College Name:					
Email:	blr@mit.co.in	hyd@mit.co.in	mum@mit.co.in	maa@mit.co.in	cou@mit.co.in
	hyd@mit.co.in	hyd@mit.co.in	hyd@mit.co.in	hyd@mit.co.in	hyd@mit.co.in
	mum@mit.co.in	mum@mit.co.in	mum@mit.co.in	mum@mit.co.in	mum@mit.co.in
	maa@mit.co.in	maa@mit.co.in	maa@mit.co.in	maa@mit.co.in	maa@mit.co.in
	cou@mit.co.in	cou@mit.co.in	cou@mit.co.in	cou@mit.co.in	cou@mit.co.in
	dab@mit.co.in	dab@mit.co.in	dab@mit.co.in	dab@mit.co.in	dab@mit.co.in

Setup

Home

Object Manager

Search Setup

Setup > OBJECT MANAGER

College

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

Search Layouts for Salesforce Classic

Restriction Rules

Triggers

Validation Rules

Edit Field Dependency

Save Cancel Preview

Controlling Field
College Name
Dependent Field
Capacity Of Students

Instructions

- Double click on a cell to toggle its visibility for the Controlling Field value shown in the column heading.
- To change multiple cells at once, select multiple cells and then click the Include Values or Exclude Values button to change the visibility of all selected cells at once.
- Use Shift + click to select a range of adjacent cells. Use CTRL + click to select multiple cells that are not adjacent.
- Use the Preview button to test the results.

Legend

Excluded Value

Included Value

Click button to include or exclude selected values from the dependent picklist:

Include Values Exclude Values

College Name:	MIT-BLR	MIT-HYD	MIT-MUM	MIT-TATA	MIT-COL
Capacity Of Students:	500-1000	500-1000	500-1000	500-1000	500-1000
	1000-2500	1000-2500	1000-2500	1000-2500	1000-2500
	2500-6000	2500-6000	2500-6000	2500-6000	2500-6000
	6000-10000	6000-10000	6000-10000	6000-10000	6000-10000

Showing Columns: 1 - 5 (of 6) < Previous | Next > | View All | Go To

Click button to include or exclude selected values from the dependent picklist:

Include Values Exclude Values

Save Cancel Preview

3)Creating Validation Rules

Setup

Home

Object Manager

Search Setup

Setup > OBJECT MANAGER

College

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

College Validation Rule

Back to College

Help for this Page

Validation Rule Detail

Edit Clone

Rule Name
College_Name_Similar
Active
Active

Error Condition Formula
TEXT(College_Name__c) <> Name

Error Message
Please use the college name in Record Info
Error Location
Top of Page

Description

Created By
HARI VENKAT.TUPAKULA, 1/5/2022, 8:45 AM
Modified By
HARI VENKAT.TUPAKULA, 1/5/2022, 8:45 AM

Edit Clone

Setup 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

Search Layouts

Search 1 minute ago

Application Form Validation Rule

[Back to Application Form](#) [Help for this Page](#)

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

Rule Name: student_record 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: stop any modification on the application form once a student record is created. Error Location: Top of Page

Description:

Created By: HARI VENKAT TUPAKULA, 1/6/2022, 9:42 PM Modified By: HARI VENKAT TUPAKULA, 1/6/2022, 9:42 PM

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

DAY-4

4) Process Automation

Setup Search Setup

Setup Home Object Manager

Process Builder - Application Form [Back To Setup](#) [Help](#)

[Expand All](#) [Collapse All](#) [View All Processes](#) [Clone](#) [Edit Properties](#) [Activate](#)

START

Application Form

Ready to Join

TRUE → IMMEDIATE ACTIONS → STOP

FALSE → + Add Criteria → IMMEDIATE ACTIONS → STOP

IMMEDIATE ACTIONS

Create Record

+ Add Action

IMMEDIATE ACTIONS

+ Add Action

STOP

Choose Object and Specify When to Start the Process

Object * [?](#)

Application Form

Start the process *

☐ only when a record is created

☒ when a record is created or edited

> Advanced

Setup

Home

Object Manager

Search Setup

Process Builder - Application Form

Expand AllCollapse All

View All ProcessesCloneEdit PropertiesActivate

START

Application Form

Ready to Join

TRUE

IMMEDIATE ACTIONS

Create Record

STOP

FALSE

+ Add Criteria

TRUE

IMMEDIATE ACTIONS

+ Add Action

STOP

FALSE

STOP

Define Criteria for this Action Group

Criteria Name*
Ready to Join

Criteria for Executing Actions*
☒ Conditions are met
☐ Formula evaluates to true
☐ No criteria—just execute the actions!

Set Conditions

Field*	Operator*	Type*	Value*	
1	[Application_Fo... Q	Equals	String	false

+ Add Row

Conditions*
☒ All of the conditions are met (AND)
☐ Any of the conditions are met (OR)
☐ Customize the logic

> Advanced

SaveCancelDelete

Setup

Home

Object Manager

Search Setup

Process Builder - Application Form

Expand AllCollapse All

View All ProcessesCloneEdit PropertiesActivate

START

Application Form

Ready to Join

TRUE

IMMEDIATE ACTIONS

Create Record

STOP

FALSE

+ Add Criteria

TRUE

IMMEDIATE ACTIONS

+ Add Action

STOP

FALSE

STOP

Create a Record

Action Name*
Create Record

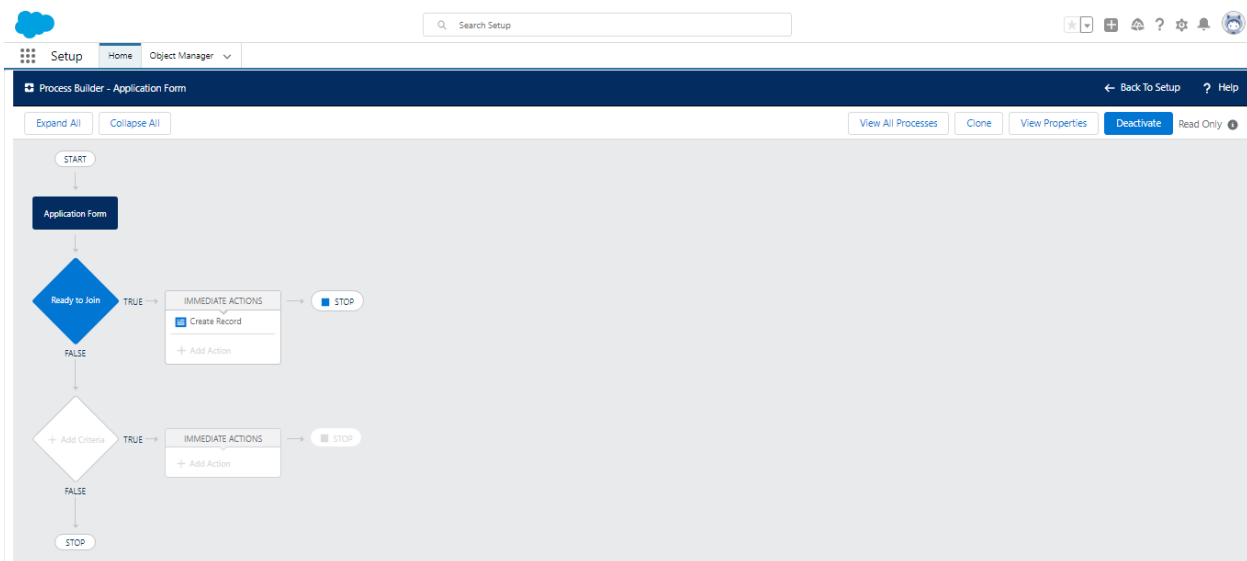
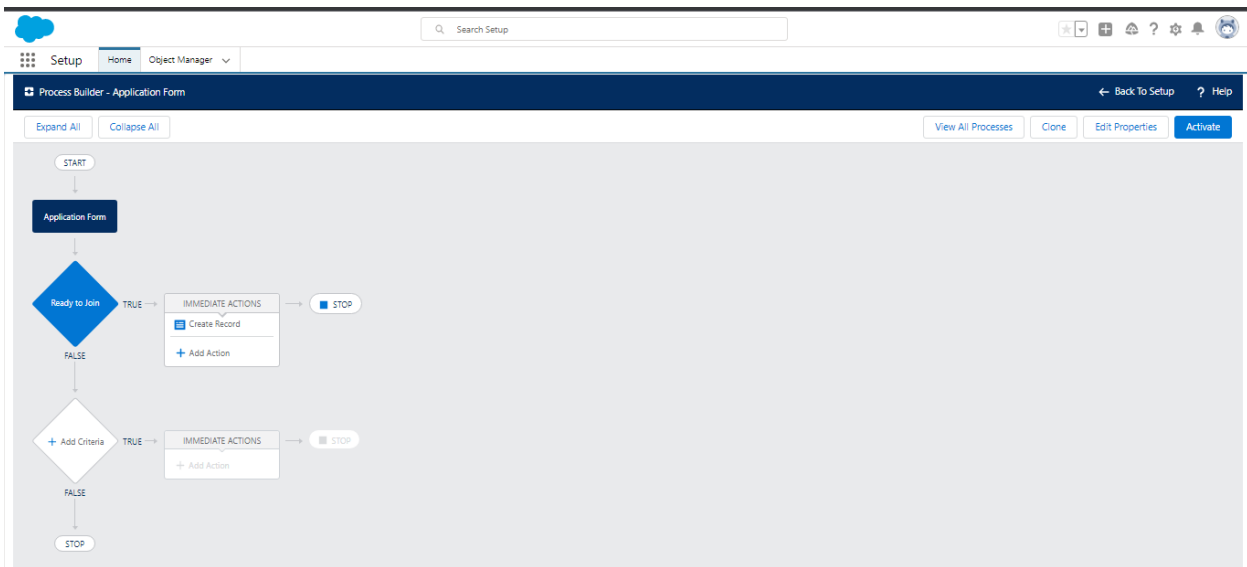
Record Type*
Students

Set Field Values

Field*	Type*	Value*
Address	Field Reference	[Application_Form_c]... Q
Date Of Birth	Field Reference	[Application_Form_c]... Q
Guardian Name	Field Reference	[Application_Form_c]... Q
Phone	Field Reference	[Application_Form_c]... Q
Students Name	Field Reference	[Application_Form_c]... Q
Application Form	Field Reference	[Application_Form_c]Id Q

+ Add Row

SaveCancelDelete

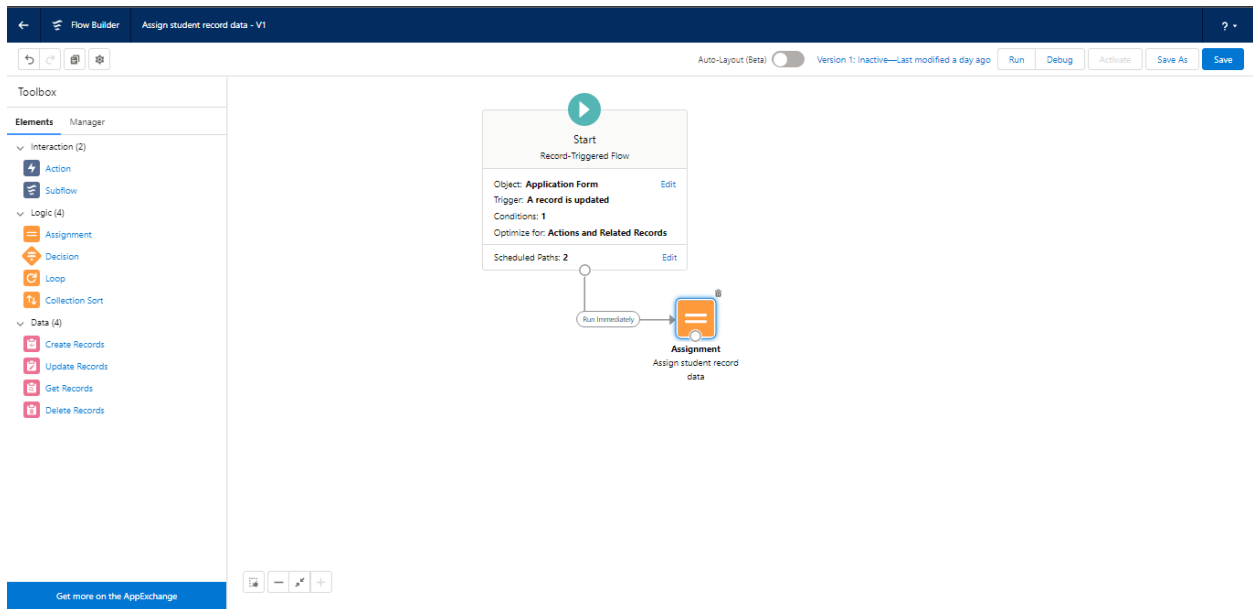
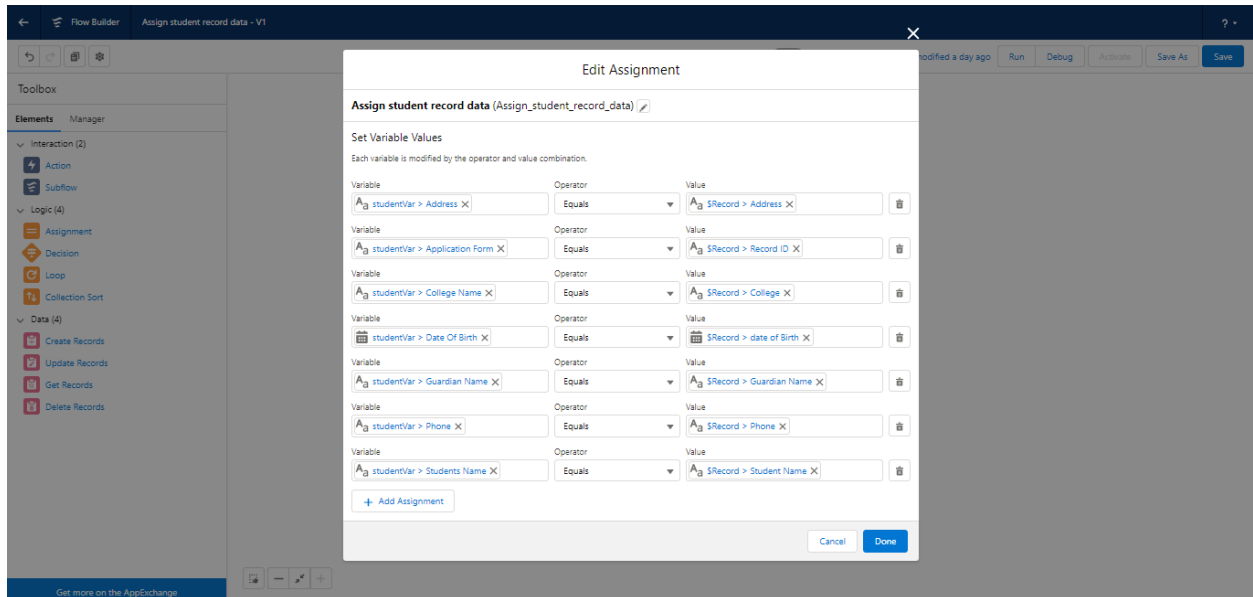


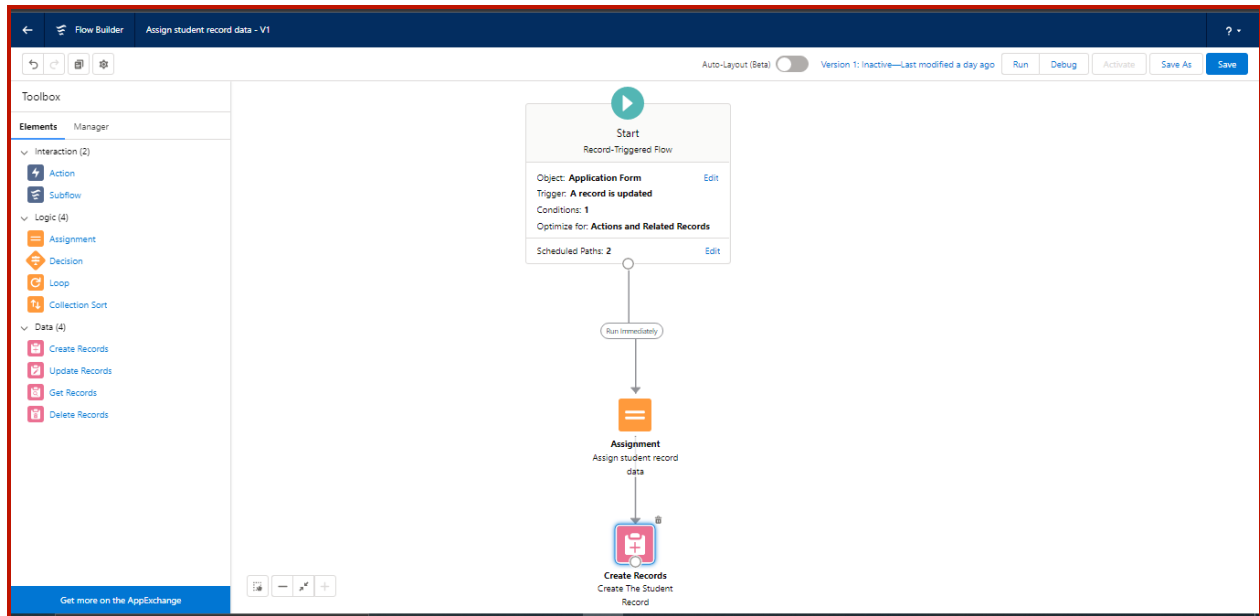
DAY-5

5) Create The Student Record Using Flow

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.
6. Now add create records.

Upload the Screenshot the Milestone / Activities :





Flow Builder: Assign student record data - V1

Select Elements Auto-Layout (Beta) Version 1: Inactive—Last modified 15 hours ago Run Debug Activate Save As Save

Toolbox

Manager

Search this flow...

New Resource

RESOURCES

- Record (Single) Variables (1)
 - studentVar

ELEMENTS

- Assignments (1)
 - Assign_student_record_data
- Create Records (1)
 - Create_The_Student_Record

Edit Create Records

Create Salesforce records using values from the flow.

* Label
Create Student Record

* API Name
Create_Student_Record

Description

How Many Records to Create

☒ One
☐ Multiple

How to Set the Record Fields

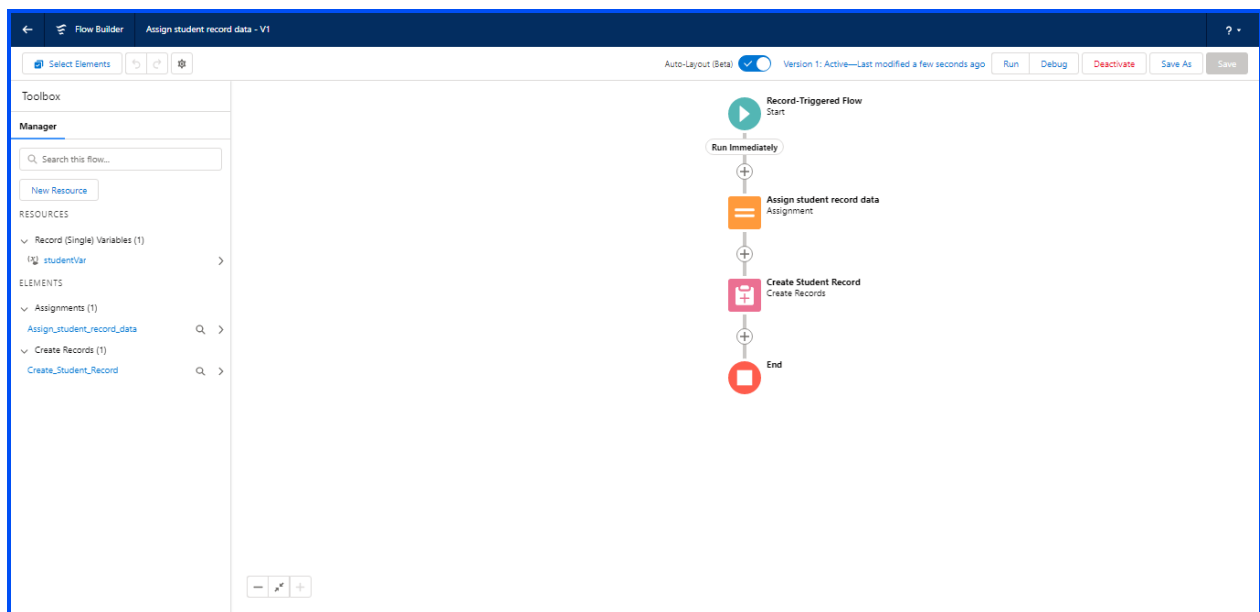
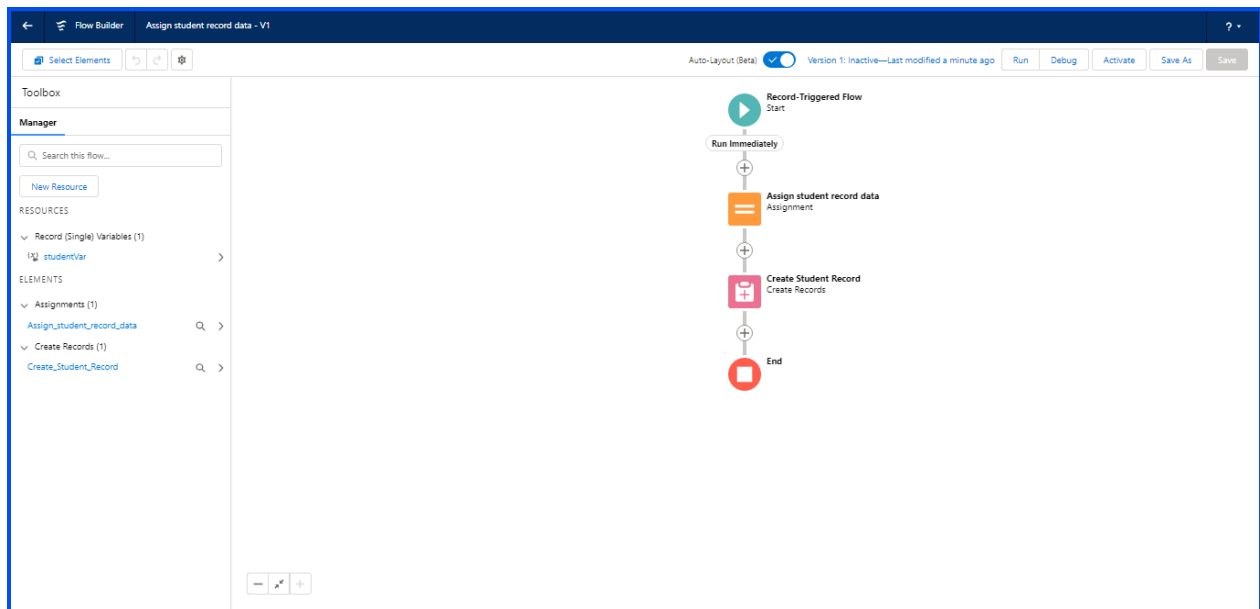
☒ Use all values from a record
☐ Use separate resources, and literal values

Create a Record from These Values

* Record
studentVar

Make sure that ID is blank. After the flow creates the records, ID is set to match the record that was created.

Cancel Done



Day 6 :

Topic: Batch Apex

Milestone / Activities:

- 1) Create A Batch Apex For Application Form
- 2) Create A Scheduler Class

Detailed Description:

1) Batch Apex

Batch Apex is used to run large jobs (think thousands or millions of records!) that would exceed normal processing limits. Using Batch Apex, you can process records asynchronously in batches (hence the name, "Batch Apex") to stay within platform limits. If you have a lot of records to process, for example, data cleansing or archiving, Batch Apex is probably your best solution.

Syntax Of Batch Apex

```
public class MyBatchClass implements Database.Batchable<sObject> {  
    public (Database.QueryLocator | Iterable<sObject>) start(Database.BatchableContext bc) {  
        // collect the batches of records or objects to be passed to execute  
    }  
    public void execute(Database.BatchableContext bc, List<P> records){  
        // process each batch of records  
    }  
    public void finish(Database.BatchableContext bc){  
        // execute any post-processing operations  
    }  
}
```

2) Create A Batch Apex For Application Form

1. From the developer console create a new apex class and enter 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[] emailAddress = new String[]{ 'your email address' };
    mail.setToAddresses(emailAddress);
    Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail } );
}
}

```

3) Create A Scheduler Class

1. From the developer console create a new apex class and enter 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 search for apex class and click on schedule jobs and fill the details as per your requirements.

Upload the Screenshot the Milestone / Activities :

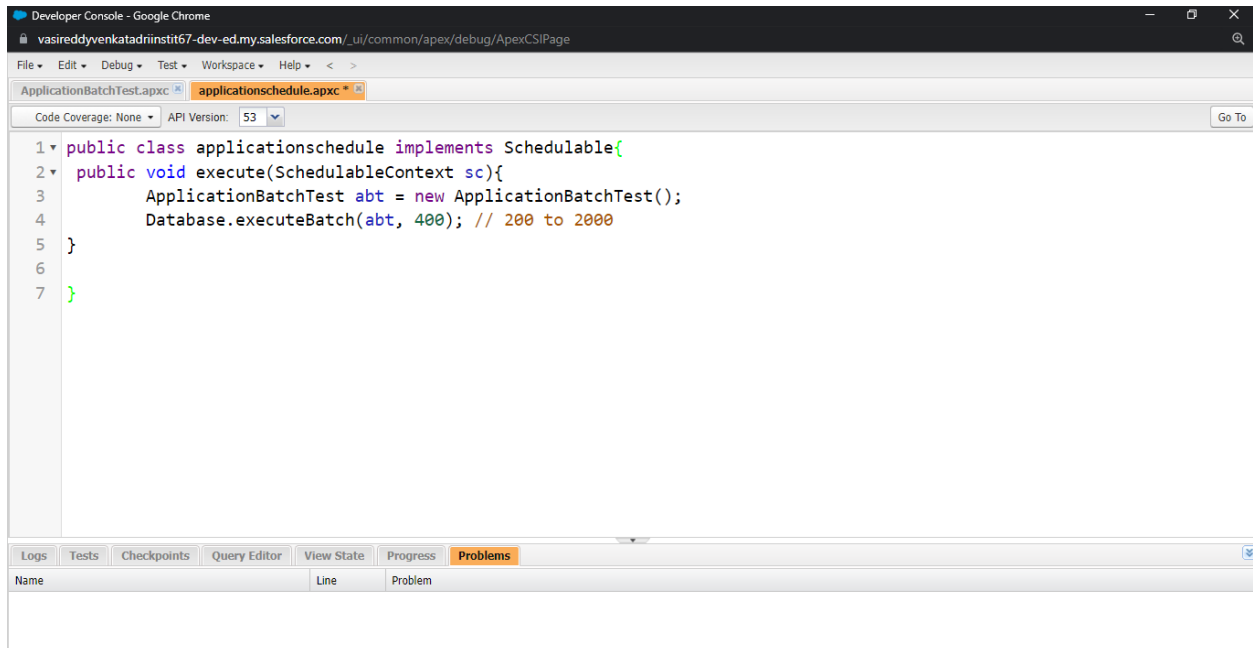
1) Create A Batchapex For Application Form

```

1  public class ApplicationBatchTest implements Database.Batchable<Sobject>, Database.Stateful{
2      public Integer totalForms=0;
3      public Integer totalConvertedForms=0;
4      public Database.QueryLocator start(Database.BatchableContext bc){
5          String applicationQuery='select id, Name, Ready_To_Join__c from Application_c';
6          return Database.getQueryLocator(applicationQuery);
7      }
8      public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
9          for(Application_Form__c af : formList){
10             totalForms++;
11             if(af.Ready_To_Join__c){
12                 totalConvertedForms++;
13             }
14         }
15     }
16     public void finish(Database.BatchableContext bc){
17         Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
18         mail.setSubject(' Application form and student record data as of today ');
19         mail.setPlainTextBody(' Total no of application form records are : '+totalForms+ ' out of which no of students as per today : '+totalConvertedForms);
20         String[] emailAddress = new String[]{'your email address'};
21         mail.setToAddresses(emailAddress);
22         Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail } );
23     }
24 }

```

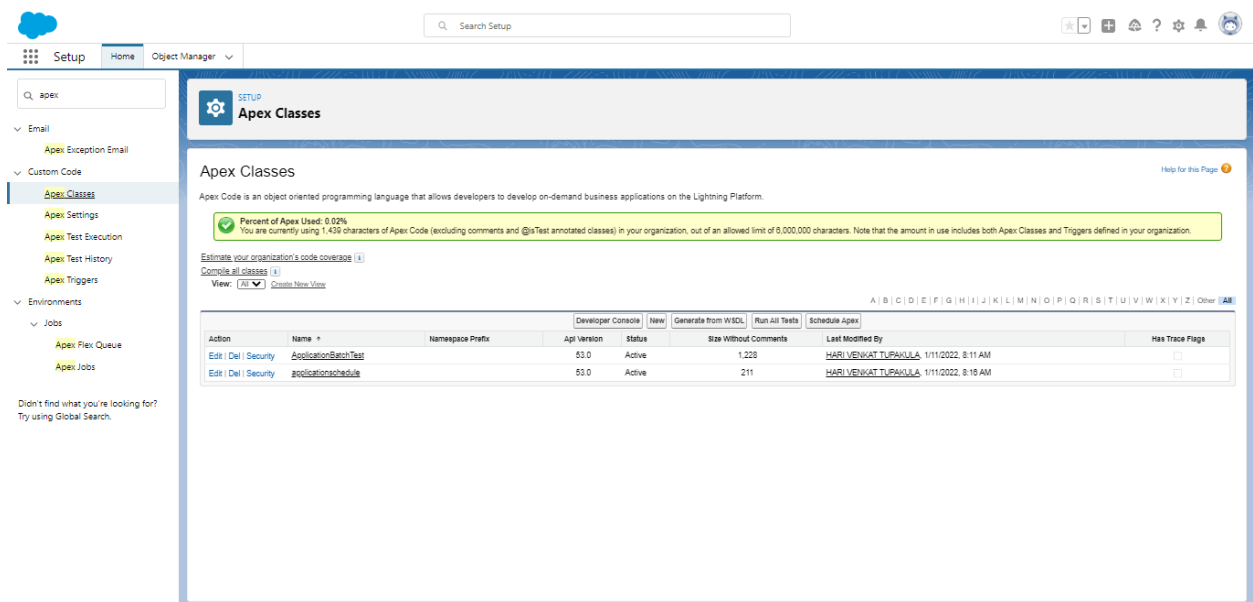

2) Create A Scheduler Class



The screenshot shows the Salesforce Developer Console with the Apex code for the `applicationschedule` class. The code is as follows:

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

The console also shows the file `ApplicationBatchTest.apxc` and the API version `53`. The bottom pane shows the `Problems` tab.



The screenshot shows the Salesforce Setup page with the `Apex Classes` section selected. The page displays the following information:

- Apex Classes** section header.
- A message indicating that the organization is using 0.02% of the allowed limit of 6,000,000 characters for Apex Code.
- A table listing the Apex Classes in the organization.

Action	Name	Namespace Prefix	Developer Console	Api Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit Del Security	ApplicationBatchTest		New	53.0	Active	1,229	HARI VENKAT TUPAKULA 1/11/2022, 8:11 AM	<input type="checkbox"/>
Edit Del Security	applicationschedule		New	53.0	Active	211	HARI VENKAT TUPAKULA 1/11/2022, 8:16 AM	<input type="checkbox"/>

Setup

Home

Object Manager

Q Search Setup

Q apex

Email

Apex Exception Email

Custom Code

Apex Classes

Apex Settings

Apex Test Execution

Apex Test History

Apex Triggers

Environments

Jobs

Apex Flex Queue

Apex Jobs

Didn't find what you're looking for?

Try using Global Search.

Apex Classes

Schedule Apex

Schedule an Apex class that implements the 'Schedulable' interface to be automatically executed on a weekly or monthly interval.

Save

Cancel

Job Name

Application Form Job

Apex Class

applicationsschedule

Schedule Apex Execution

Frequency

Weekly

Monthly

Recurrs every week on

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Start

1/11/2022

End

12/24/2022

Preferred Start Time

10:00 PM

Exact start time will depend on job queue activity

Save

Cancel

Setup

Home

Object Manager

Q Search Setup

Q apex

Email

Apex Exception Email

Custom Code

Apex Classes

Apex Settings

Apex Test Execution

Apex Test History

Apex Triggers

Environments

Jobs

Apex Flex Queue

Apex Jobs

Didn't find what you're looking for?

Try using Global Search.

Apex Jobs

Click here to go to the new batch jobs page

Monitor the status of all Apex jobs, and optionally, abort jobs that are in progress.

View: All

Create New View

Action	Submitted Date	Job Type	Status	Status Detail	Total Batches	Batches Processed	Failures	Submitted By	Completion Date	Apex Class	Apex Method	Apex Job ID
	1/11/2022, 8:26 AM	Scheduled Apex	Queued		0	0	0	TUPRUVULA HARIVENKAT		applicationsschedule		707500000eNvPg

Day 7 :

Topic: Lightning Web Components

Milestone / Activities:

- 1) Create College DataTable Component(APEX CLASS)
- 2) Create College DataTable Component (HTML FILE)
- 3) Create College DataTable Component(JAVA SCRIPT FILE)
- 4) Create College DataTable Component(META FILE)

Detailed Description:

- 1) Create 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 .

Create an Apex Class With The Required Functionality

```
public class GetapplicationDetails
{
    @AuraEnabled(cacheable=true)
    public static List<ApplicationForm__c> getapplicationvalues(id
    CollegeId)
    {

        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 =:CollegeId];
```

```
return formList;
    }

}
```

2) Create College DataTable Component (HTML FILE)

Create 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}
    >
    </lightning-datatable>
    </template>

    <template if:true={error}>
        {error}
    </template>
</template>
```

3) Create College DataTable Component (JAVA SCRIPT FILE)

After the creation of the Html file create the following js 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;
    }
  }
}

```

4) Create College DataTable Component(META FILE)

Change the Meta File as follows:

```
<?xml version="1.0"?>
```

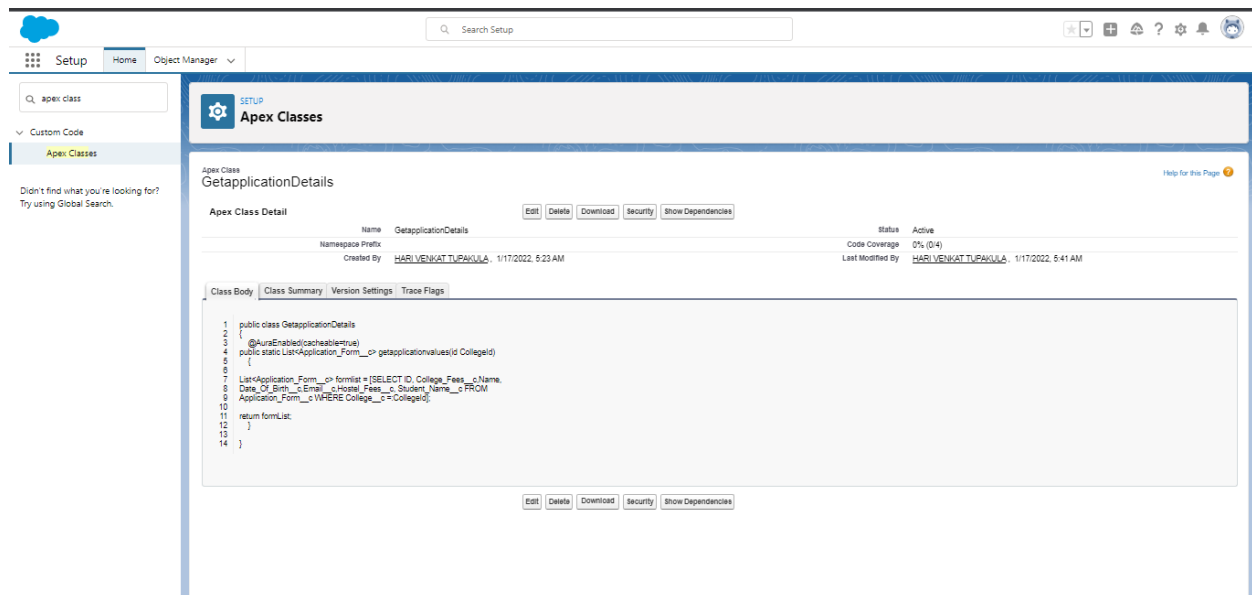
```

<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>

```

Upload the Screenshot the Milestone / Activities :

1) Create College DataTable Component(APEX CLASS)



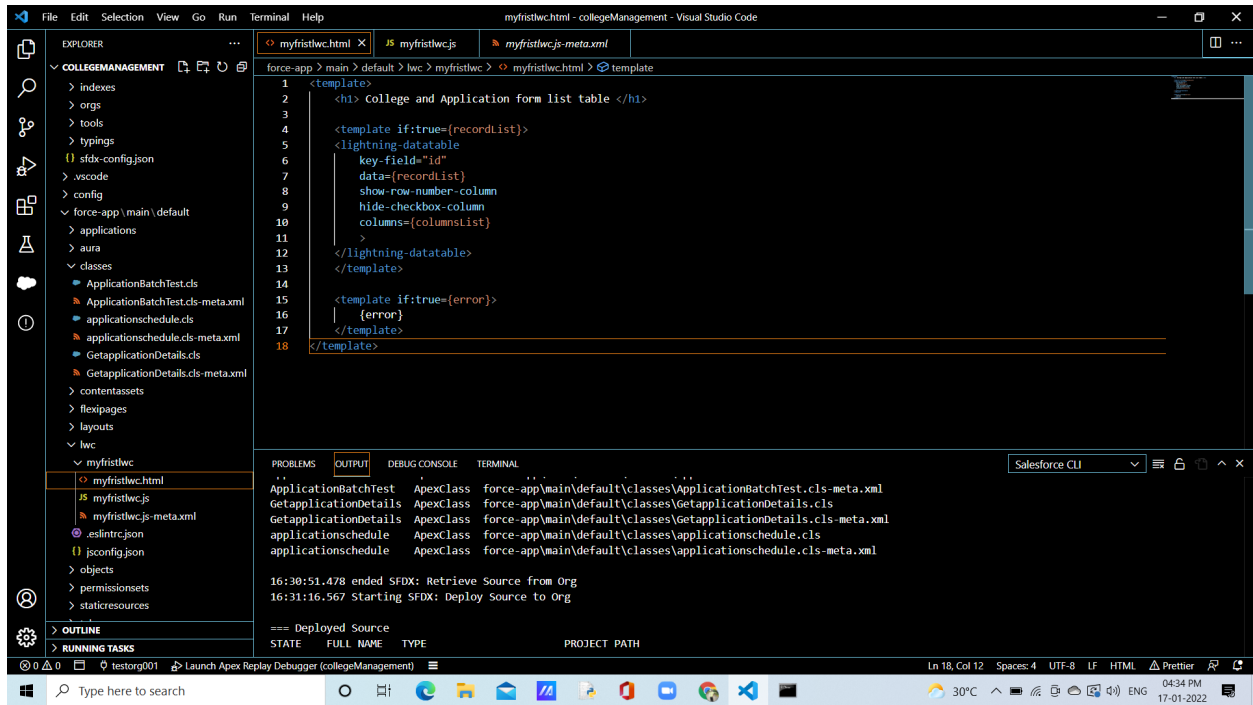
The screenshot shows the Salesforce Setup interface. On the left, the 'Setup' menu is open, and 'Apex Classes' is selected under 'Custom Code'. The main content area displays the details for the Apex Class 'GetapplicationDetails'. The class is owned by 'HARIVENKAT TUPAKULA' and was created on '1/17/2022, 5:23 AM'. The status is 'Active' and the code coverage is '0% (0/4)'. The class body is visible, showing the following code:

```

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, Home_Fees__c, Student_Name__c FROM
9         Application_Form__c WHERE College__c =:CollegeId];
10
11         return formList;
12     }
13 }
14

```

2) Create College DataTable Component (HTML FILE)



3) Create College DataTable Component(JAVA SCRIPT FILE)

The screenshot displays the Visual Studio Code interface for a Salesforce LWC project. The Explorer pane on the left shows the project structure, including the 'COLLEGE MANAGEMENT' folder and the 'force-app/main/default' directory. The main editor shows the 'myfristwc.js' file, which contains the following JavaScript code:

```
6 {label: 'Application Form', fieldName: 'Name', type: 'text' },
7 {label: 'College Fees', fieldName: 'College Fees_c', type: 'currency' },
8 {label: 'Date Of Birth', fieldName: 'Date Of Birth_c', type: 'date' },
9 {label: 'Email', fieldName: 'Email_c', type: 'email' },
10 {label: 'Hostel Fees', fieldName: 'Hostel Fees_c', type: 'currency' },
11 {label: 'StudentName', fieldName: 'Student Name_c', type: 'text' }
12 ];
13
14 @api recordId;
15 recordList;
16 error;
17
18 @wire(getApplicationValues, {collegeId: '$recordId'})
19 wiredCollegeData({data, error}){
20   if(data){
21     this.recordList = data;
22   }
23   else if(error){
24     this.error = error;
25   }
26   this.recordList = undefined;
27 }
28 }
```

The bottom pane shows the 'PROBLEMS' and 'OUTPUT' tabs. The 'OUTPUT' tab displays the following deployment logs:

```
16:30:51.478 ended SFDX: Retrieve Source from Org
16:31:16.567 Starting SFDX: Deploy Source to Org
=== Deployed Source
STATE FULL NAME TYPE PROJECT PATH
```


4) Create College DataTable Component(META FILE)

