

## College Management Application

### Day-1:

#### Creating a developer org in salesforce

1. Go to [developers.salesforce.com/](https://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. Country : 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

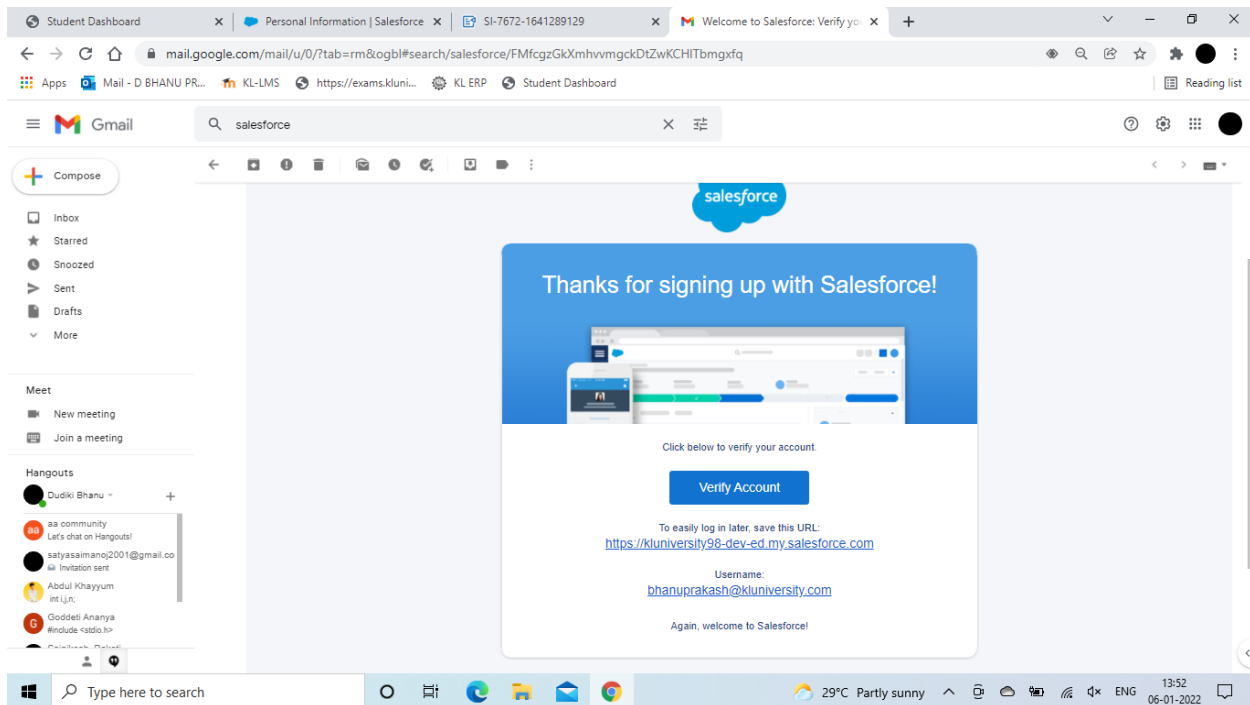
The screenshot shows the Salesforce Developer Edition sign-up page. The left sidebar features a blue background with the text 'Build enterprise-quality apps fast to bring your ideas to life' and a list of benefits. The main content area contains the sign-up form with the following details:

- First Name: Dudikl
- Last Name: Bhanu Prakash
- Email: bp746399@gmail.com
- Role: Developer
- Company: kl university
- Country: India
- Postal Code: 520012
- Username: bhanuprakash@kluniversity.com

#### Account Activation

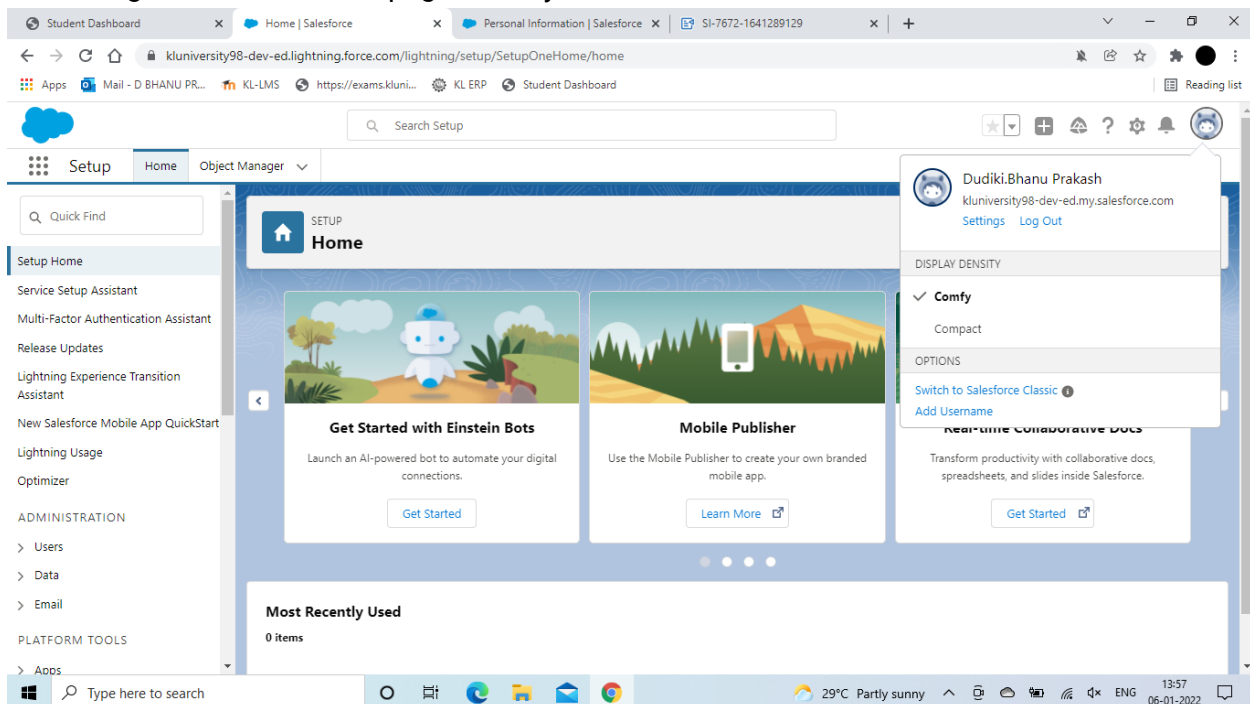
Go to the inbox of the email that you used while signing up. Click on the verify account to

activate your account. The email may take 5-10mins, as allocating a developer org will take time.



## Login To Your Salesforce Account

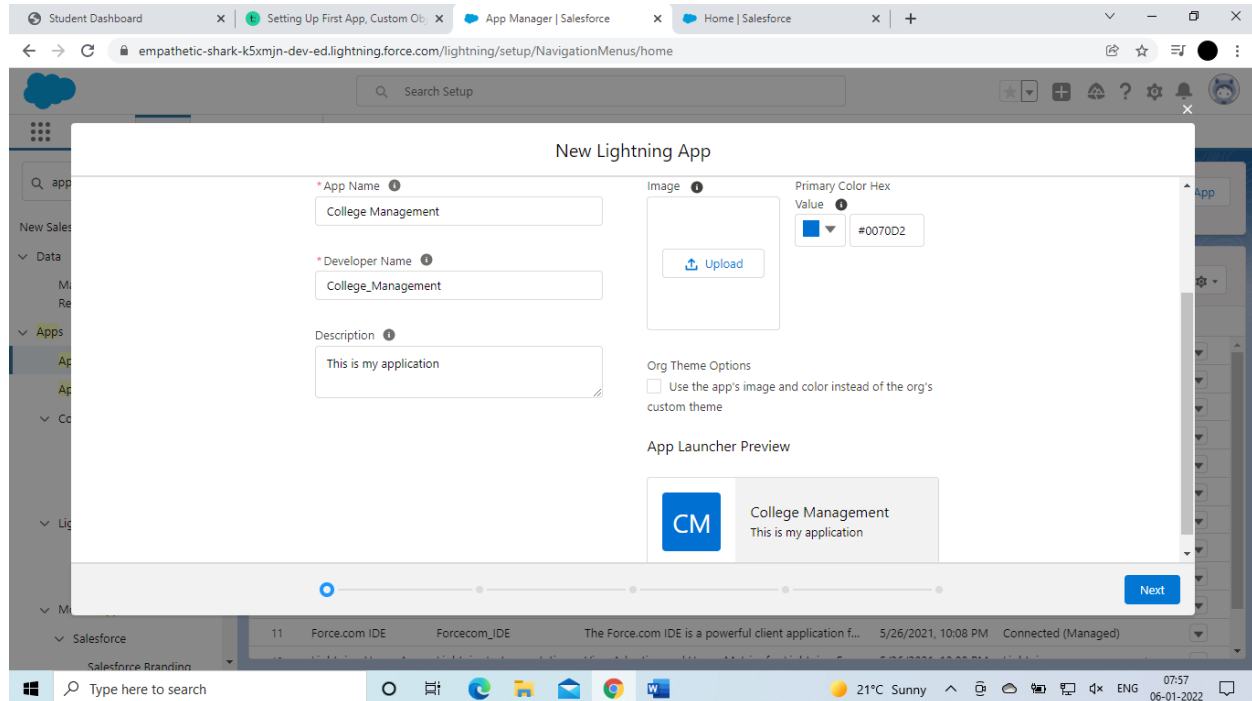
1. Go to [salesforce.com](https://salesforce.com) and click on login.
2. Enter the username and password that you just created.
3. After login this is the home page which you will see.



## Day-2:-

## Create The Custom Objects For The Application

### Creating New Lightning App



### Custom Objects Creation

#### 1)College:-

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

Student Dashboard x Setting Up First App, Custom O x College | Salesforce x New Custom Object | Salesf x Recently Viewed | Accounts | x +

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/setup/ObjectManager/new

Search Setup

Setup Home Object Manager

### SETUP New Custom Object

The singular and plural labels are used in tabs, page layouts, and reports.

Label:  Example: Account

Plural Label:  Example: Accounts

Starts with vowel sound: ☐

The Object Name is used when referencing the object via the API.

Object Name:  Example: Account

Description:

Context-sensitive help setting: ☒ Open the standard Salesforce.com Help & Training window ☐ Open a window using a Visualforce page

Content Name:

#### Enter Record Name Label and Format

The Record Name appears in page layouts, key lists, related lists, lookups, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name field is always called "Name" when referenced via the API.

Record Name:  Example: Account Name

Data Type:

#### Optional Features

- ☒ Allow Reports
- ☒ Allow Activities
- ☒ Track Field History
- ☒ Allow in Chatter Groups
- ☐ Enable Licensing

Type here to search

21°C Sunny 08:15 06-01-2022

Student Dashboard x Setting Up First App, Custom O x Home | Salesforce x Recently Viewed | Accounts | Sale x +

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/setup/CustomTabs/page?address=%2Fsetup%2Fui%2FobjectCustomTabWizard.jsp%3FretURL%3D...

Search Setup

Setup Home Object Manager

Quick Find

- 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
  - > Workflow Services
  - > Einstein
  - > Objects and Fields
    - Object Manager

### SETUP Tabs

#### New Custom Object Tab

Step 1. Enter the Details Step 1 of 3

Choose the custom object for this new custom tab. Fill in other details.

Select an existing custom object or [create a new custom object now](#).

Object:

Tab Style:

(Optional) Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.

Splash Page Custom Link:

Enter a short description. Description:

Next Cancel

Type here to search

21°C Sunny 08:11 06-01-2022

Student Dashboard x Setting Up First App, Custom Ob: x Home | Salesforce x Recently Viewed | Accounts | Sal: x +

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/setup/CustomTabs/page?address=%2Fsetup%2Fui%2FobjectCustomTabWizard.jsp%3FretURL%3D...

Setup Home Object Manager

Quick Find

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

> Workflow Services

> Einstein

> Objects and Fields

Object Manager

## SETUP Tabs

### New Custom Object Tab

Step 2: Add to Profiles Step 2 of 3

Choose the user profiles for which the new custom tab will be available. You may also examine or alter the visibility of tabs from the detail and edit pages of each profile.

☒ Apply one tab visibility to all profiles (Default On) ☐ Apply a different tab visibility for each profile

Profile	Tab Visibility
Analytics Cloud Integration User	Default On
Analytics Cloud Security User	Default On
Authenticated Website	Default On
Authenticated Website	Default On
Contract Manager	Default On
Cross Org Data Proxy User	Default On
Custom: Marketing Profile	Default On
Custom: Sales Profile	Default On
Custom: Support Profile	Default On
Customer Community Login User	Default On
Customer Community Plus Login User	Default On
Customer Community Plus User	Default On
Customer Community User	Default On
Customer Portal Manager Custom	Default On

21°C Sunny 08:11 06-01-2022

Student Dashboard x Setting Up First App, Custom Ob: x Home | Salesforce x Recently Viewed | Accounts | Sal: x +

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/setup/CustomTabs/page?address=%2Fsetup%2Fui%2FobjectCustomTabWizard.jsp%3FretURL%3D...

Setup Home Object Manager

Quick Find

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

> Workflow Services

> Einstein

> Objects and Fields

Object Manager

## SETUP Tabs

### Step 3: Add to Custom Apps

Step 3 of 3

Choose the custom apps for which the new custom tab will be available. You may also examine or alter the visibility of tabs from the detail and edit pages of each Custom App.

Custom App	Include Tab
Platform (standard__Platform)	<input checked="" type="checkbox"/>
Sales (standard__Sales)	<input checked="" type="checkbox"/>
Service (standard__Service)	<input checked="" type="checkbox"/>
Marketing (standard__Marketing)	<input checked="" type="checkbox"/>
Sample Console (standard__ServiceConsole)	<input checked="" type="checkbox"/>
High Volume Customer Portal User	<input checked="" type="checkbox"/>
Authenticated Website User	<input checked="" type="checkbox"/>
App Launcher (standard__AppLauncher)	<input checked="" type="checkbox"/>
Community (standard__Community)	<input checked="" type="checkbox"/>
Site.com (standard__Sites)	<input checked="" type="checkbox"/>
Salesforce Chatter (standard__Chatter)	<input checked="" type="checkbox"/>
Content (standard__Content)	<input checked="" type="checkbox"/>
Analytics Studio (standard__Insights)	<input checked="" type="checkbox"/>
Sales (standard__LightningSales)	<input checked="" type="checkbox"/>
Sales Console (standard__LightningSalesConsole)	<input checked="" type="checkbox"/>
Service Console (standard__LightningService)	<input checked="" type="checkbox"/>
Lightning Usage App (standard__LightningInstrumentation)	<input checked="" type="checkbox"/>

21°C Sunny 08:12 06-01-2022

**COLLEGE OBJECT MANAGER:-**

Student Dashboard x Setting Up First App, Customi x College | Salesforce x SI-7672-1641289129 x New College | Salesforce x

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/o/College\_c/new?count=7&nooverride=1&useRecordTypeCheck=1&navigationLocatio...

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

College Management Colleges

Colleges Recently Viewed 6 items • Updated a minute ago

Record Info

1	<input type="checkbox"/>	MIT-CCU
2	<input type="checkbox"/>	MIT-DEL
3	<input type="checkbox"/>	MIT-MAA
4	<input type="checkbox"/>	MIT-MUM
5	<input type="checkbox"/>	MIT-BLR
6	<input type="checkbox"/>	MIT-HYD

New College

Information

\*College Name --None-- Owner D.Bhanu Prakash

College Email --None-- \*College Fees

No of Seats --None-- Hostel Fees

System Information

\*Record Info

Cancel Save & New Save

Type here to search

Student Dashboard x Setting Up First App, Customi x College | Salesforce x SI-7672-1641289129 x Recently Viewed | Colleges x

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/o/College\_c/list?filterName=Recent

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

College Management Colleges

Colleges Recently Viewed 6 items • Updated a minute ago

Search this list...

Record Info

1	<input type="checkbox"/>	MIT-CCU
2	<input type="checkbox"/>	MIT-DEL
3	<input type="checkbox"/>	MIT-MAA
4	<input type="checkbox"/>	MIT-MUM
5	<input type="checkbox"/>	MIT-BLR
6	<input type="checkbox"/>	MIT-HYD

## 2)Application Form:-

Create the following fields on the 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	

## APPLICATION FORM OBJECT MANAGER:-

The screenshot displays the Salesforce 'Application Form Object Manager' interface. The 'Information' tab is selected, showing a list of fields for the 'Application Form' object. The fields are:

- Form Number (Text, 30 characters, required)
- College (Master-Detail relationship, required)
- Student Name (Text, 30 characters, required)
- Email (Email, unique, required)
- Date of Birth (Date, required)
- Address (Text, 255 characters, required)
- Guardian Name (Text, 30 characters, required)
- Looking For Hostel Stay (Checkbox, default=Uncheck)
- Ready To Join (Checkbox, default=Uncheck)
- Phone (Phone, required)

The 'Form Number' field is pre-filled with 'Form-00000001'. The 'Looking For Hostel Stay' and 'Ready To Join' fields are checkboxes. The 'Save' button is highlighted.

SI-7672-1641289129 x Student Dashboard x Profiles, Record types, Autom... x Student | Salesforce x Recently Viewed | Application x + -

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/o/Application\_Form\_c/list?filterName=Recent

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

College Management Colleges Application Forms Students

Application Forms Recently Viewed

1 item - Updated a few seconds ago

Form Number

1	Form-00000001
---	---------------

Type here to search

22°C Sunny 08:47 07-01-2022

SI-7672-1641289129 x Student Dashboard x Profiles, Record types, Autom... x Student | Salesforce x Form-00000001 | Salesforce x + -

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/r/Application\_Form\_c/a035g0000056dXVAAY/view

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

College Management Colleges Application Forms Students

Application Form Form-00000001

New Contact Edit New Case

New Event New Task Log a Call Email

Set up an event... Add

Filters: All time • All activities • All types Refresh Expand All View All

Upcoming & Overdue

No next steps.  
To get things moving, add a task or set up a meeting.

No past activity. Past meetings and tasks marked as done show up here.

Form Number  
Form-00000001

College  
MIT-HYD

Student Name  
Bhanu

Email  
bhanu@gmail.com

Date of Birth  
8/2/2001

College Fees  
\$7,000,000.00

Address  
Vijayawada

Hostel Fees  
\$0.00

Guardian Name  
people

Looking For Hostel Stay  
☐

Ready To Join  
☐

Phone  
(987) 654-3210

Created By  
D.Bhanu Prakash, 1/6/2022, 7:16 PM

Last Modified By  
D.Bhanu Prakash, 1/6/2022, 7:16 PM

Type here to search

22°C Sunny 08:47 07-01-2022



### 3)Student

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	

### STUDENT OBJECT MANAGER

The screenshot displays the Salesforce Student Object Manager interface. The left sidebar contains navigation options: Details, Fields & Relationships (selected), 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, and Triggers. The main content area is titled 'Fields & Relationships' and shows a list of 10 fields sorted by Field Label. The fields are: Address (Text(255)), Application Form (Lookup(Application Form)), College Name (Formula (Text)), Created By (Lookup(User)), Date of Birth (Date), Guardian Name (Text(30)), Last Modified By (Lookup(User)), Owner (Lookup(User Group)), Phone (Phone), and Student Name (Text(80)). The 'INDEXED' column shows checkmarks for Application Form, Owner, and Student Name. The bottom of the screen shows the Windows taskbar with the search bar and system tray.

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)		✓

Mail - D BHANU PRAKASH x Student | Salesforce x New Student | Salesforce x Student Dashboard x SI-7672-1641289129 x

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/o/Student\_c/new?count=4&nooverride=1&useRecordTypeCheck=1&navigationLocation=LI...

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

College Management Colleges Application Forms Students Subjects

Students Recently Viewed 5 items • Updated a few seconds ago

Student Name BP gopi praveen prakash Bhanu

New Student

Information

\* Student Name Application Form Address Date of Birth Guardian Name Phone

Owner: D.Bhanu Prakash

Cancel Save & New Save

Type here to search 25°C Haze 14:21 08-01-2022

Mail - D BHANU PRAKASH x Student | Salesforce x Recently Viewed | Students x Student Dashboard x SI-7672-1641289129 x

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/o/Student\_c/list?filterName=Recent

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

College Management Colleges Application Forms Students Subjects

Students Recently Viewed 5 items • Updated a few seconds ago

Student Name BP gopi praveen prakash Bhanu

New Import Change Owner

Search this list...

Type here to search 25°C Haze 14:21 08-01-2022

#### 4)Subject Object

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)		

Paper1

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

Paper2

Picklist Value Name	Values
Paper2	MATHEMATICS ENGLISH STATISTICS

The screenshot shows the Salesforce Setup interface for the 'Subject' object. The 'Fields & Relationships' section is active, displaying a table of fields. The table has columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields listed are:

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	Name	Auto Number		✓

Mail - D BHANU PRAKASH - x Subject | Salesforce x New Subject | Salesforce x Student Dashboard x SI-7672-1641289129 x + -

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/o/Subject\_c/new?count=1&nooverride=1&useRecordTypeCheck=1&navigationLocation=LIS...

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

College Management Colleges Application Forms Students Subjects

Subjects Recently Viewed 0 items • Updated a minute ago

New Subject

Information

Subject Id Owner D.Bhanu Prakash

Paper 1 --None--

Student Search Students...

Paper 2 --None--

Cancel Save & New Save

Type here to search 25°C Haze 14:13 08-01-2022

Mail - D BHANU PRAKASH - x Subject | Salesforce x Recently Viewed | Subjects x Student Dashboard x SI-7672-1641289129 x + -

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/o/Subject\_c/list?filterName=Recent

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

College Management Colleges Application Forms Students Subjects

Subjects Recently Viewed 4 items • Updated a few seconds ago

New Import Change Owner

Search this list...

	Subject Id	
1	S-0000005	
2	S-0000004	
3	S-0000003	
4	S-0000002	

Type here to search 25°C Haze 14:15 08-01-2022

## DAY-3:

### Creating Global Picklist Value Sets:-

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

a) College

Picklist Value Name	Values
College	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

The screenshot shows the Salesforce Setup interface for 'Picklist Value Sets'. The main content area displays a table of Global Value Sets. The table has three columns: Action, Label, and Description. The rows are:

Action	Label	Description
<a href="#">Edit</a>   <a href="#">Del</a>	College Name	
<a href="#">Edit</a>   <a href="#">Del</a>	Paper 1	
<a href="#">Edit</a>   <a href="#">Del</a>	Paper 2	
<a href="#">Edit</a>   <a href="#">Del</a>	Region	For use in region fields throughout AWW's org.

Below the table, there is a link: [Related Global Value Sets \(0\)](#).

The left sidebar shows the Setup menu with options like Service Setup Assistant, Multi-Factor Authentication Assistant, Release Updates, Lightning Experience Transition Assistant, New Salesforce Mobile App QuickStart, Lightning Usage, Optimizer, and ADMINISTRATION. The bottom of the screen shows the Windows taskbar with the search bar and system tray.

## 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.

The screenshot shows the Salesforce Setup interface for a custom object named 'College'. The left sidebar contains a navigation menu with options like 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, and Triggers. The main content area is titled 'College Field Dependencies' and includes a 'Back to Custom Object: College' link. Below the title, a message states: 'This page allows you to define dependencies between fields (e.g., dependent picklists)'. A table titled 'Field Dependencies' is displayed with a 'New' button. The table has three columns: Action, Controlling Field, and Modified By. It contains two rows of dependencies.

Action	Controlling Field	Dependent Field	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>	College Name	College Email	<a href="#">D.Shanu Prakash</a> 1/5/2022, 9:07 PM
<a href="#">Edit</a>   <a href="#">Del</a>	College Name	No of Seats	<a href="#">D.Shanu Prakash</a> 1/5/2022, 9:14 PM

The bottom of the image shows a Windows taskbar with a search bar, application icons, and system tray information including temperature (26°C), weather (Light rain), and date/time (12:23, 12-01-2022).

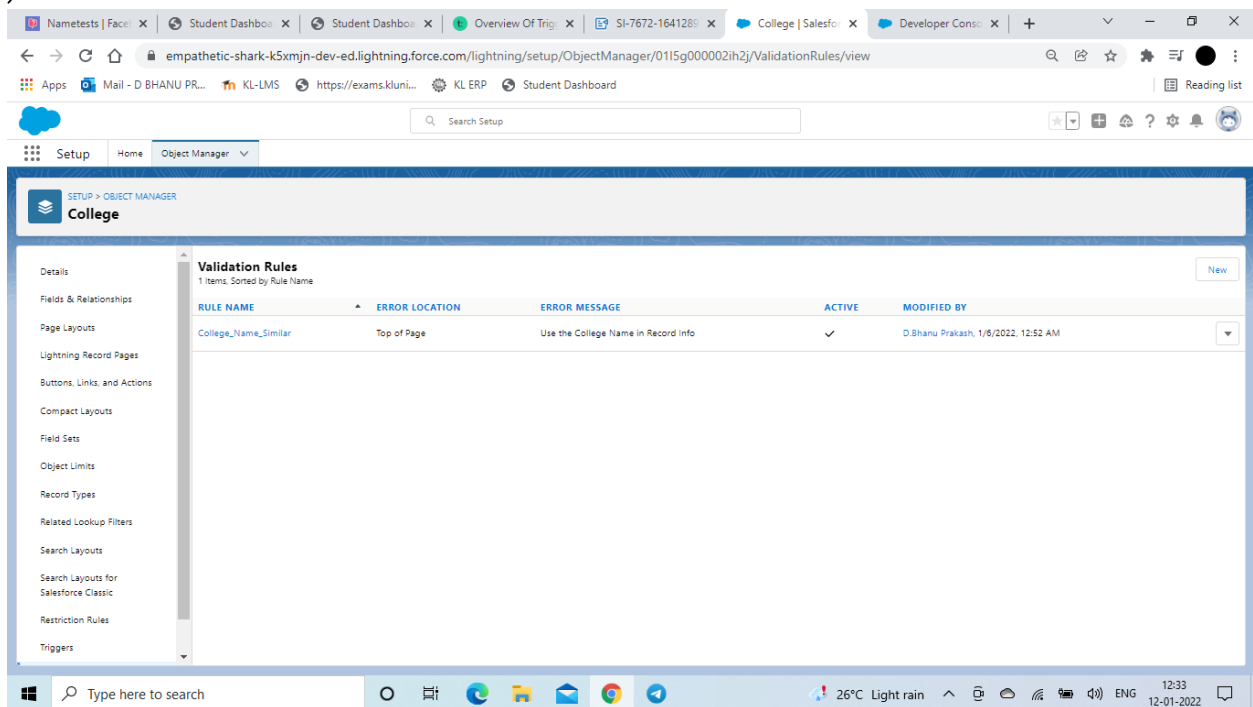
## Creating Validation Rules:-

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 )  
)  
)
```



The screenshot shows the Salesforce Setup interface. 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, Related Lookup Filters, Search Layouts, Search Layouts for Salesforce Classic, Restriction Rules, and Triggers. The main content area is titled 'Validation Rules' and shows a table with one rule. The table has columns: RULE NAME, ERROR LOCATION, ERROR MESSAGE, ACTIVE, and MODIFIED BY. The rule listed is 'College\_Name\_Similar' with an error location of 'Top of Page' and an error message of 'Use the College Name in Record Info'. The rule is active (checked) and was modified by 'D.Bhanu Prakash' on 1/6/2022 at 12:52 AM. A 'New' button is visible in the top right corner of the table.

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
College_Name_Similar	Top of Page	Use the College Name in Record Info	✓	D.Bhanu Prakash, 1/6/2022, 12:52 AM

Browser tabs: NameTests | Face... x Student Dashbo... x Student Dashbo... x Overview Of Trig... x SI-7672-164128... x College | Salesfo... x Developer Conso... x

Address bar: empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115g000002ih2j/ValidationRules/03d5g000000tqE7AAI/view

Navigation: Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

Search Setup

### College Validation Rule

[Back to College](#) [Help for this Page](#)

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

Rule Name	College_Name_Similar	Active	✓
Error Condition Formula	TEXT( College_Name__c ) <> Name		
Error Message	Use the College Name in Record Info		
Error Location	Top of Page		
Description			
Created By	D.Bhanu Prakash	1/8/2022, 12:52 AM	
Modified By	D.Bhanu Prakash	1/8/2022, 12:52 AM	

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

Windows taskbar: 26°C Light rain 12:32 12-01-2022

Browser tabs: (T) NameTests | F... x Student Dashbo... x Student Dashbo... x Overview Of Trig... x SI-7672-164128... x Application Form x Developer Conso... x

Address bar: empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115g000002ihEL/ValidationRules/view

Navigation: Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

Search Setup

### Application Form

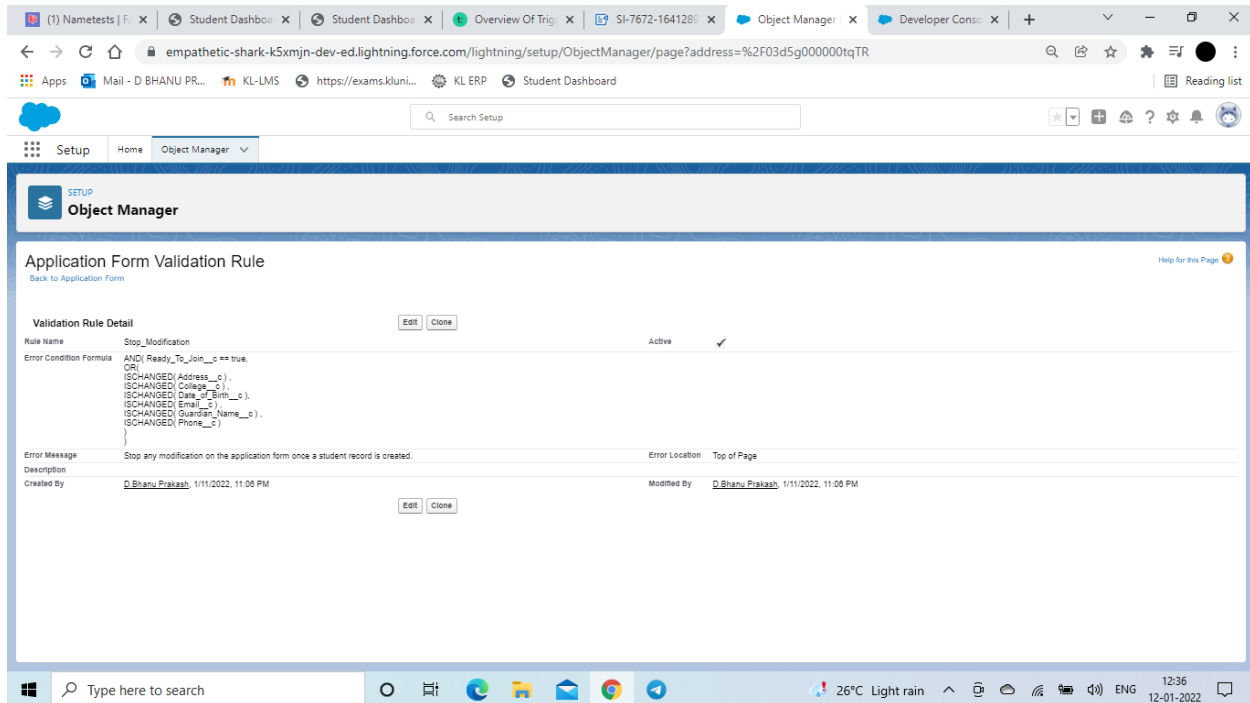
**Validation Rules** [New](#)

1 Items, Sorted by Rule Name

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
Stop_Modification	Top of Page	Stop any modification on the application form once a student record is created.	✓	D.Bhanu Prakash, 1/11/2022, 11:06 PM

Windows taskbar: 26°C Light rain 12:37 12-01-2022





## 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.

Process Builder

My Processes

PROCESS	DESCRIPTION	OBJECT	PROCESS TYPE	LAST MODIFIED	STATUS	ACTIONS
Application Form						
Version 1: Application Form		Application Form	Record Change	1/11/2022	Active	

Process Builder - Application Form

Expand All Collapse All

View All Processes Clone Edit Properties Activate

START

Application Form

Ready to Join

TRUE

IMMEDIATE ACTIONS

Create a Student Rec...

STOP

FALSE

+ Add Criteria

TRUE

IMMEDIATE ACTIONS

+ Add Action

STOP

FALSE

STOP

Create a Record

Create a Student Record

Record Type\*

Student

Set Field Values

Field *	Type *	Value *
Address	Field Reference	[Application_Form___.Q]
Application Form	Field Reference	[Application_Form___.Q]
Date of Birth	Field Reference	[Application_Form___.Q]
Guardian Name	Field Reference	[Application_Form___.Q]
Phone	Field Reference	[Application_Form___.Q]
Student Name	Field Reference	[Application_Form___.Q]

+ Add Row


Save Cancel Delete

## 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.

**Edit Assignment**





























---

**Assign student record data** (Assign\_student\_record\_data) 

---

**Set Variable Values**

Each variable is modified by the operator and value combination.

Variable	Operator	Value
 studentVar > Address 	Equals	 \$Record > Address 
 studentVar > Application Form 	Equals	 \$Record > Record ID 
 studentVar > college Name 	Equals	 \$Record > College 
 studentVar > Date of Birth 	Equals	 \$Record > Date of Birth 
 studentVar > Guardian Name 	Equals	 \$Record > Guardian Name 
 studentVar > Phone 	Equals	 \$Record > Phone 
 studentVar > Student Name 	Equals	 \$Record > Student Name 

6. Now add create records.

#### Day-4:-

#### 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 BatchApex

```
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
    }
}
```

#### Create A Batchapex 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>{

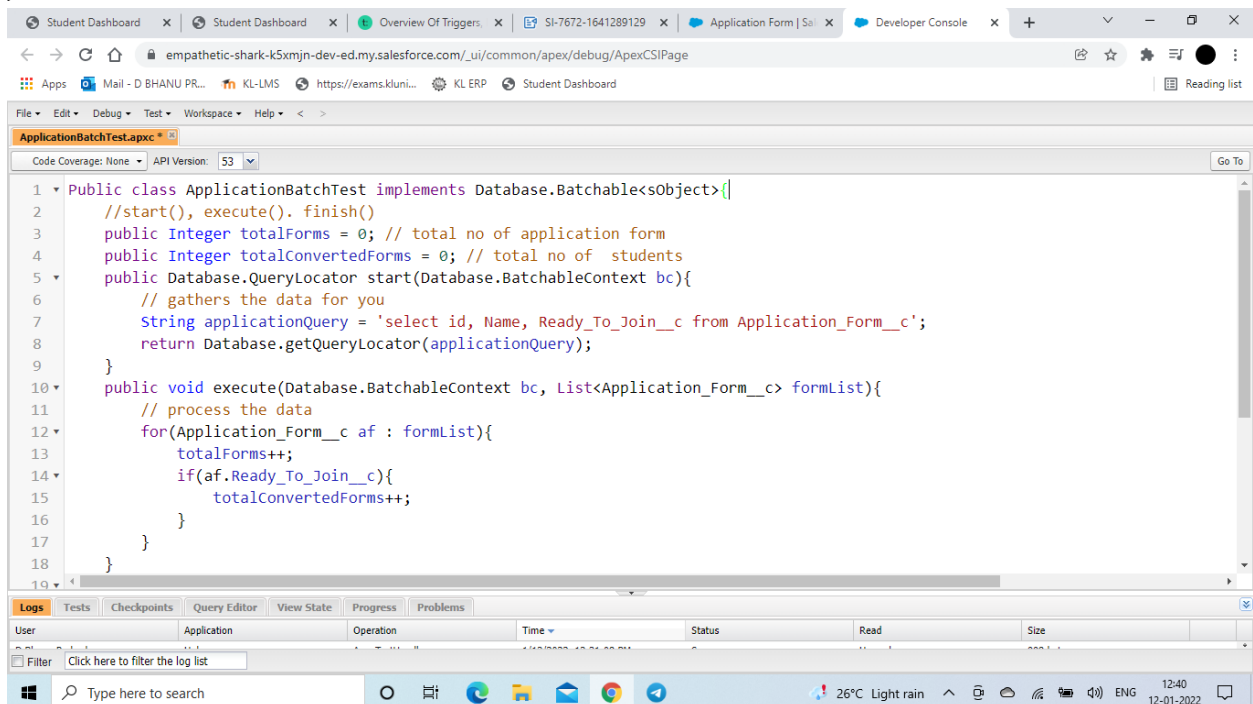
    //start(), execute(). finish()
    public Integer totalForms = 0; // total no of application form
    public Integer totalConvertedForms = 0; // total no of students
    public Database.QueryLocator start(Database.BatchableContext bc){
        // gathers the data for you
        String applicationQuery = '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++;
            }
        }
    }
}
```

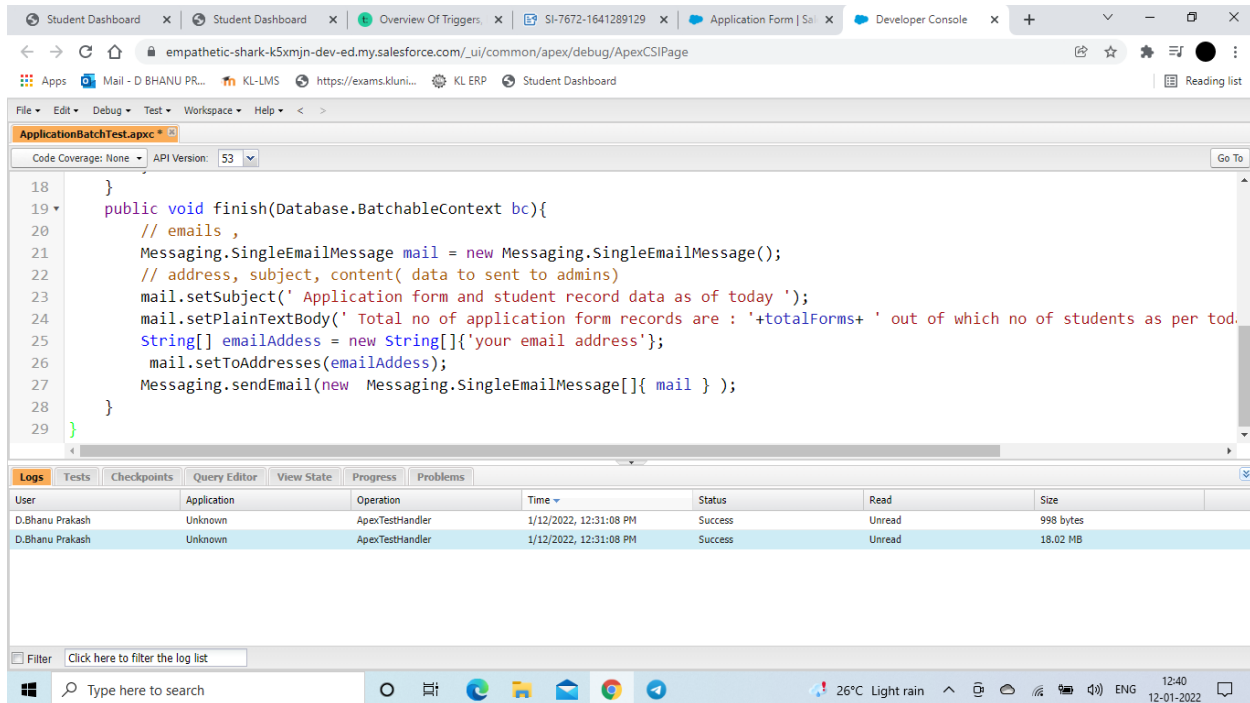
```

    }
}

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 } );
}
}

```





## 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.

Student Dashboard x Student Dashboard x Overview Of Triggers x SI-7672-1641289129 x Process Builder | Sales x Developer Console x

empathetic-shark-k5xmjn-dev-ed.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

File Edit Debug Test Workspace Help

ApplicationBatchTest.apxc applicationSchedule.apxc

Code Coverage: None API Version: 53 Go To

```
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 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
D.Bhanu Prakash	Unknown	ApexTestHandler	1/12/2022, 12:41:50 PM	Success	Unread	998 bytes
D.Bhanu Prakash	Unknown	ApexTestHandler	1/12/2022, 12:41:50 PM	Success	Unread	18.31 MB
D.Bhanu Prakash	Unknown	ApexTestHandler	1/12/2022, 12:31:08 PM	Success	Unread	998 bytes
D.Bhanu Prakash	Unknown	ApexTestHandler	1/12/2022, 12:31:08 PM	Success	Unread	18.02 MB

Filter Click here to filter the log list

Type here to search

26°C Light rain 12:47 12-01-2022

KLU - AWS Developer Assoc x Student Dashboard x Scheduled Jobs | Salesforce x

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/setup/ScheduledJobs/home

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Reading list

Search Setup

Setup Home Object Manager

sch

Data Schema Settings Feature Settings Sales Products Product Schedules Settings Objects and Fields Schema Builder Environments Jobs Scheduled Jobs

Didn't find what you're looking for? Try using Global Search.

### Scheduled Jobs

#### All Scheduled Jobs

The All Scheduled Jobs page lists all of the jobs scheduled by your users. Multiple job types may display on this page. You can delete scheduled jobs if you have the permission to do so.

View: All Scheduled Jobs Create New View

Action	Job Name	Submitted By	Submitted	Started	Next Scheduled Run	Type
Manage   Del	applicationSchedule	Prakash D.Bhanu	1/12/2022, 9:43 PM		1/13/2022, 12:00 PM	Scheduled Apex
Del	fe09110-0202-ae3e-da78-0f04be0101e0	Prakash D.Bhanu	6/15/2021, 10:49 PM	1/11/2022, 9:00 AM	1/18/2022, 9:00 AM	Reporting Notification
Del	Metalytics Data Loader Job for Org - 00D5g000005FwvP	User Integration	6/12/2021, 1:42 PM	1/12/2022, 11:19 AM	1/13/2022, 11:19 AM	Autonomous Data Loader Job

21°C Mostly sunny 11:15 13-01-2022

## DAY-5:-

### Create College DataTable Component( APEX CLASS):-

Create an Apex Class With The Required Functionality

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

        List<Application_Form__c> formlist = [SELECT ID, College_Fees__c,Name,
        Date_Of_Birth__c,Email__c,Hostel_Fees__c, Student_Name__c FROM
        Application_Form__c WHERE College__c =:CollegeId];

        return formList;
    }
}
```

The screenshot displays the Salesforce Developer Console interface. The top pane shows the Apex class `GetapplicationDetails` with 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,Hostel_Fees__c, Student_Name__c FROM
9         Application_Form__c WHERE College__c =:CollegeId];
10
11         return formList;
12     }
13
14 }
```

The bottom pane shows the 'Logs' tab with two log entries:

User	Application	Operation	Time	Status	Read	Size
D.Bhanu Prakash	Unknown	ApexTestHandler	1/17/2022, 4:25:26 PM	Success	Unread	1011 bytes
D.Bhanu Prakash	Unknown	ApexTestHandler	1/17/2022, 4:25:26 PM	Success	Unread	18.12 MB

The Windows taskbar at the bottom shows the system clock as 16:26 on 17-01-2022, with a weather forecast of 28°C Partly sunny.



## Create College DataTable Component (HTML FILE):-

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>
```

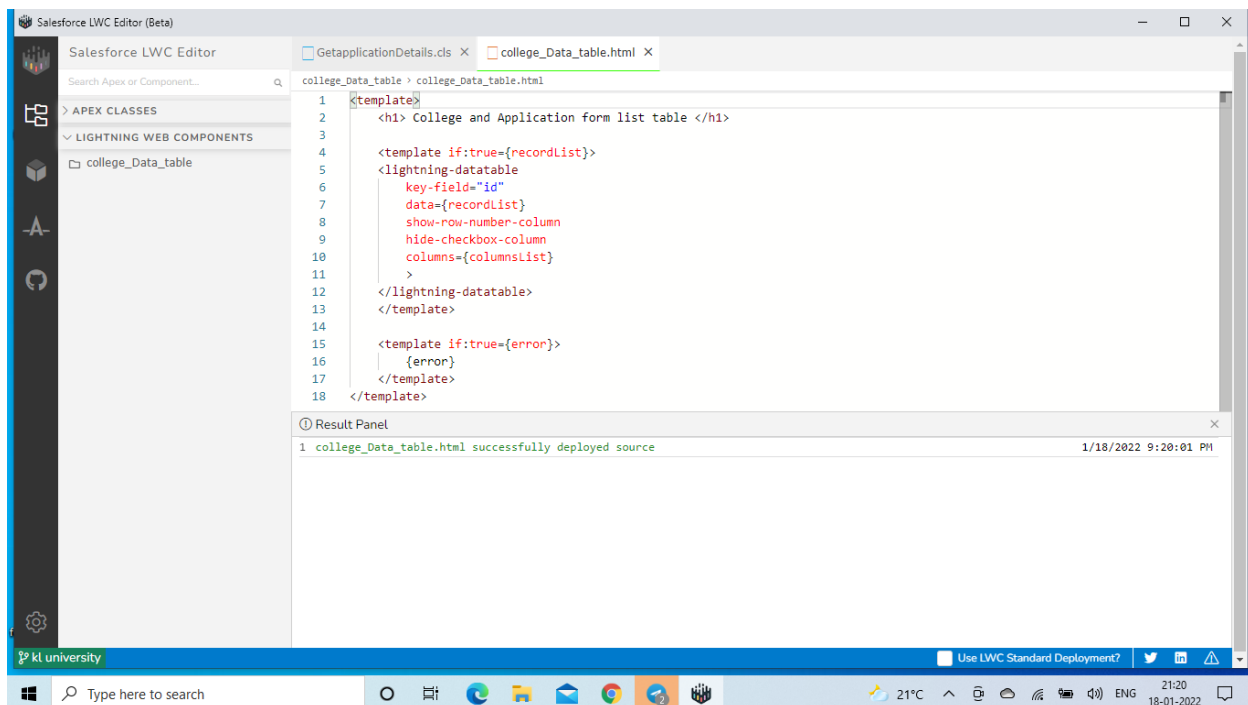
```
    </template>
```

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

```
        {error}
```

```
    </template>
```

```
</template>
```



### 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' }
  ];

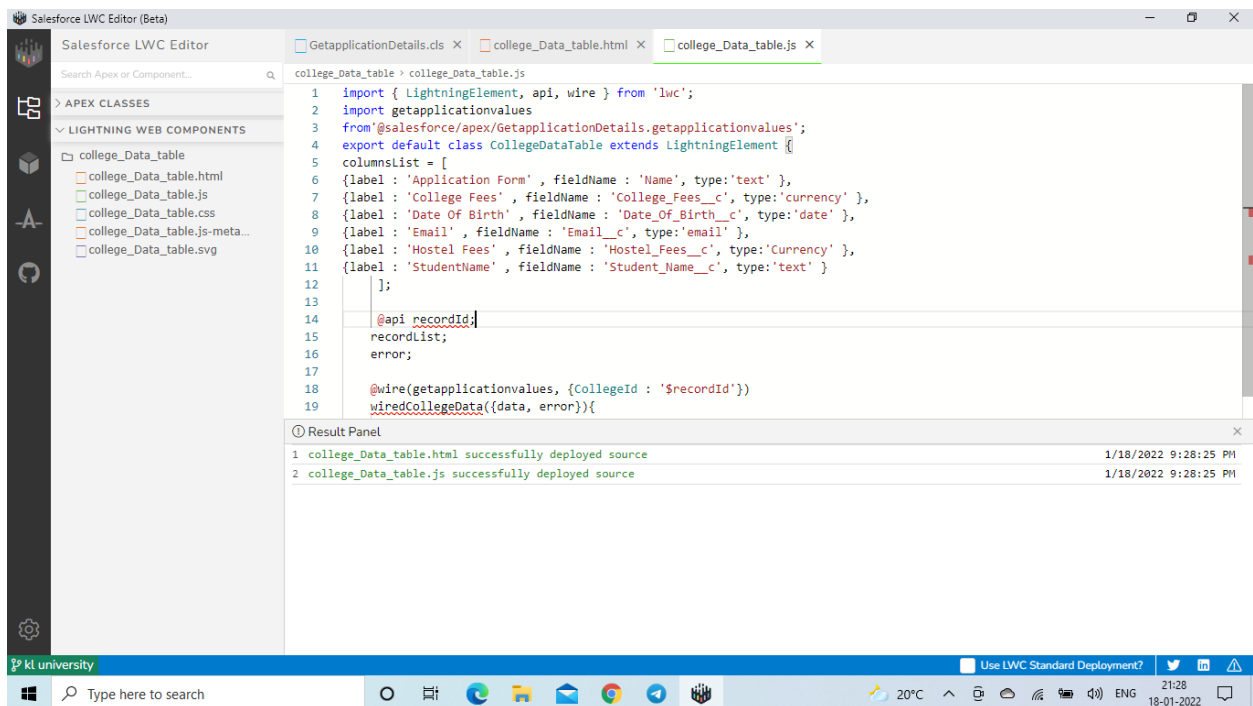
  @api recordId;
  recordList;
  error;

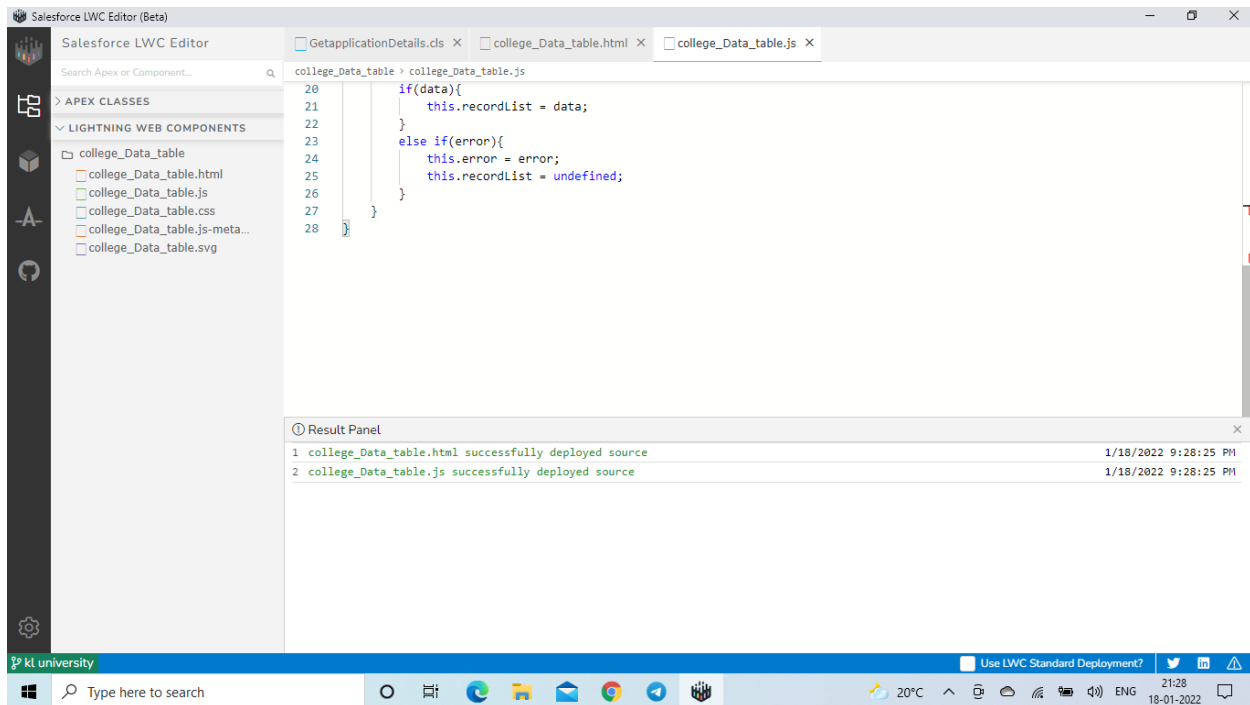
```

```

@wire(getapplicationvalues, {CollegeId : '$recordId'})
wiredCollegeData({data, error}){
    if(data){
        this.recordList = data;
    }
    else if(error){
        this.error = error;
        this.recordList = undefined;
    }
}
}

```





### 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>
```

Salesforce LWC Editor (Beta)

Search Apex or Component...

APEX CLASSES

LIGHTNING WEB COMPONENTS

college\_Data\_table

- college\_Data\_table.html
- college\_Data\_table.js
- college\_Data\_table.css
- college\_Data\_table.js-meta.xml
- college\_Data\_table.svg

```

1 <?xml version="1.0"?>
2 <LightningComponentBundle
3 xmlns="http://soap.sforce.com/2006/04/metadata">
4   <apiVersion>51.0</apiVersion>
5   <isExposed>true</isExposed>
6   <targets>
7     <target>lightning_RecordPage</target>
8     <target>lightning_AppPage</target>
9     <target>lightning_HomePage</target>
10  </targets>
11 </LightningComponentBundle>

```

Result Panel

1 college_Data_table.html successfully deployed source	1/18/2022 9:31:11 PM
2 college_Data_table.js successfully deployed source	1/18/2022 9:31:11 PM
3 college_Data_table.js-meta.xml successfully deployed source	1/18/2022 9:31:11 PM

kl university

Type here to search

Use LWC Standard Deployment?

21:31 18-01-2022

Student | Salesforce x MIT-CCU | Salesforce x Student Dashboard x SI-7672-1641289129 x +

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/r/College\_c/a025g000006zCzuAAE/view

Apps Mail - D BHANU PR... KL-LMS https://exams.kluni... KL ERP Student Dashboard Dashboard | Sketch...

College Management Colleges Application Forms Students Subjects

College MIT-CCU

New Contact Edit New Case

Related Details **Datatable**

College and Application form list table

	Application Form	College Fees	Date Of Birth	Email	Hostel Fees	StudentName
1	Form-00000002	\$6,000,000.00		prakash@gmail.com	\$00000	prakash

Activity

New Event New Task Log a Call Email

Set up an event... Add

Filters: All time • All activities • All types

Refresh • Expand All • View All

Upcoming & Overdue

No next steps.

To get things moving, add a task or set up a meeting.

No past activity. Past meetings and tasks marked as done show up here.

javascript:void(0)

Type here to search

19°C Mostly cloudy

22:17 18-01-2022

Student | SalesforceMIT-HYD | SalesforceStudent DashboardSI-7672-1641289129

empathetic-shark-k5xmjn-dev-ed.lightning.force.com/lightning/r/College\_\_c/a025g000006zCwzAAE/view

AppsMail - D BHANU PR...KL-LMShttps://exams.kluni...KL ERPStudent DashboardDashboard | Sketch...Reading list

College ManagementCollegesApplication FormsStudentsSubjects

CollegeMIT-HYDNew ContactEditNew Case

RelatedDetailsDatable

College and Application form list table

	Application Form	College Fees	Date Of Birth	Email	Hostel Fees	StudentName
1	Form-00000006	\$7,000,000.00		bhanuprakash@gmail...	0	Bhanu Prakash
2	Form-00000001	\$7,000,000.00		bhanu@gmail.com	0	Bhanu

Activity

New EventNew TaskLog a CallEmail

Set up an event...Add

Filters: All timeAll activitiesAll types

RefreshExpand AllView All

Upcoming & Overdue

No next steps.  
To get things moving, add a task or set up a meeting.

No past activity. Past meetings and tasks marked as done show up here.

Type here to search

19°C Mostly cloudy

22:18  
18-01-2022