

► Project title : College Management Application

- DAY 1 :

Topic : Create Salesforce Develop Org To Get Started

Milestone / Activities :

1. Creating Developer Account
2. Account Activation
3. Log In To Your Salesforce Account
4. Salesforce Login

Detailed Description :

Step 1 :

Creating a developer org in salesforce.

Go to [developers.salesforce.com/](https://developer.salesforce.com/)

Click on sign up.

On the sign up form, enter the following details :

First name & Last name

Email

Role : Developer

Company : College Name

Country : India

Postal Code : pin code

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

Step 2 :

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.

Step 3 :

Salesforce Customer Secure Login Page. Login to your

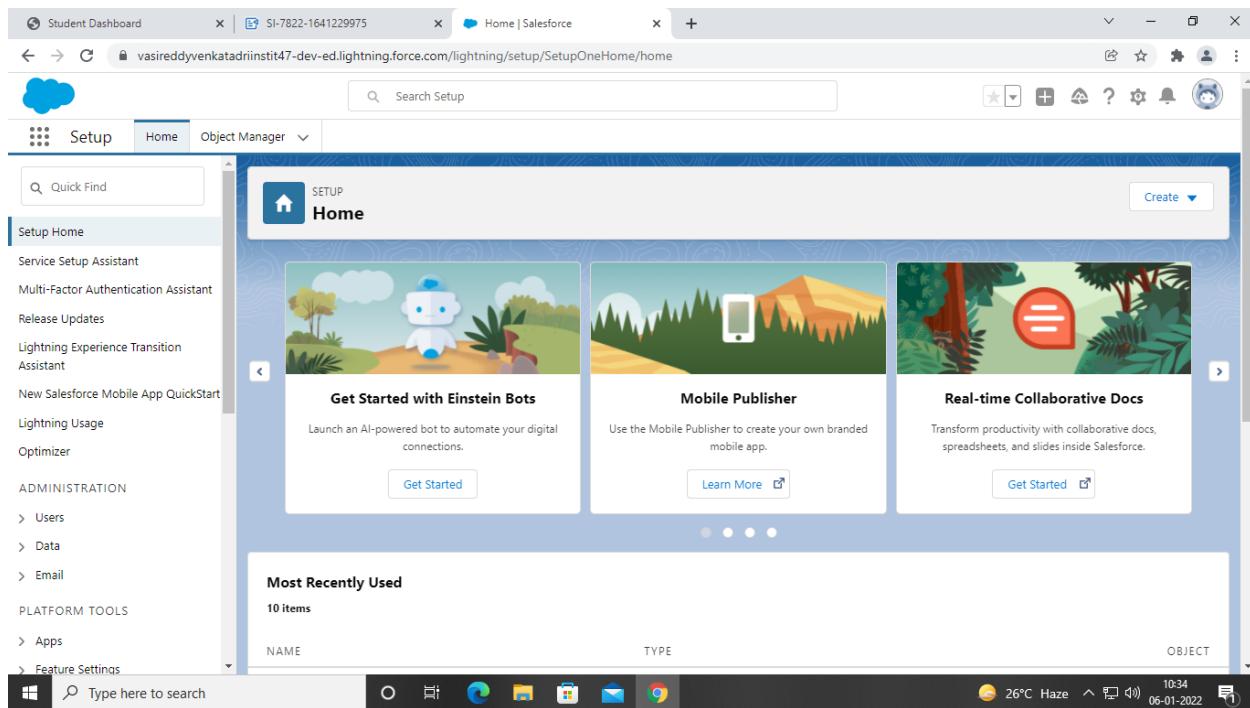
Salesforce Custom..

Salesforce Customer Secure Login Page. Login to your Salesforce Customer Account...

<https://login.salesforce.com/>

The screenshot shows a web browser window with two tabs open. The active tab is titled 'SI-7822-1641229975' and displays a 'Guided Project' workspace for a 'College Management Application'. The sidebar on the left lists various project categories: Dashboard, Externships, Guided Projects (selected), Challenges, Internships, Projects, Certificates, and Transactions. The main workspace contains several steps: 'Create Your Salesforce Developer Org To Get Started', 'Creating Developer Account', 'Account Activation', 'Login To Your Salesforce Account', 'Custom Object Creation', 'Create The Custom Objects For The Application', and 'Create Fields On College Object'. A large text block on the right provides instructions for creating a developer org, including a list of required details like First Name & Last Name, Email, Role (Developer), Company (College Name), County (India), Postal Code (pin code), and Username (a combination of name and company). It also notes that the username should not be a real email ID and can be anything in the format: username@organization.com. Below this text is a screenshot of a browser showing the 'Developer Edition Signup' page on developer.salesforce.com/signup.

The screenshot shows a web browser window displaying the 'Developer Edition Signup' page from developer.salesforce.com/signup. The page has a blue header with the Salesforce logo and the text 'Sign up for your Salesforce Developer Edition' and 'A full-featured copy of the Platform, for free'. Below this is a form with fields for 'First Name*', 'Last Name*', 'Email*', 'Role*', 'Company*', and 'Country*'. To the left of the form, there is a large image of a computer monitor showing a drag-and-drop app builder interface. Below the image, the text 'Build enterprise-quality apps fast to bring your ideas to life' is followed by a bulleted list of features: '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', and 'Customize UI with clicks or any leading-edge web framework'. The status bar at the bottom of the screen shows 'Waiting for doppler.sfdc.sh...' and the date '06-01-2022'.



- 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 :

Step 1 :

Create the following Custom Objects For the Application.

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

Step 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

Step 3 :

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	

Step 4 :

Create the following fields on the student object.

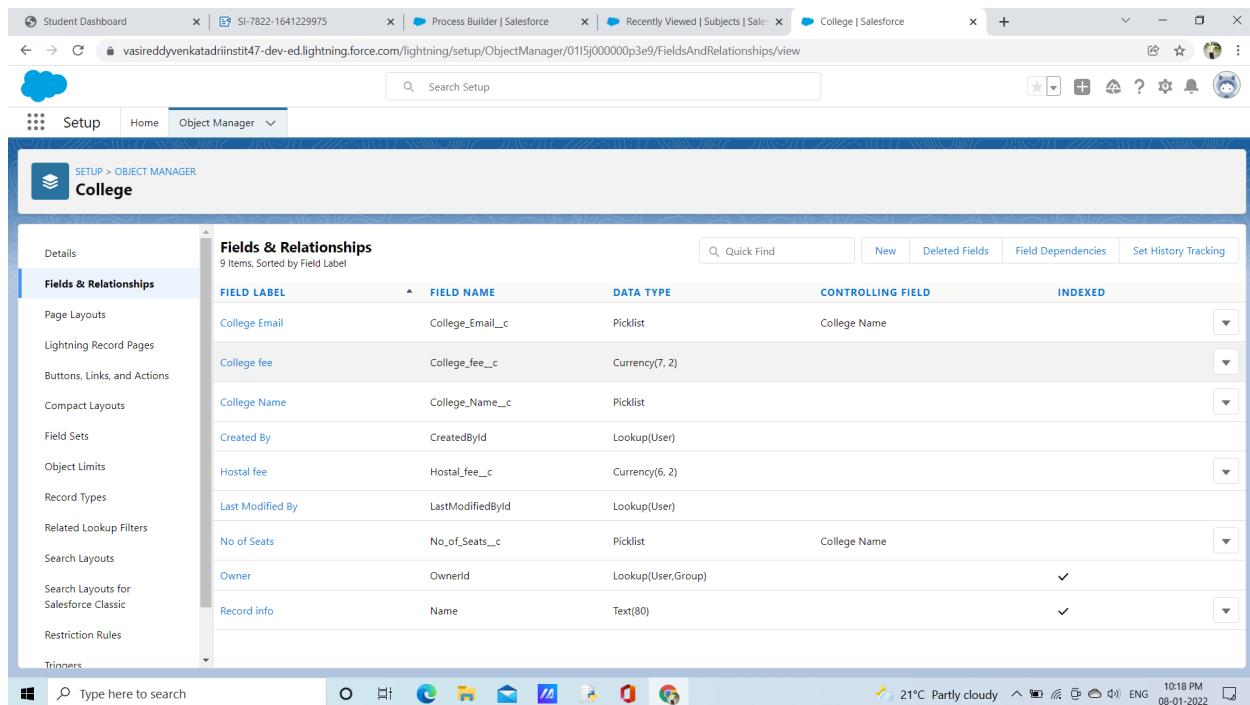
Field Name	Data Type	Required	Values
Student Name	Text		
Address	Text(255)	Yes	
Application Form	Lookup(Application Form)		
College Name	Formula(Text)		
Date Of Birth	Date	Yes	
Guardian Name	Text(30)	Yes	
Phone	Phone	Yes	

Step 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)		

Student Dashboard | SI-7822-1641229975 | Process Builder | Salesforce | Recently Viewed | Subjects | Sales | College | Salesforce



Search Setup

Setup Home Object Manager

College

SETUP > OBJECT MANAGER

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
College Email	College_Email__c	Picklist	College Name	
College fee	College_fee__c	Currency(7, 2)		
College Name	College_Name__c	Picklist		
Created By	CreatedById	Lookup(User)		
Hostal fee	Hostal_fee__c	Currency(6, 2)		
Last Modified By	LastModifiedById	Lookup(User)		
No of Seats	No_of_Seats__c	Picklist	College Name	
Owner	OwnerId	Lookup(User, Group)		✓
Record info	Name	Text(80)		✓

Details

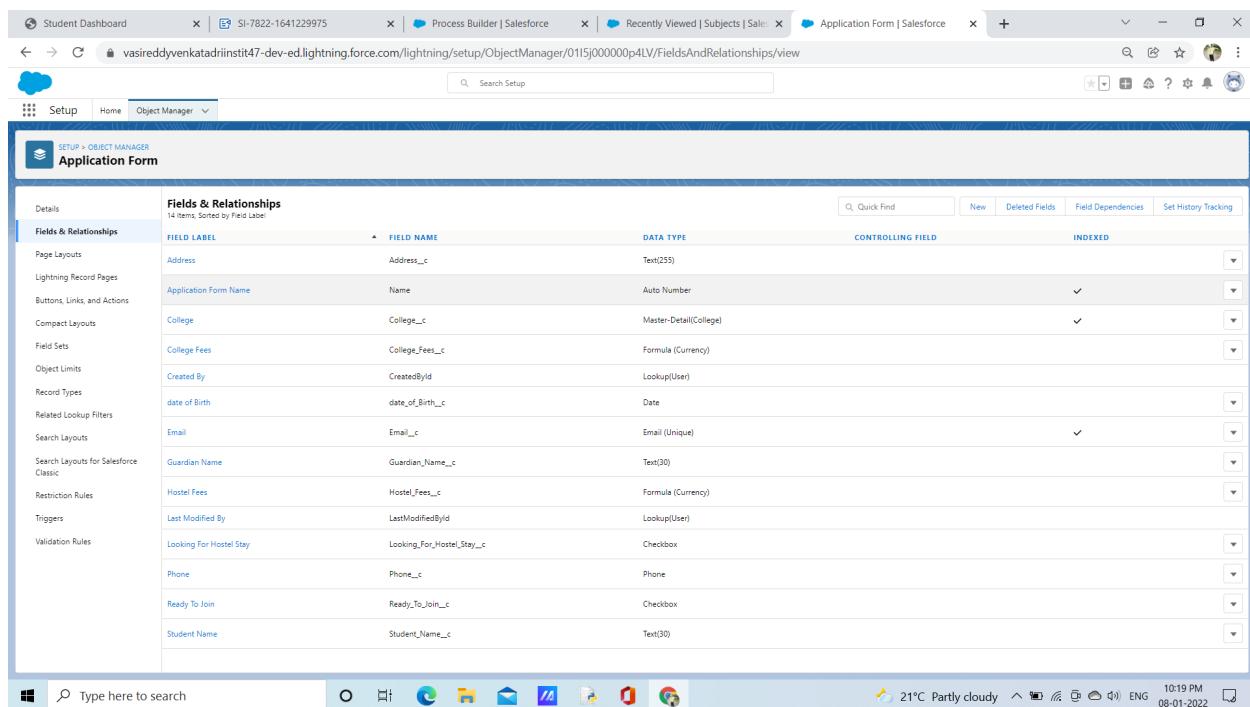
Fields & Relationships

- 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

Type here to search

21°C Partly cloudy 10:18 PM 08-01-2022

Student Dashboard | SI-7822-1641229975 | Process Builder | Salesforce | Recently Viewed | Subjects | Sales | Application Form | Salesforce



Search Setup

Setup Home Object Manager

Application Form

SETUP > OBJECT MANAGER

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(255)		
Application Form Name	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(20)		
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)		

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

Type here to search

21°C Partly cloudy 10:19 PM 08-01-2022

Student Dashboard | SI-7822-1641229975 | Process Builder | Salesforce | Recently Viewed | Subjects | Sale... | Student | Salesforce

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER Student

Details

Fields & Relationships

10 Items, Sorted by Field Label

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)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		
Phone	Phone__c	Phone		
Student Name	Name	Text(80)		

Type here to search

21°C Partly cloudy 10:19 PM 08-01-2022

Student Dashboard | SI-7822-1641229975 | Process Builder | Salesforce | Recently Viewed | Subjects | Sale... | Subjects | Salesforce

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER Subjects

Details

Fields & Relationships

6 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedBy	Lookup(User)		
Last Modified By	LastModifiedBy	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		
Paper 1	Paper_1__c	Picklist		
Paper2	Paper2__c	Picklist		
Subject ID Name	Name	Auto Number		

Type here to search

21°C Partly cloudy 10:19 PM 08-01-2022

- DAY 3 :

Topic :Adding Business Logic To Application

Milestone / Activities :

1. Creating Global Picklist Value Sets
2. Creating Field Dependencies
3. Creating Validation Rules

Detailed Description :

Step 1 :

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

Step 2 :

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.

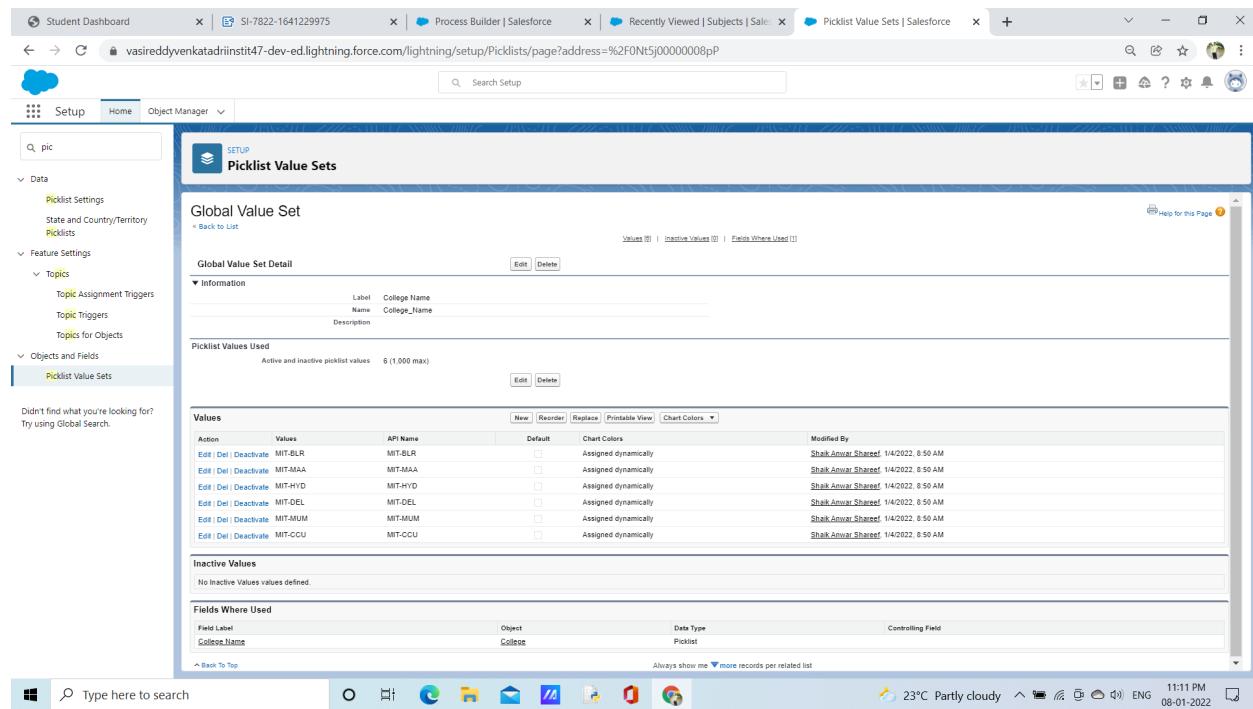
Step 3 :

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( DateOfBirth__c ),  
ISCHANGED( Email__c ),  
ISCHANGED( GuardianName__c ),  
ISCHANGED( Phone__c )  
)  
)
```

Step 4 :

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.



Student Dashboard SI-7822-1641229975 Process Builder | Salesforce Recently Viewed | Subjects | Sales Picklist Value Sets | Salesforce

Setup Home Object Manager Search Setup

pic

SETUP Picklist Value Sets

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)

Action	Values	API Name	Default	Chart Colors	Modified By
Edit Delete	APEX	APEX	<input type="checkbox"/>	Assigned dynamically	Shak Anwar Shared 1/8/2022, 9:40 AM
Edit Delete	JAVA	JAVA	<input type="checkbox"/>	Assigned dynamically	Shak Anwar Shared 1/8/2022, 9:40 AM
Edit Delete	C	C	<input type="checkbox"/>	Assigned dynamically	Shak Anwar Shared 1/8/2022, 9:40 AM
Edit Delete	C++	C++	<input type="checkbox"/>	Assigned dynamically	Shak Anwar Shared 1/8/2022, 9:40 AM

Values

New Reorder Replace Printable View Chart Colors

Inactive Values

No Inactive Values defined

Fields Where Used

No records to display

Always show me more records per related list

Back To Top

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Student Dashboard SI-7822-1641229975 Process Builder | Salesforce Recently Viewed | Subjects | Sales Picklist Value Sets | Salesforce

Setup Home Object Manager Search Setup

pic

SETUP Picklist Value Sets

Global Value Set

Global Value Set Detail

Information

Label	Paper 2
Name	Paper_2
Description	

Picklist Values Used

Active and inactive picklist values 3 (1,000 max)

Action	Values	API Name	Default	Chart Colors	Modified By
Edit Delete	MATHEMATICS	MATHEMATICS	<input type="checkbox"/>	Assigned dynamically	Shak Anwar Shared 1/8/2022, 9:40 AM
Edit Delete	ENGLISH	ENGLISH	<input type="checkbox"/>	Assigned dynamically	Shak Anwar Shared 1/8/2022, 9:40 AM
Edit Delete	STATISTICS	STATISTICS	<input type="checkbox"/>	Assigned dynamically	Shak Anwar Shared 1/8/2022, 9:40 AM

Values

New Reorder Replace Printable View Chart Colors

Inactive Values

No Inactive Values defined

Fields Where Used

No records to display

Always show me more records per related list

Back To Top

23°C Partly cloudy ENG 11:12 PM 08-01-2022

Student Dashboard | SI-7822-1641229975 | Process Builder | Salesforce | Recently Viewed | Subjects | Sales | College | Salesforce

Search Setup

College

Edit Field Dependency

Controlling Field: College Name
Dependent Field: College Email

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 (Yellow), Included Value (Grey)

College Name:	MIT-BLR	MIT-MAA	MIT-HYD	MIT-DEL	MIT-MUM
College Email:	mit@hyd.com mit@blr.com mit@ccu.com mit@maa.com mit@mum.com mit@del.com	mit@hyd.com mit@blr.com mit@ccu.com mit@maa.com mit@mum.com mit@del.com	mit@hyd.com mit@blr.com mit@ccu.com mit@maa.com mit@mum.com mit@del.com	mit@hyd.com mit@blr.com mit@ccu.com mit@maa.com mit@mum.com mit@del.com	mit@hyd.com mit@blr.com mit@ccu.com mit@maa.com mit@mum.com mit@del.com

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

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

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

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

Save | Cancel | Preview

Student Dashboard | SI-7822-1641229975 | Process Builder | Salesforce | Recently Viewed | Subjects | Sales | College | Salesforce

Search Setup

College

Edit Field Dependency

Controlling Field: College Name
Dependent Field: No of Seats

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 (Yellow), Included Value (Grey)

College Name:	MIT-BLR	MIT-MAA	MIT-HYD	MIT-DEL	MIT-MUM
No of Seats:	500-1000 1000-1500 1500-3000 3000-8000 8000-12000	500-1000 1000-1500 1500-3000 3000-8000 8000-12000	500-1000 1000-1500 1500-3000 3000-8000 8000-12000	500-1000 1000-1500 1500-3000 3000-8000 8000-12000	500-1000 1000-1500 1500-3000 3000-8000 8000-12000

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

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

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

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

Save | Cancel | Preview

The screenshot shows the Salesforce Setup interface for the 'College' object. The left sidebar lists various configuration options like Details, Fields & Relationships, Page Layouts, and Record Types. The main content area displays the 'Validation Rule Detail' for the 'College' object. The rule is named 'College_Name_similar' and has the formula `TEXT(College__Name__c) <> Name`. The error message is 'Please Use The college Name in Record info'. The rule is active and was created by Shaik Anwar Shareef on 1/4/2022 at 10:15 AM. The modified date is 1/4/2022 at 10:25 AM. The status bar at the bottom indicates it's 23°C, Partly cloudy, and the date is 08-01-2022.

The screenshot shows the Salesforce Setup interface for the 'Application Form' object. The left sidebar lists various configuration options. The main content area displays the 'Validation Rule Detail' for the 'Application Form' object. The rule is named 'Application_does_Not_Change' and has the 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))`. The error message is 'Once the student record is created in Application form does not change.' The rule is active and was created by Shaik Anwar Shareef on 1/8/2022 at 8:16 AM. The modified date is 1/8/2022 at 8:16 AM. The status bar at the bottom indicates it's 23°C, Partly cloudy, and the date is 08-01-2022.

● DAY 4 :

Topic :Adding Business Logic To Application

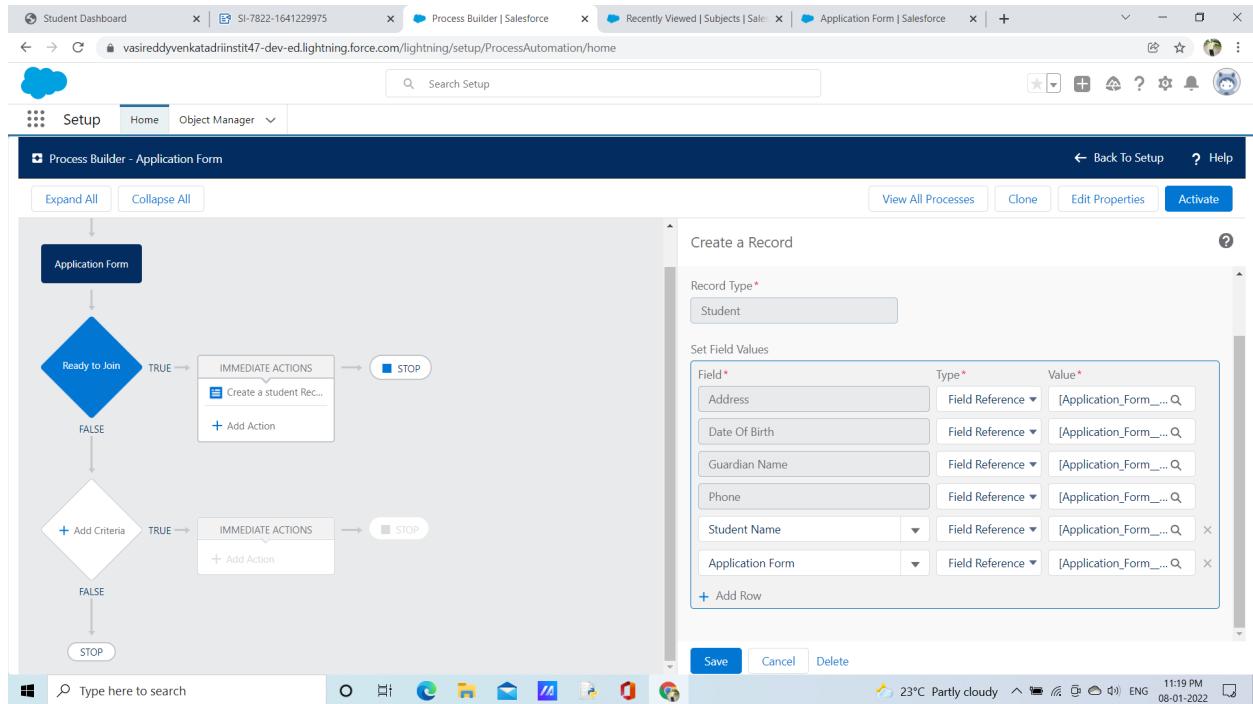
Milestone / Activities :

4.Process Automation

Detailed Description :

Step 1 :

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.



- DAY 5 :

Topic :Adding Business Logic To Application

Milestone / Activities :

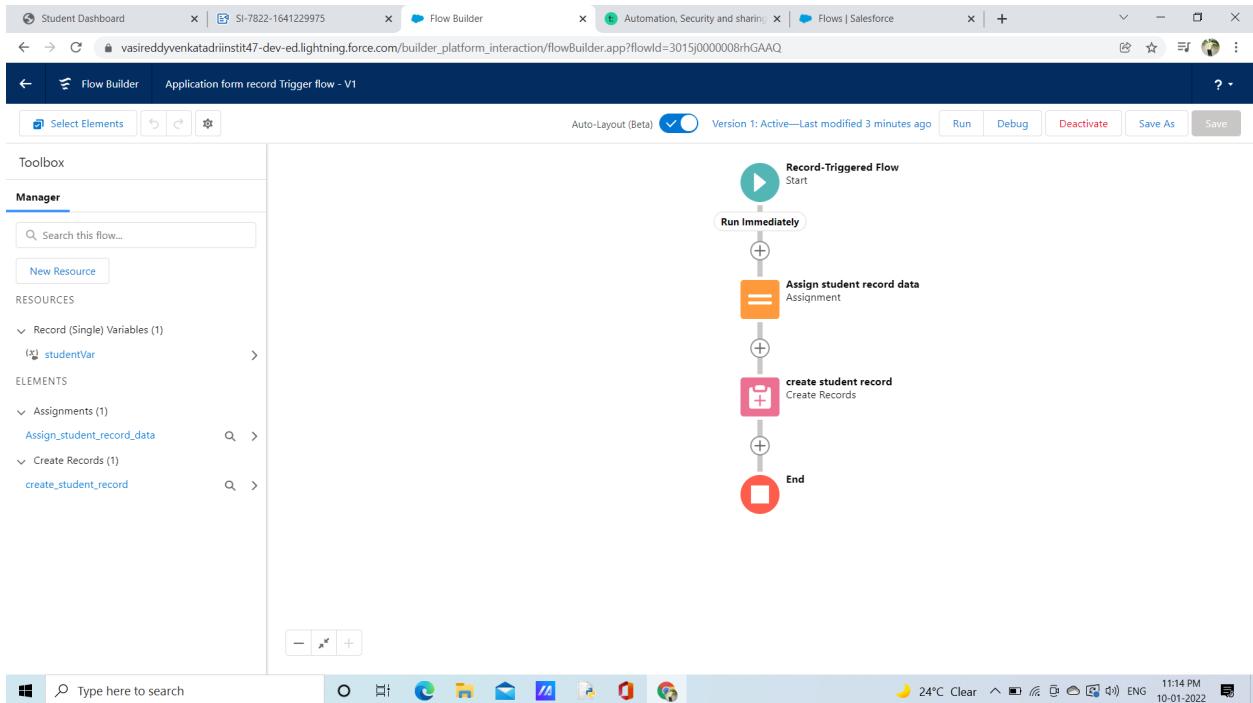
5. Create The Student Record Using Flow

Detailed Description :

Step 1 :

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.



- DAY 6 :

Topic :Batch Apex

Milestone / Activities :

1. Create A Batchapex For Application Form
2. Create A Schedular Class

Detailed Description :

Step 1 :

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[] emailAddess = new String[]{'your email address'};
    mail.setToAddresses(emailAddess);
    Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail });
}
}

```

Step 2 :

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.

```

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     }
}

```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name Line Problem

Type here to search

21°C Light rain ENG 11:29 PM 11-01-2022

Developer Console - Google Chrome
 vasireddyvenkatadriinst47-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

applicationschedule.apxc ApplicationBatchTest.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
14 }
15
  
```

Logs Tests Checkpoints Query Editor View State Progress **problems**

Name Line Problem

Type here to search 21°C Light rain ENG 11-01-2022

Login | Salesforce Recently Viewed | Colleges | Sales Apex Classes | Salesforce

Setup Home Object Manager

Search Setup

Apex Classes

Apex Class ApplicationBatchTest

Apex Class Detail

Name	ApplicationBatchTest	Status	Active
Namespace Prefix		Code Coverage	0% (0/17)
Created By	Shail Anwar Shareef, 1/11/2022, 9:02 AM	Last Modified By	Shail Anwar Shareef, 1/11/2022, 9:37 AM

Class Body Class Summary Version Settings Trace Flags

```

1 public class ApplicationBatchTest implements Database.Batchable<Object>.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__c> formList){
9         for(Application__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 toAddress='newstudent@your_email_address';
21         mail.setToAddress(toAddress);
22         Messaging.sendEmail(new Messaging.SingleEmailMessage[] {mail });
23     }
  
```

Type here to search 30°C ENG 04:58 PM 17-01-2022

The screenshot shows the Salesforce Setup interface with the following details:

- Apex Class Detail:**
 - Name: applicationschedule
 - Namespace Prefix: (None)
 - Created By: Shaik Anwar Shareef, 1/11/2022, 9:49 AM
 - Status: Active
 - Code Coverage: 0% (0/3)
 - Last Modified By: Shaik Anwar Shareef, 1/11/2022, 9:49 AM
- Class Body:**

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


The screenshot shows the Salesforce Setup interface with the following details:

- Apex Jobs:**
 - Action: Submitted Date: 1/11/2022, 9:54 AM, Job Type: Scheduled Apex, Status: Queued
 - Total Batches: 0, Batches Processed: 0, Failures: 0
 - Submitted By: Anwar Shareef, Shaik
 - Completion Date: (None)
 - Apex Class: applicationschedule
 - Apex Method: (None)
 - Apex Job ID: 7075f00000cdBIR

● DAY 7 :

Topic : Lightning Web Components

Milestone / Activities :

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

Detailed Description :

Steo 1:

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 Collegeld)
    {

        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 =:Collegeld];

        return formList;
    }
}
```

```
}
```

Step 2 :

```
<template>

    <h1> College and Application form list table </h1>

    <template if:true={recordList}>
        <lightning-datable
            key-field="id"
            data={recordList}
            show-row-number-column
            hide-checkbox-column
            columns={columnsList}
        >
    </lightning-datable>
    </template>

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

Step 3 :

```
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, {CollegId : '$recordId'})
wiredCollegeData({data, error}){
    if(data){
        this.recordList = data;
    }
    else if(error){
        this.error = error;
        this.recordList = undefined;
    }
}
}

```

Step 4 :

```

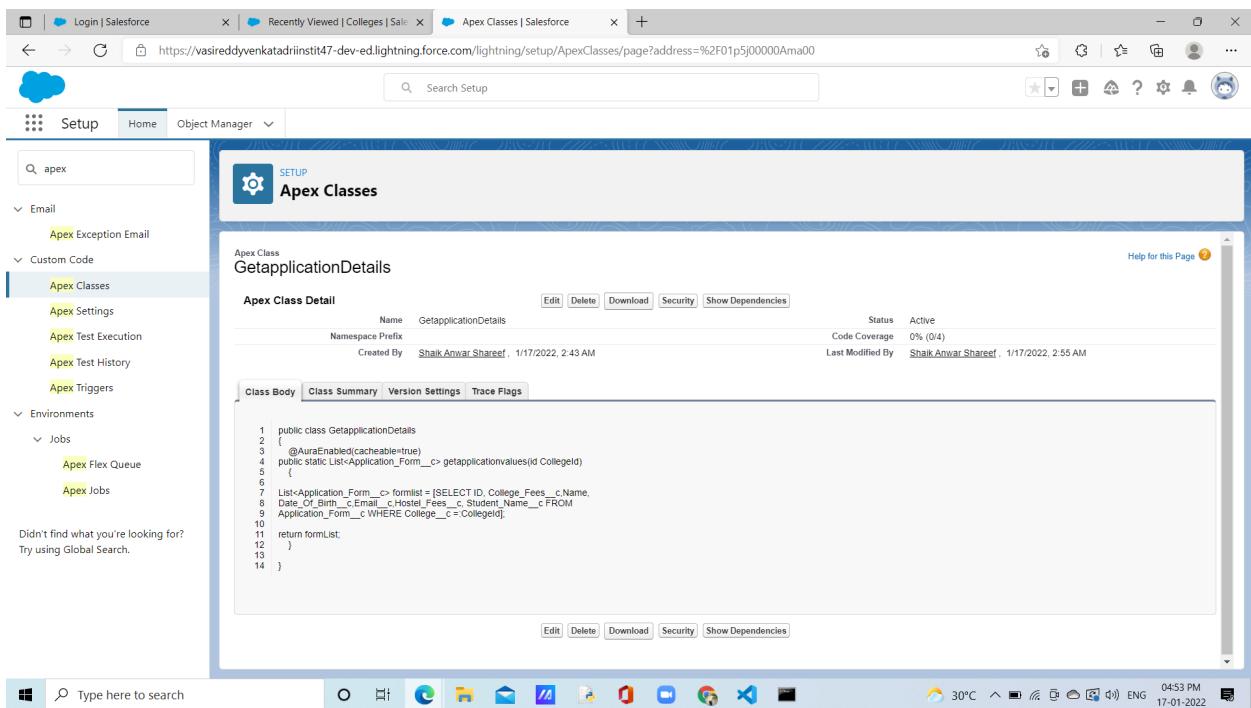
<?xml version="1.0"?>
<LightningComponentBundle
xmlns="http://soap.sforce.com/2006/04/metadata">
<apiVersion>51.0</apiVersion>

```

```

<isExposed>true</isExposed>
<targets>
    <target>lightning__RecordPage</target>
    <target>lightning__AppPage</target>
    <target>lightning__HomePage</target>
</targets>
</LightningComponentBundle>

```



File Edit Selection View Go Run Terminal Help myfristlwc.html - collegeManagement - Visual Studio Code

EXPLORER ... myfristlwc.html JS myfristlwc.js myfristlwc.js-meta.xml

COLLEGE MANAGEMENT > indexes > orgs > tools > typings > sfdx-config.json > .vscode > config > force-app\main\default > applications > aura > classes > ApplicationBatchTest.cls > ApplicationBatchTest.cls-meta.xml > applicationschedule.cls > applicationschedule.cls-meta.xml > GetapplicationDetails.cls > GetapplicationDetails.cls-meta.xml > contentassetsets > flexipages > layouts > lwc > myfristlwc > myfristlwc.html > myfristlwc.js > myfristlwc.js-meta.xml > .eslintrc.json > jsconfig.json > objects > permissionsets > staticresources

```

1 <template>
2   <h1> College and Application form list table </h1>
3
4   <template if:true={recordList}>
5     <lightning-dataTable
6       key-field="id"
7       data={recordList}
8       show-row-number-column
9       hide-checkbox-column
10      columns={columnsList}
11    >
12  </template>
13
14  <template if:true={error}>
15    | <error>
16  </template>
17
18 </template>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Salesforce CLI

ApplicationBatchTest ApexClass force-app\main\default\classes\ApplicationBatchTest.cls-meta.xml
GetapplicationDetails ApexClass force-app\main\default\classes\GetapplicationDetails.cls
GetapplicationDetails ApexClass force-app\main\default\classes\GetapplicationDetails.cls-meta.xml
applicationschedule ApexClass force-app\main\default\classes\applicationschedule.cls
applicationschedule ApexClass force-app\main\default\classes\applicationschedule.cls-meta.xml

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

Ln 18, Col 12 Spaces: 4 UTF-8 LF HTML △ Prettier

Type here to search

File Edit Selection View Go Run Terminal Help myfristlwc.js - collegeManagement - Visual Studio Code

EXPLORER ... myfristlwc.html JS myfristlwc.js myfristlwc.js-meta.xml

COLLEGE MANAGEMENT > indexes > orgs > tools > typings > sfdx-config.json > .vscode > config > force-app\main\default > applications > aura > classes > ApplicationBatchTest.cls > ApplicationBatchTest.cls-meta.xml > applicationschedule.cls > applicationschedule.cls-meta.xml > GetapplicationDetails.cls > GetapplicationDetails.cls-meta.xml > contentassetsets > flexipages > layouts > lwc > myfristlwc > myfristlwc.html > myfristlwc.js > myfristlwc.js-meta.xml > .eslintrc.json > jsconfig.json > objects > permissionsets > staticresources

```

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 }
27
28

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Salesforce CLI

ApplicationBatchTest ApexClass force-app\main\default\classes\ApplicationBatchTest.cls-meta.xml
GetapplicationDetails ApexClass force-app\main\default\classes\GetapplicationDetails.cls
GetapplicationDetails ApexClass force-app\main\default\classes\GetapplicationDetails.cls-meta.xml
applicationschedule ApexClass force-app\main\default\classes\applicationschedule.cls
applicationschedule ApexClass force-app\main\default\classes\applicationschedule.cls-meta.xml

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

Ln 25, Col 41 Spaces: 4 UTF-8 LF {} JavaScript △ Prettier

Type here to search

File Edit Selection View Go Run Terminal Help myfristlwcjs-meta.xml - collegeManagement - Visual Studio Code

EXPLORER myfristlwc.html myfristlwcjs myfristlwcjs-meta.xml

COLLEGE MANAGEMENT force-app main > default > lwc > myfristlwc > myfristlwcjs > LightningComponentBundle

```

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>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Allah\OneDrive\Desktop\collegeManagement> fwd-i-search: _

Ln 11, Col 28 Spaces: 4 UTF-8 LF XML △ Prettier

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https://vasireddyvenkatadriinstit47-dev-ed.lightning.force.com/lightning/setup/LightningComponentBundles/home

Setup Home Service Setup Assistant Multi-Factor Authentication Assistant Release Updates Lightning Experience Transition Assistant New Salesforce Mobile App QuickStart Lighting Usage Optimizer ADMINISTRATION Users Data Email PLATFOR

Lightning Components

A Lightning component is a compact, configurable, and reusable element. Use components to build apps and custom pages. The Lightning Component framework has two development models: Aura is the original model. Lightning Web Components (LWC) is the newer model. Develop Lightning web components using standard HTML, JavaScript, and CSS.

View: All Create New View

Action	Name	Label	Type	Namespace Prefix	Api Version
Del	myfristlwc	myfristlwc	LWC		52.0

Help for this Page

29°C 05:19 PM 17-01-2022