

Day 1: 04/01/2022,Monday.

Topic: Create your salesforce developer org to get started.

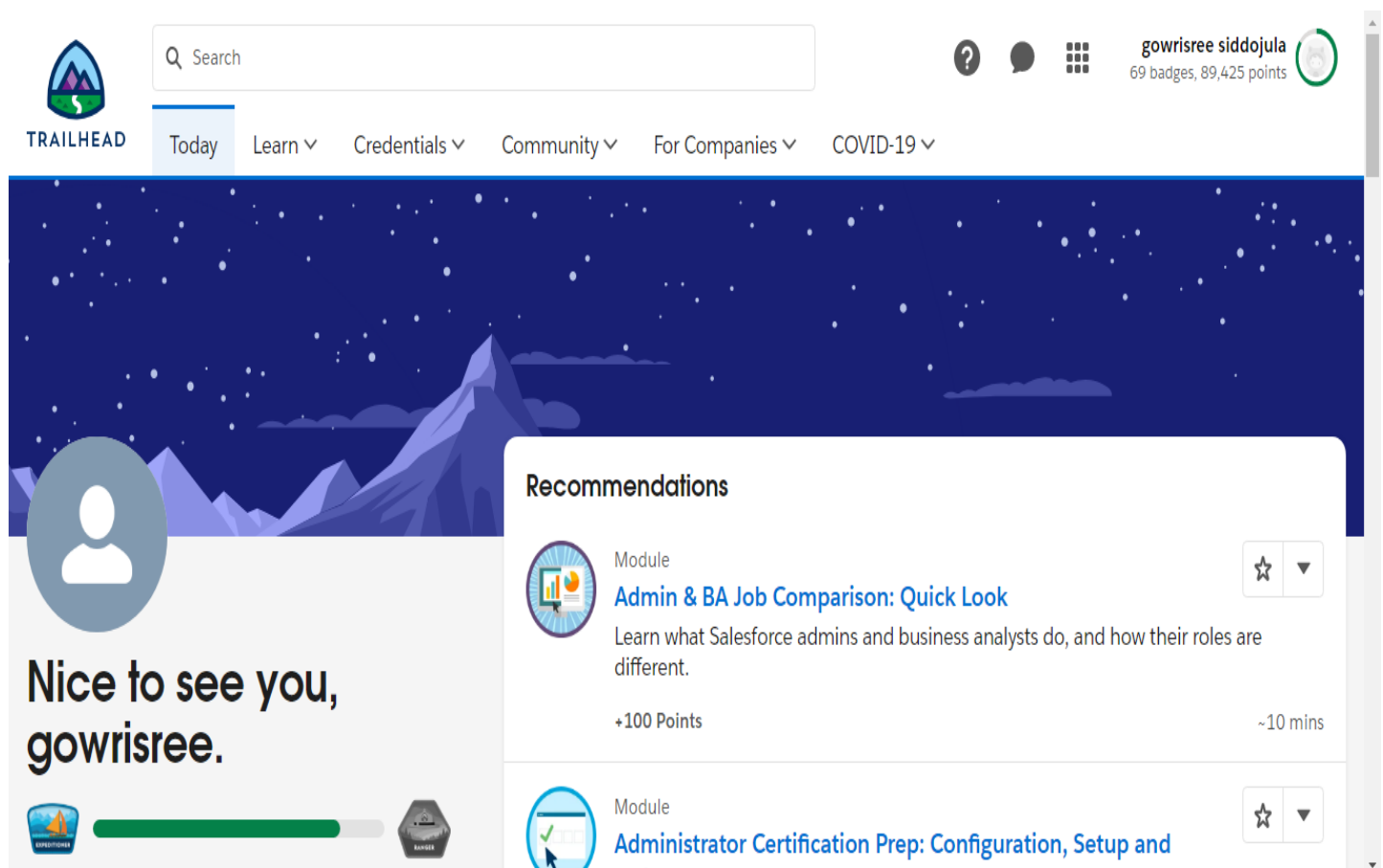
Milestone / Activities: Creating Developer Account.

Account activation.

Login to your salesforce Account.

Detailed Description: Already I have salesforce account. So, directly I have logged into the salesforce account.

Upload the Screenshot of the Milestone / Activities :



Day 2 : 04/01/2022,Tuesday.

Topic: Custom Object Creation.

Milestone / Activities: Create the custom objects for the application.

Create fields on college object.

Create fields on application form object.

Create fields on student object.

Create fields on subject object.

Detailed Description: First I have created the custom objects as mentioned.

After that I have created the required fields for the custom objects below:

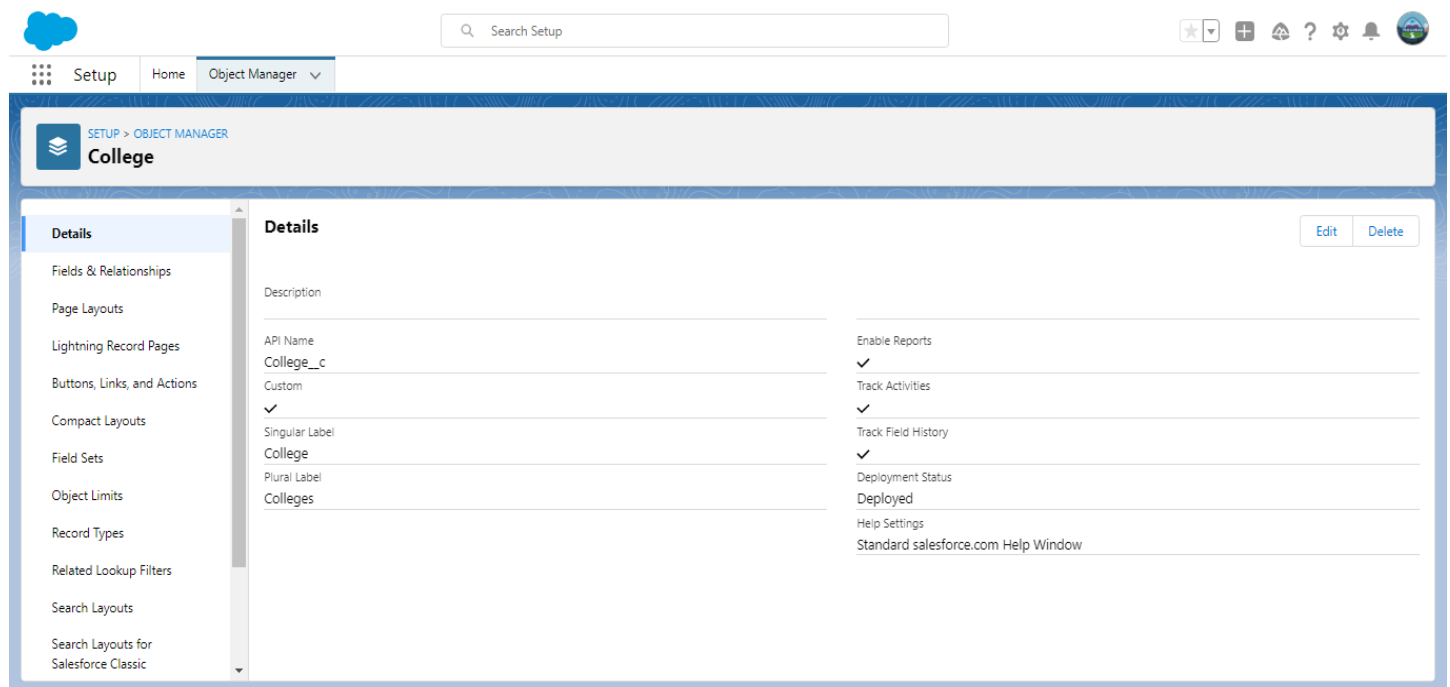
College

Application form

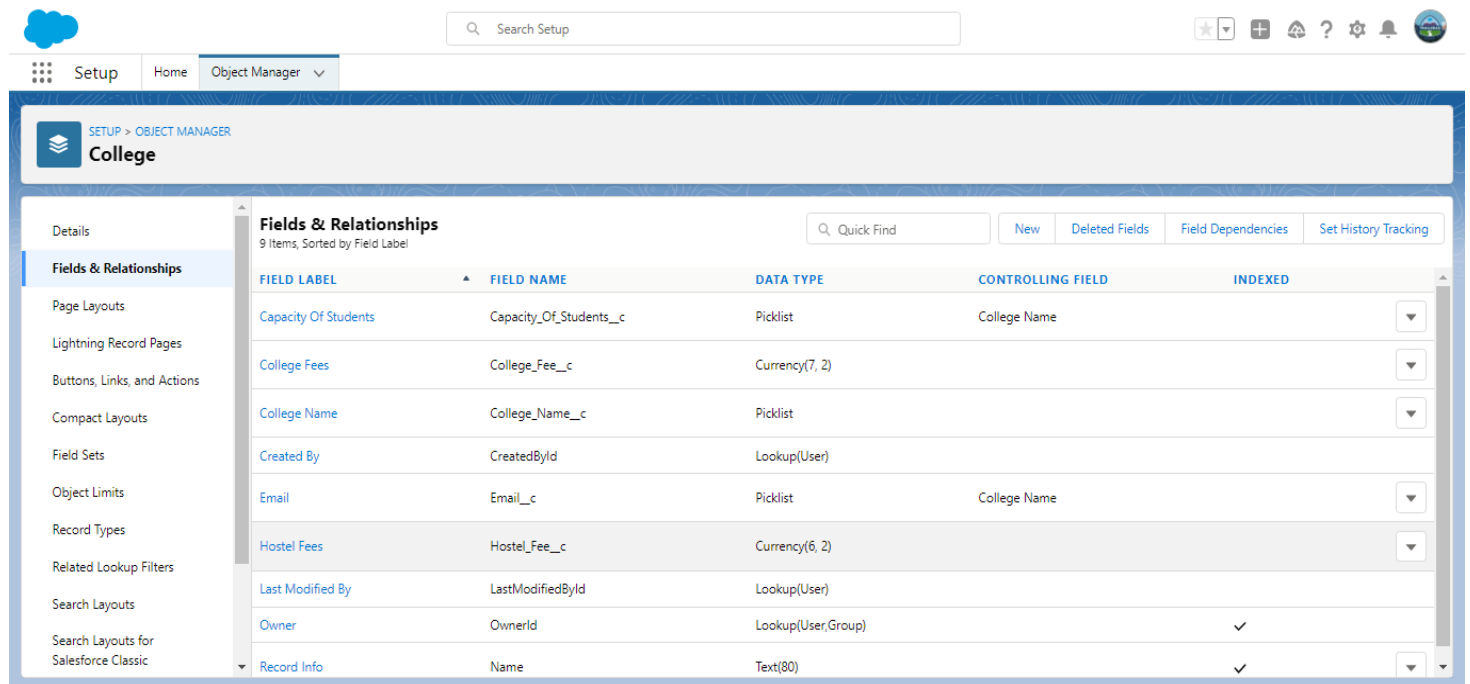
Student

Subject

Upload the Screenshot of the Milestone / Activities :



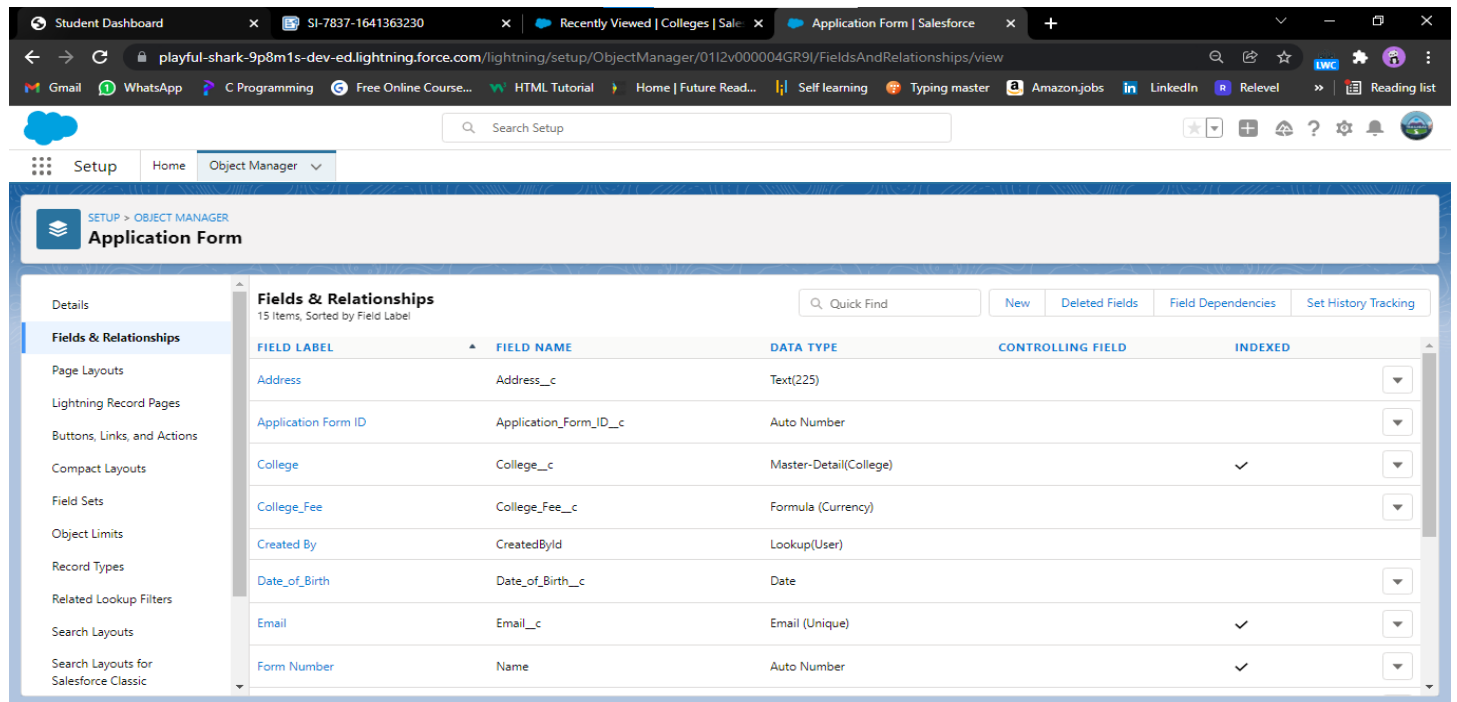
Custom field on College Object:



The screenshot shows the Salesforce Setup interface for the 'College' object. The 'Fields & Relationships' section is active, displaying a list of 9 fields. The fields are sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status.

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

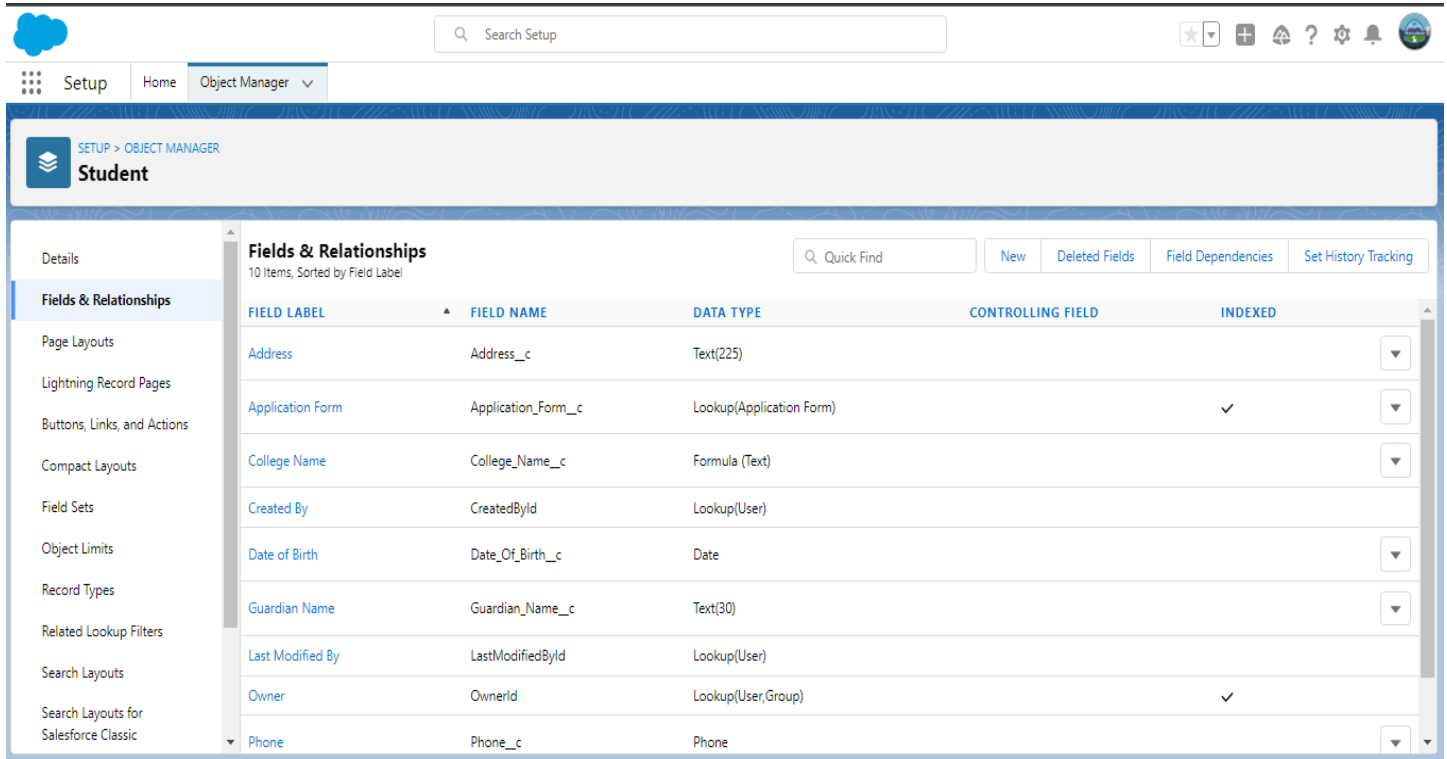
Custom object and fields Creation (Application Form):



The screenshot shows the Salesforce Setup interface for the 'Application Form' object. The 'Fields & Relationships' section is active, displaying a list of 15 fields. The fields are sorted by Field Label. The table includes columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(225)		
Application Form ID	Application_Form_ID__c	Auto Number		
College	College__c	Master-Detail(College)		✓
College Fee	College_Fee__c	Formula (Currency)		
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Email	Email__c	Email (Unique)		✓
Form Number	Name	Auto Number		✓

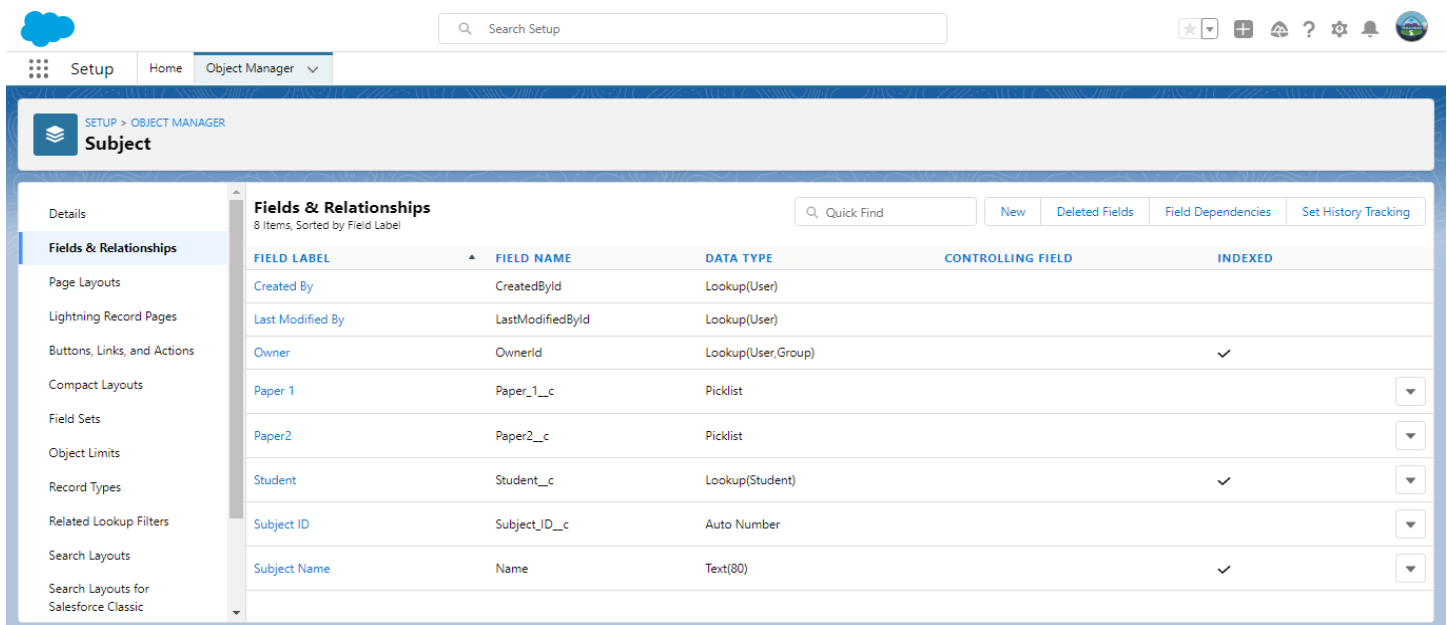
Custom Object Creation of Student Object and its Fields:



The screenshot shows the Salesforce Setup interface for the 'Student' custom object. The 'Fields & Relationships' section is active, displaying a list of 10 fields sorted by label. The fields include Address, Application Form, College Name, Created By, Date of Birth, Guardian Name, Last Modified By, Owner, and Phone. Each field entry shows its label, name, data type, and whether it is indexed or has a controlling field.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Text(225)		
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		

Custom Object Creation of Subject and its Fields:



The screenshot shows the Salesforce Setup interface for the 'Subject' custom object. The 'Fields & Relationships' section is active, displaying a list of 8 fields sorted by label. The fields include Created By, Last Modified By, Owner, Paper 1, Paper2, Student, Subject ID, and Subject Name. Each field entry shows its label, name, data type, and whether it is indexed or has a controlling field.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Paper 1	Paper_1__c	Picklist		
Paper2	Paper2__c	Picklist		
Student	Student__c	Lookup(Student)		✓
Subject ID	Subject_ID__c	Auto Number		
Subject Name	Name	Text(80)		✓

Day 3 : 05/01/2022,Wednesday.

Topic: Adding Business Logic to Application.

Milestone / Activities: Creating Global Picklist Value Sets.
Creating Field Dependencies.
Creating Validation Rules.
Process Automation.
Create The Student Record Using Flow.

Detailed Description:

- > First I have created global picklist value sets by following the below process.
Setup -> Quick Find box -> picklist value sets -> new, then I have created the required Global Picklist Values.

- > Next I have created the Field Dependencies by following below
process, setup -> object manager -> college -> fields and relationships -> field dependencies -> new.

- > Then I have created validation rules on College and Application Form Objects as follows,
setup -> object manager-> college -> validation rules -> new.

- > After that I have created a Process named Create Student record as follows,
setup -> quick find -> process builder -> new -> created as per the requirements for the project.

- > At last I have created a Record trigger Flow as mentioned below:
Setup -> Quick find -> Flow -> NewFlow -> Record triggerFlow.

Upload the Screenshot of the Milestone / Activities :

Global PicklistValue Sets :

The screenshot shows the Salesforce Setup interface for Global Picklist Value Sets. The left sidebar contains a search bar with 'pickli' and a navigation menu with 'Data' (Picklist Settings, State and Country/Territory, Picklists) and 'Objects and Fields' (Picklist Value Sets). The main content area is titled 'Picklist Value Sets' and includes a 'View: All' dropdown and a 'Create New View' link. Below this is a table of Global Value Sets with columns for Action, Label, and Description. The table lists several value sets: College, Department, Flavors, Paper1, Paper2, and Region. The Region value set has a description: 'For use in region fields throughout AW's org.' and a link to 'Deleted Global Value Sets (0)'.

Action	Label	Description
Edit Del	College	
Edit Del	Department	
Edit Del	Flavors	
Edit Del	Paper1	
Edit Del	Paper2	
Edit Del	Region	For use in region fields throughout AW's org.
Deleted Global Value Sets (0)		

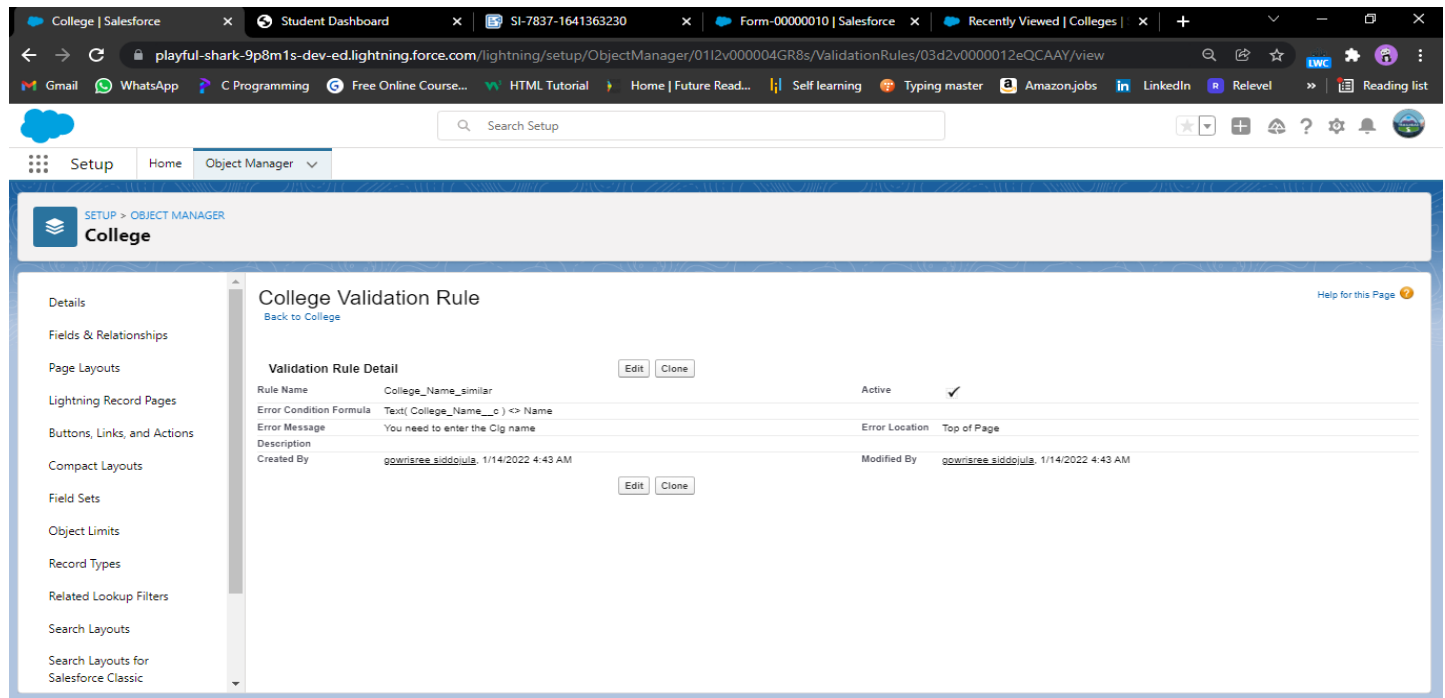
Field Dependencies :

The screenshot shows the Salesforce Setup interface for College Field Dependencies. The left sidebar contains a search bar with 'College' and a navigation menu with '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', and 'Salesforce Classic'. The main content area is titled 'College Field Dependencies' and includes a 'Back to Custom Object: College' link. Below this is a table of Field Dependencies with columns for Action, Controlling Field, Dependent Field, and Modified By. The table lists two dependencies: College Name to Email and College Name to Capacity Of Students. Both dependencies were modified by 'gowisree.siddola' on 1/14/2022 at 5:18 AM.

Action	Controlling Field	Dependent Field	Modified By
Edit Del	College Name	Email	gowisree.siddola, 1/14/2022 5:18 AM
Edit Del	College Name	Capacity Of Students	gowisree.siddola, 1/14/2022 5:18 AM

Validation Rules :

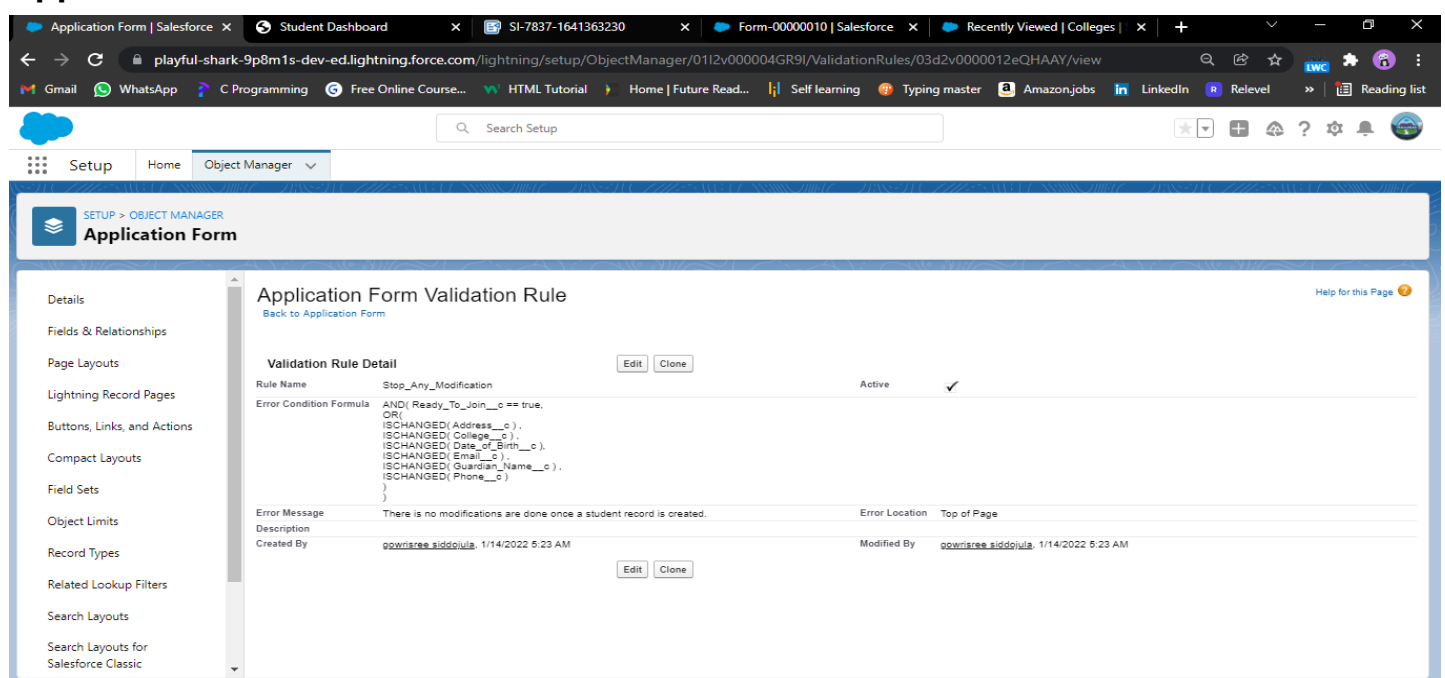
CollegeObject:



The screenshot shows the Salesforce Setup page for the 'College' object. 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, and Search Layouts for Salesforce Classic. The main content area is titled 'College Validation Rule' and includes a 'Back to College' link. Below the title is a 'Validation Rule Detail' section with a table of fields and their values. The table has two columns: 'Field' and 'Value'. The fields are Rule Name, Error Condition Formula, Error Message, Description, Created By, and Modified By. The values are College_Name_similar, Text(College_Name__c) <> Name, You need to enter the Cig name, gowindree.siddiqui@lwc, 1/14/2022 4:43 AM, and gowindree.siddiqui@lwc, 1/14/2022 4:43 AM respectively. There are 'Edit' and 'Clone' buttons next to the Rule Name and Description fields. The 'Active' checkbox is checked.

Field	Value
Rule Name	College_Name_similar
Error Condition Formula	Text(College_Name__c) <> Name
Error Message	You need to enter the Cig name
Description	
Created By	gowindree.siddiqui@lwc, 1/14/2022 4:43 AM
Modified By	gowindree.siddiqui@lwc, 1/14/2022 4:43 AM

Application Form :

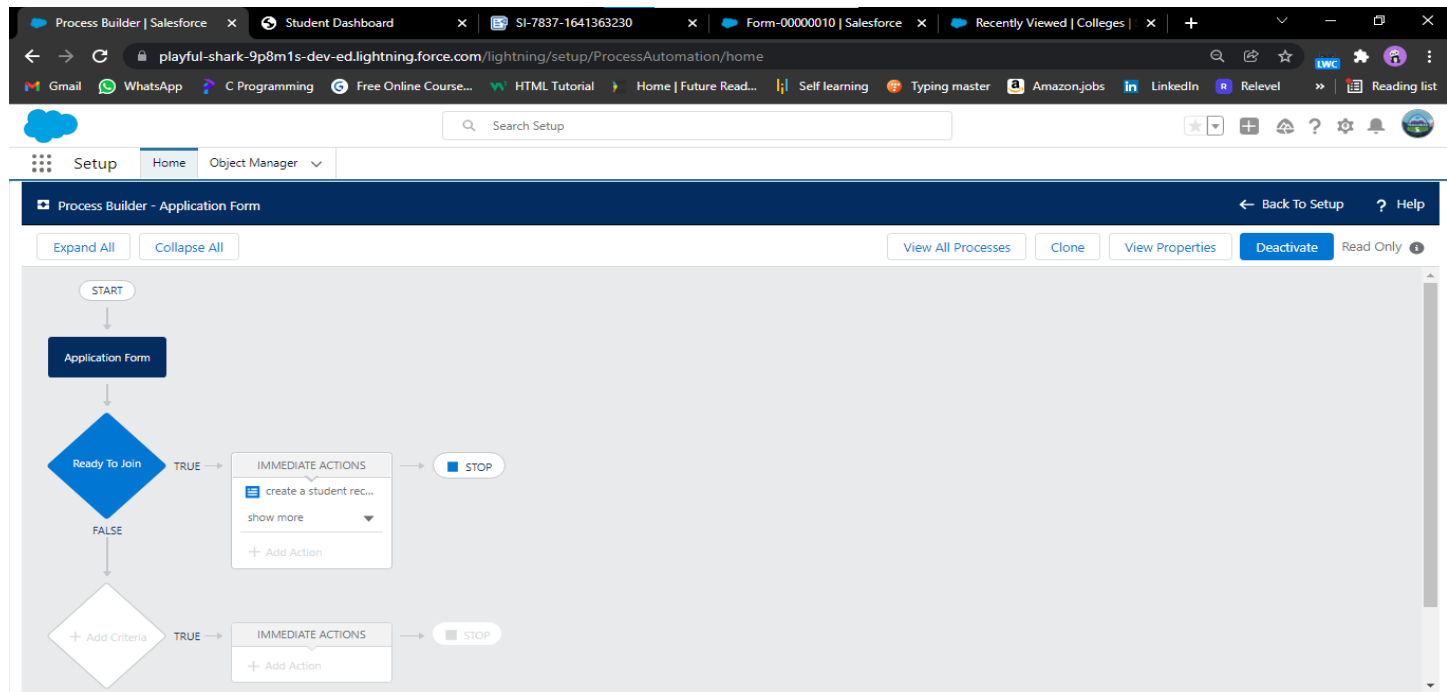


The screenshot shows the Salesforce Setup page for the 'Application Form' object. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and Search Layouts for Salesforce Classic. The main content area is titled 'Application Form Validation Rule' and includes a 'Back to Application Form' link. Below the title is a 'Validation Rule Detail' section with a table of fields and their values. The table has two columns: 'Field' and 'Value'. The fields are Rule Name, Error Condition Formula, Error Message, Description, Created By, and Modified By. The values are Stop_Any_Modification, 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))), There is no modifications are done once a student record is created., gowindree.siddiqui@lwc, 1/14/2022 5:23 AM, and gowindree.siddiqui@lwc, 1/14/2022 5:23 AM respectively. There are 'Edit' and 'Clone' buttons next to the Rule Name and Description fields. The 'Active' checkbox is checked.

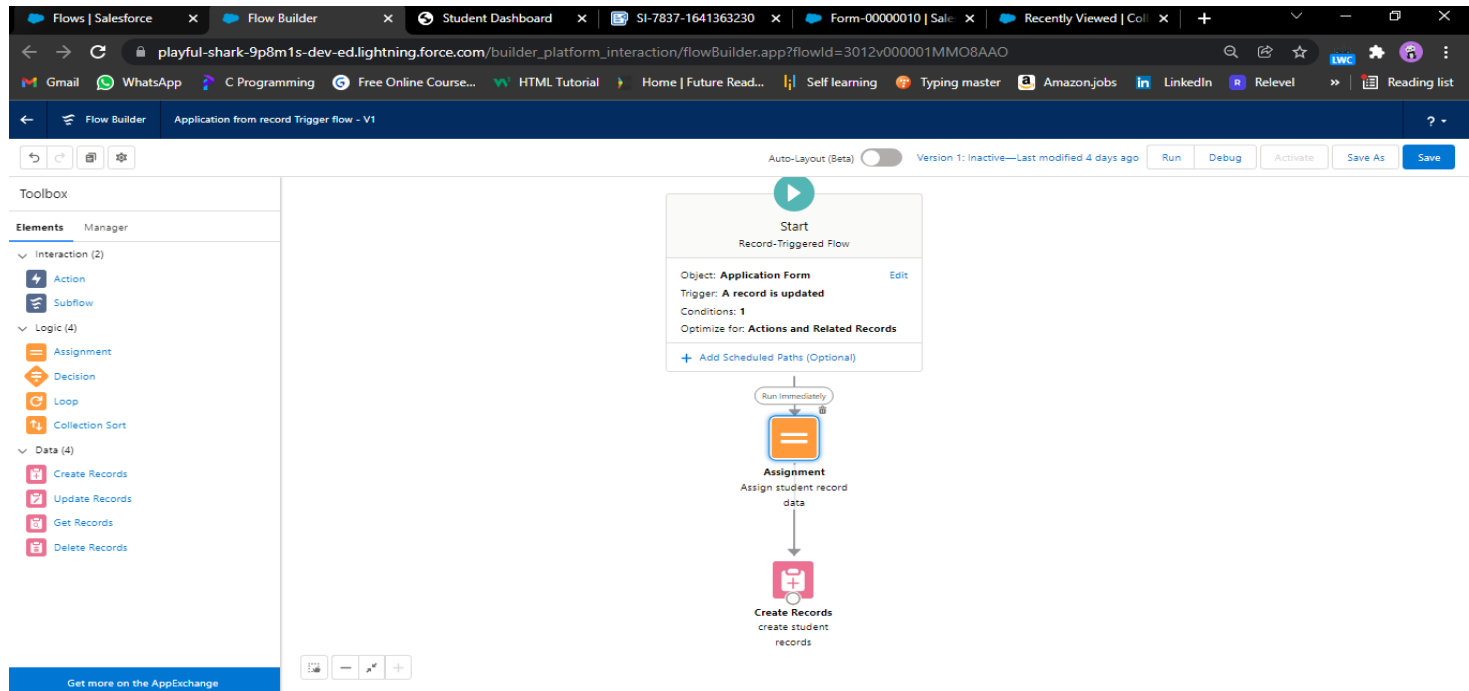
Field	Value
Rule Name	Stop_Any_Modification
Error Condition Formula	AND(Ready_To_Join__c == true, OR(ISCHANGED(Address__c), ISCHANGED(College__c), ISCHANGED(Date_of_Birth__c), ISCHANGED(Email__c), ISCHANGED(Guardian_Name__c), ISCHANGED(Phone__c)))
Error Message	There is no modifications are done once a student record is created.
Description	
Created By	gowindree.siddiqui@lwc, 1/14/2022 5:23 AM
Modified By	gowindree.siddiqui@lwc, 1/14/2022 5:23 AM

Process Automation :

Using ProcessBuilder :



Using Flow Builder :



Day 4 : 06/01/2022,Thursday.

Topic: Batch Apex.

Milestone / Activities : Create a Batch Apex for Application Form.

Create a Scheduler Class.

Detailed Description :

-» First I have created the Batch Apex for Custom Object Application Form as Followed :

Setup -> Developer Console -> New -> Apex Class -> enter code -> save.

-» Now I have created the Scheduler Class as follows :

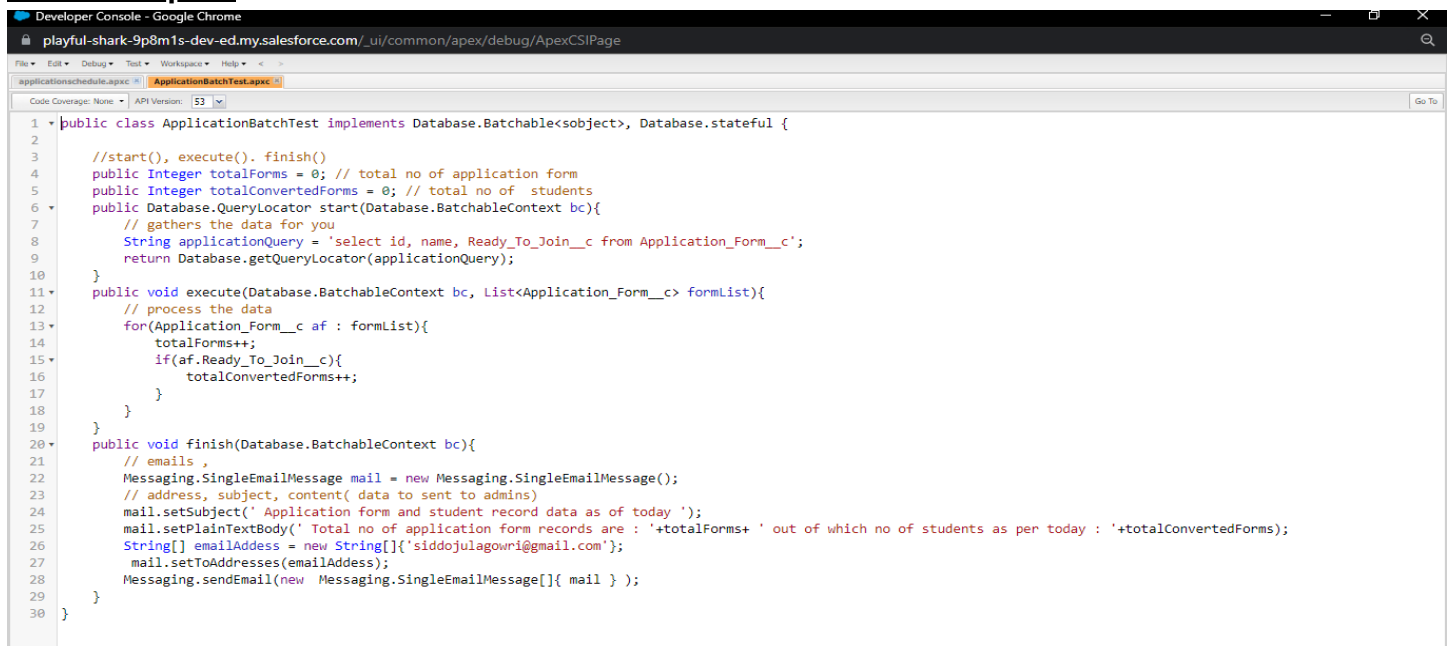
Setup -> Developer Console -> Apex Class -> enter code -> Save.

-> Then created the Schedule job as follows :

**Setup -> Quick find -> Apex classes -> Schedule Apex
-> Filled as per requirement -> Save.**

Upload the Screenshot of the Milestone / Activities :

For Batch apex :

The screenshot shows the Salesforce Developer Console in Google Chrome. The browser address bar displays 'playful-shark-9p8m1s-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage'. The console title is 'Developer Console - Google Chrome'. The code editor shows the 'ApplicationBatchTest.apex' file. The code is as follows:

```
1 public class ApplicationBatchTest implements Database.Batchable<Object>, Database.Stateful {
2
3     //start(), execute(). finish()
4     public Integer totalForms = 0; // total no of application form
5     public Integer totalConvertedForms = 0; // total no of students
6     public Database.QueryLocator start(Database.BatchableContext bc){
7         // gathers the data for you
8         String applicationQuery = 'select id, name, Ready_To_Join__c from Application_Form__c';
9         return Database.getQueryLocator(applicationQuery);
10    }
11    public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
12        // process the data
13        for(Application_Form__c af : formList){
14            totalForms++;
15            if(af.Ready_To_Join__c){
16                totalConvertedForms++;
17            }
18        }
19    }
20    public void finish(Database.BatchableContext bc){
21        // emails
22        Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
23        // address, subject, content( data to sent to admins)
24        mail.setSubject(' Application form and student record data as of today ');
25        mail.setPlainTextBody(' Total no of application form records are : '+totalForms+ ' out of which no of students as per today : '+totalConvertedForms);
26        String[] emailAddress = new String[]{'siddojulagowri@gmail.com'};
27        mail.setToAddresses(emailAddress);
28        Messaging.sendEmail(new Messaging.SingleEmailMessage[] { mail } );
29    }
30 }
```

For Scheduler Apex :

```
Developer Console - Google Chrome
playful-shark-9p8m1s-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     public void execute(SchedulableContext sc){
4         ApplicationBatchTest abt = new ApplicationBatchTest();
5         Database.executeBatch(abt, 400); // 200 to 2000
6     }
7 }
```

For Schedule Job :

Apex Classes | Salesforce x Student Dashboard x SI-7837-1641363230 x Form-00000010 | Salesforce x Recently Viewed | Colleges | x +

playful-shark-9p8m1s-dev-ed.lightning.force.com/lightning/setup/ApexClasses/page?address=%2Fui%2Fsetup%2Fapex%2Fbatch%2FScheduleBatchApexPag...

Gmail WhatsApp C Programming Free Online Course... HTML Tutorial Home | Future Read... Self learning Typing master Amazon.jobs LinkedIn Relevel Reading list

Search Setup

Setup Home Object Manager

Q: sche

▼ 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.

Apex Classes

Schedule Apex

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

Cancel Delete

Job Name: Application Form Job
Apex Class: applicationschedule
Schedule Apex Execution

Frequency: ☒ Weekly ☐ Monthly

Recurr every week on:
☒ Sunday
☐ Monday
☐ Tuesday
☐ Wednesday
☐ Thursday
☐ Friday
☐ Saturday

Start: 1/18/2022 11:00 PM
End: 2/18/2022 11:00 PM
Preferred Start Time: 11:00 PM

Exact start time will depend on job queue activity.

Cancel Delete

Day 12 : 14/01/2022,Thursday.

Topic: Lightning Web Components

Milestone / Activities : Create college Data Table Component (APEX CLASS)

Create college Data Table Component (HTML FILE)

Create college Data Table Component (JAVA SCRIPT FILE)

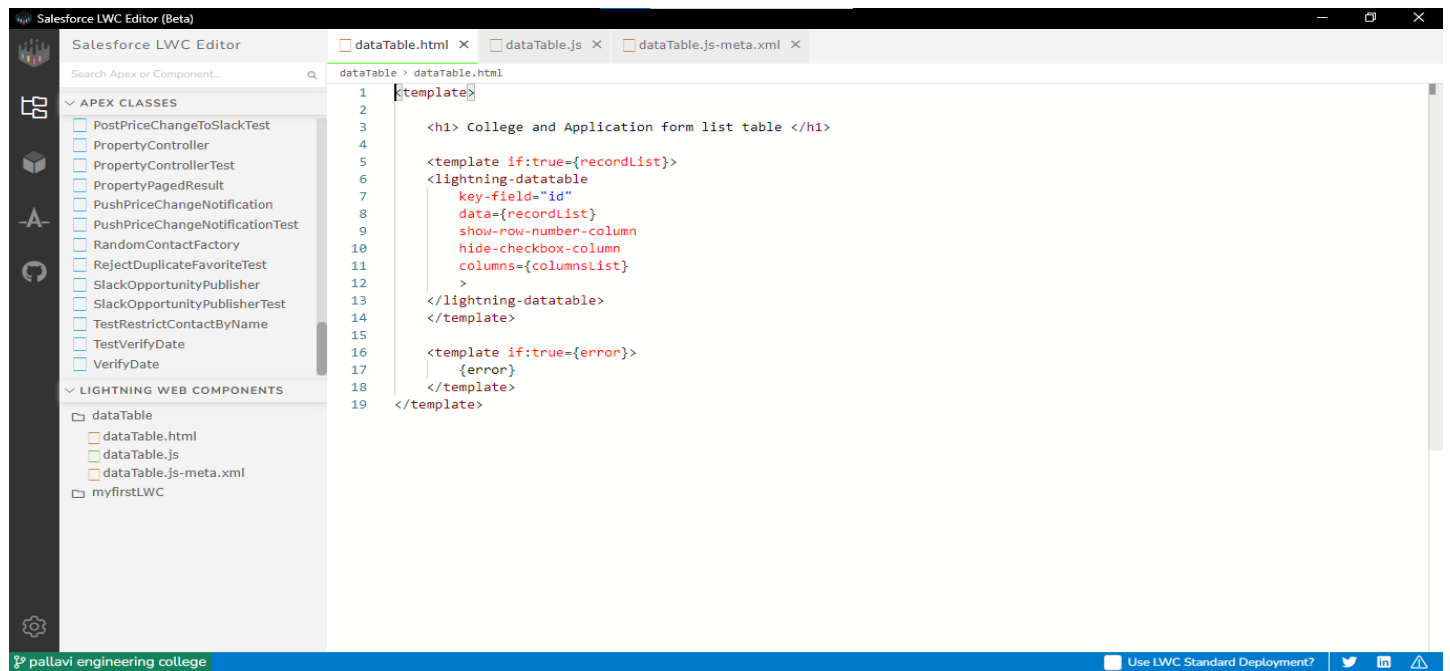
Create college Data Table Component (META FILE)

Detailed Description :

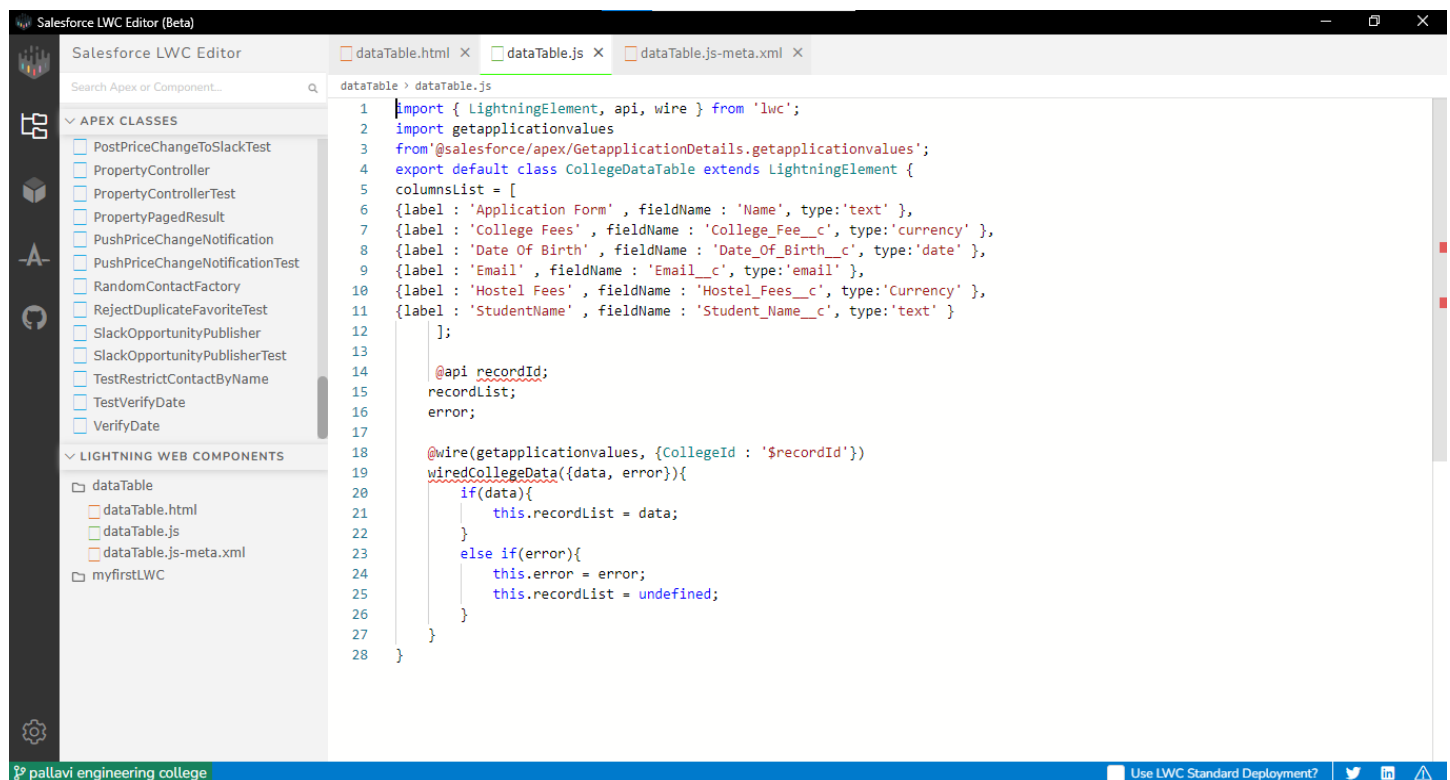
- >> First I have open the salesforce lightning web component extension and added it to the chrome.
- >> After that I have open the lightning web component extension. In that I have created the apex class for DataTable as follows:
Lightning Web Component extension -> Apex Class -> enter code -> save.
- >> Next I have created the new component for datatable as follows:
Lightning Web Component -> New component -> fill as per the requirement-> save.
- >> Then data table is created in lightning web components. Now I have created the html file for DataTable as follows:
Lightning Web Component ->dataTable -> dataTable.html -> enter code -> save.
- >> Next I have created the java script file for DataTable as follows:
Lightning Web Component ->dataTable -> dataTable.js -> enter code -> save.
- >> Finally I have created the meta file for DataTable as follows:
Lightning Web Component ->dataTable -> dataTable.js-meta.xml -> enter code -> save.
- >> Now I have open the Lightning app builder for dropping the data table is as follows:
lightning app builder -> College Record page -> datatable -> drop down as per requirement -> save -> Activate.

Upload the Screenshot of the Milestone / Activities :

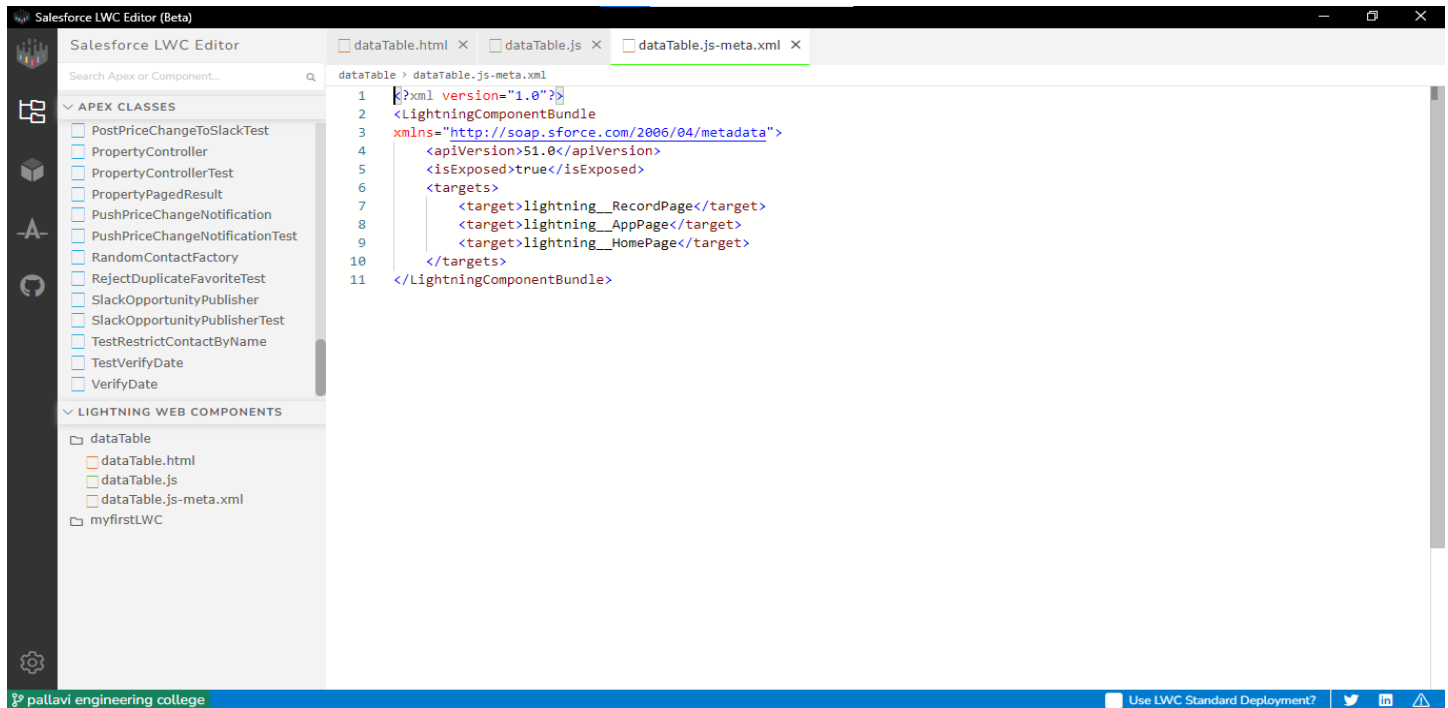
For Html File:



For JS File:



For Meta File:



Data Table:

