

COLLEGE MANAGEMENT APPLICATION

Project Title: College Management Application

Day 1:

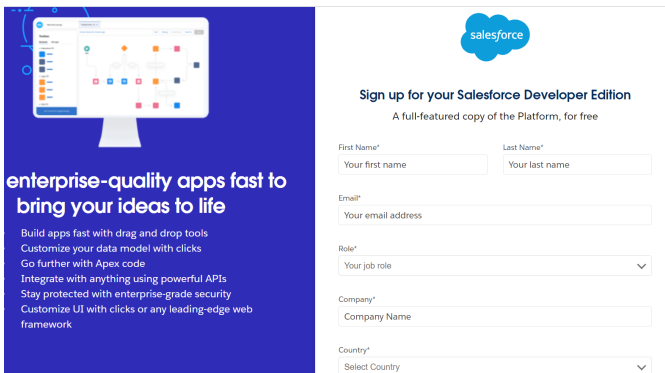
Topic 1: Creating Developer Account

Milestone / Activities: Creating a Developer org Account in salesforce

Detailed Description: We need to go to developer.salesforce.com/ site and need to sign in by entering required details like

1. First name & Last name
2. Email
3. Role
4. Company
5. Country
6. Postal Code
7. Username

Screenshot of the Milestone / Activities:



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First Name*
Your first name

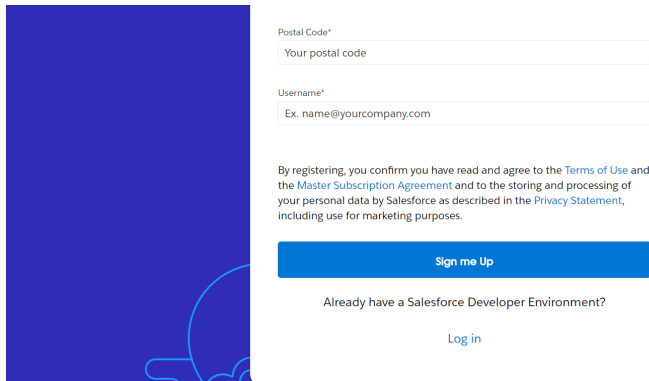
Last Name*
Your last name

Email*
Your email address

Role*
Your job role

Company*
Company Name

Country*
Select Country



Postal Code*

Your postal code

Username*

Ex. name@yourcompany.com

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

[Sign me Up](#)

Already have a Salesforce Developer Environment?

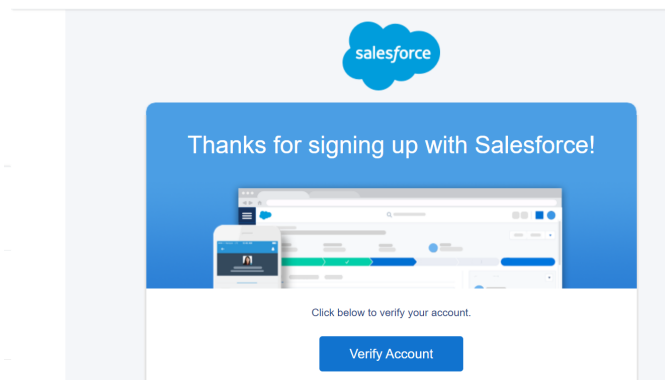
[Log in](#)

Topic 2: Account Activation

Milestones / Activities: Activating our Developer org account.

Detailed Description: We need to activate our developer org account.

Screenshot of the Milestone / Activities:

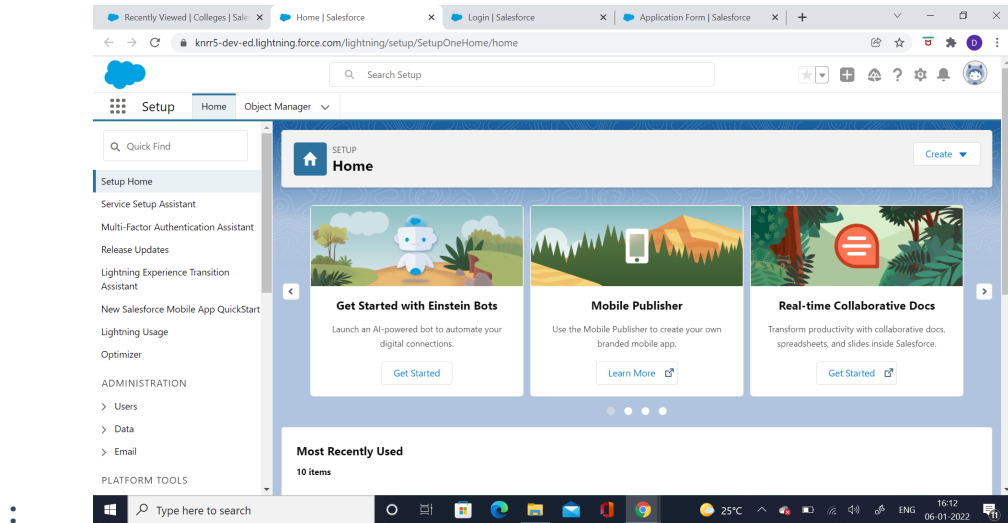


Topic 3: Login to salesforce Account.

Milestones / Activities: Logging into our Salesforce Account.

Detailed Description: We have to go to Salesforce.com and click on login. Enter the username and password that we just received. After logging in, here is the home page which is displayed.

Screenshot of Milestone / Activities:



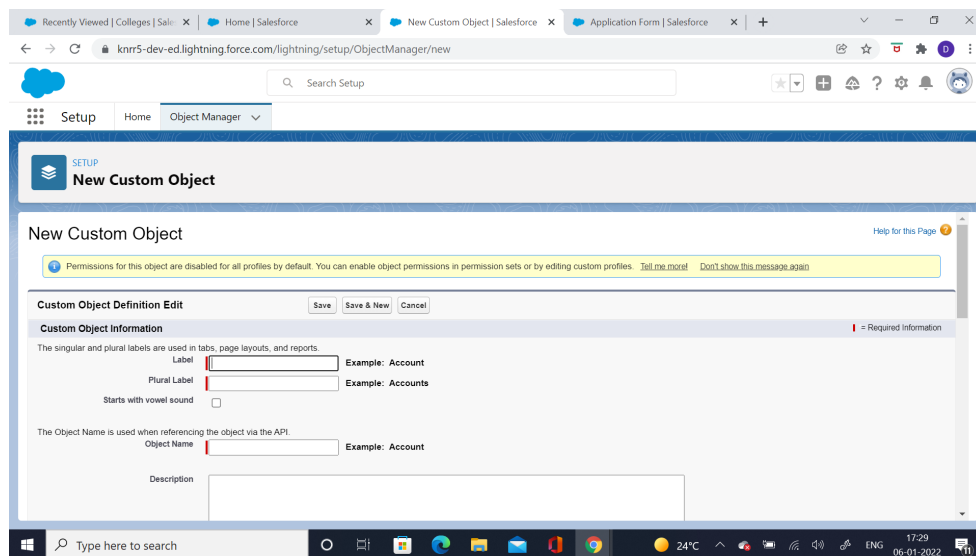
Day 2:

Topic 1: Create Custom Objects For The College Application.

Milestones / Activities: Creating the Custom objects for the College application.

Detailed Description: The Custom objects I have created are: College, Application, students, subjects

Screenshot of Milestone / Activities:



Topic 2: Create Custom fields on College Object.

Milestones / Activities: Creating Custom Field on College Object.

Detailed Description: To create fields on college object

Field Name	Data Type	Values
College Name	Picklist	
College Email	Picklist	
College Fee	Currency	(7,2)
Hostel Fee	Currency	(6,2)
No of Seats	Picklist	

Topic 3: Create Custom Fields on Application Object.

Milestones / Activities: Creating Custom Field on Application object.

Detailed Description: To Create fields on application object.

Field Name	Data Type	Values
Form Number	Autonumber	FORM-{00000}
Student Name	Text	
D.O.B	Date	
College	Master-Detail Relationship	
College Fee	Currency	[College_r.College_Fee_c]
Email	Email	
Form Number	Autonumber	FORM-{00000}

Topic 4: Create Custom fields on Student object.

Milestones / Activities: Creating Custom fields on Student object.

Detailed Description: To Create fields on 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	

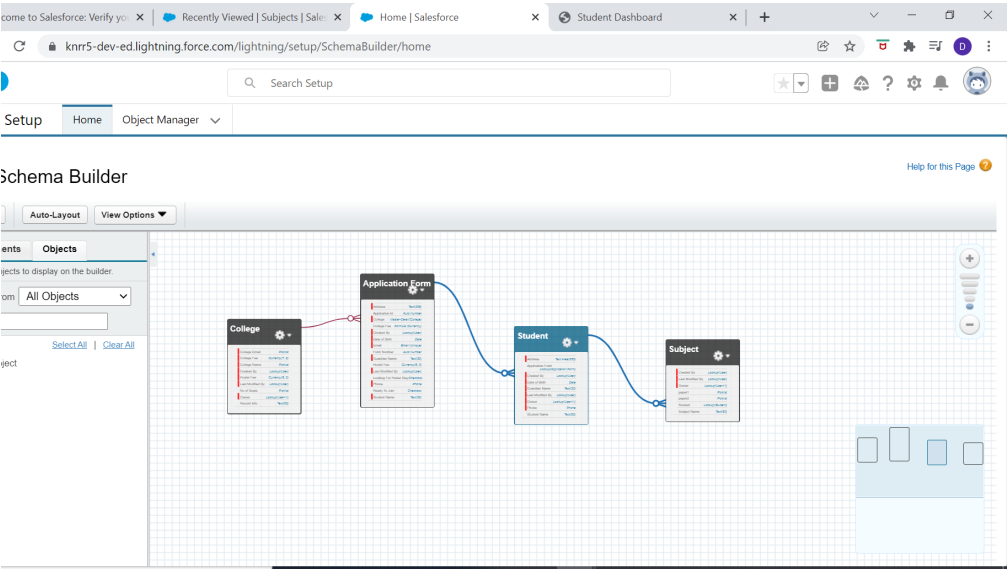
Topic5: Create Custom Fields on Subject object.

Milestone / Activities: Creating Custom fields on Subject object.

Detailed Description: To Create fields on Subject object.

Field Name	Data Type	Required	Values
Subject ID	AutoNumber		S-{000000} Starting Number=1
Paper1	Picklist(Refer Business Logic Milestone)		
Paper 2	Picklist(Refer Business Logic Milestone)		
Student	Lookup(Student)		

Screenshot of Milestone / Activities: Inserting the Screenshots of Scheme Builder where it shows all the custom fields of each custom object.



Day 3:

Topic 1: Adding Business logic to Application.

Milestone / Activities: Creating Global Picklist Value Sets.

Detailed Description: To Create Global Picklist Value Sets.

A) College

Picklist Value Name	Values
College	MIT-HYD
	MIT-BLR
	MIT-MUM
	MIT-DEL
	MIT-CHE

B)Paper 1

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

C)Paper 2

Picklist Value Name	Values
Paper 2	MATHEMATICS
	ENGLISH
	STATISTICS

Topic 2: Adding Business Logic to Application.

Milestone / Activities: Creating Field Dependencies.

Detailed Description:

1) : Field Dependencies I have created are between College Name and Email, where the Controlling field is college Name and dependent field is Email. I have selected Email Id's according to college names.

2) : I have created Field Dependencies between College name and no.of.seats, where Controlling field is College Name and dependent field is no.of.seats. I have allotted values accordingly.

Topic 3: Adding Business Logic to Application.

Milestone / Activities: Creating Validation Rules.

Detailed Description:

1) : I have created a Validation rule on College object which is designed in a way that College Name and Record info are having the same name.

TEXT(College_Name__c)<>Name

2) : I have created second rule where object is Application form and I have specified that once student record is created no modifications can be done

```
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)  
)  
)
```

Day 4:

Topic 1: Adding Business logic to Application.

Milestone / Activities: Process Automation.

Detailed Description: I have created automation process so that "ready to join" field is checked automatically with given information in the following application forms.

a) First I have created a new process builder on "Application Form" object with condition as "When a record Change". And selected "When a record is created or edited".

b) Then I have selected following field values related to application form and type as field reference, values are related to field itself as shown below.

The screenshot displays the Salesforce Process Builder interface for the 'Application Form' object. The process flow starts with a decision diamond labeled 'Ready to join field is checked'. If the condition is TRUE, it leads to an 'IMMEDIATE ACTIONS' step where the action 'create a student rec.' is selected. If FALSE, it leads to a 'STOP' step. The 'Create a Record' panel on the right shows the following field values:

Field *	Type *	Value *
Address	Field Reference	[Application_Form__c].A..Q
Date of Birth	Field Reference	[Application_Form__c].D..Q
Guardian Name	Field Reference	[Application_Form__c].G..Q
Phone	Field Reference	[Application_Form__c].P..Q
Application Form	Field Reference	[Application_Form__c].Id
Student Name	Field Reference	[Application_Form__c].S..Q

Day 5:

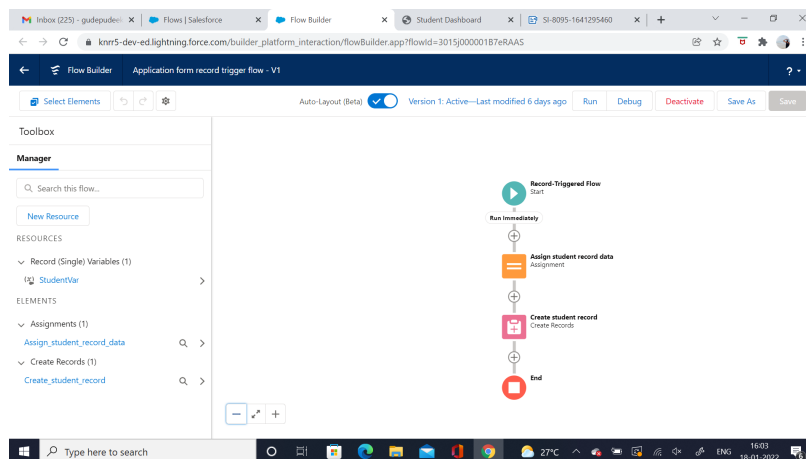
Topic 1: Adding Business Logic.

Milestone / Activities: Create Student Record flow.

Detailed Description:

- a) First I have deactivated the process builder which I have created.
- b) Then created new trigger flow.
- c) Then I have selected object as application form and selected configure trigger as "when the record is updated for entire criteria selected as ready to join equals to true".
- d) Then created a variable named student in the resource section.
- e) Then added all the variables, operators and values.

Screenshot or Milestone of Activity:



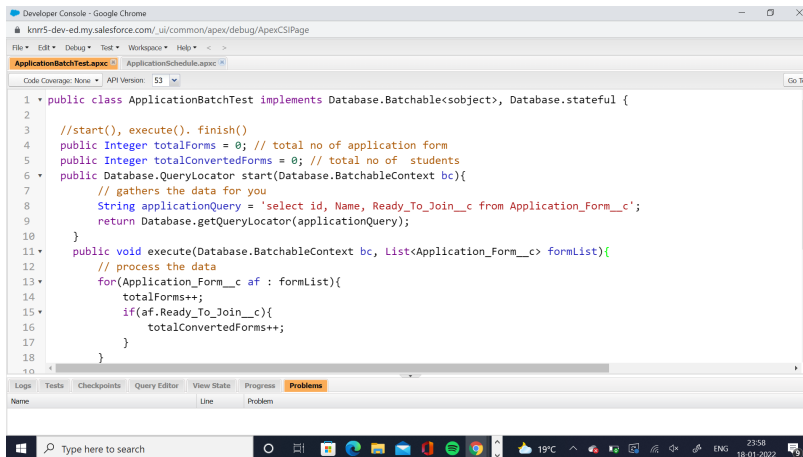
Day 6:

Topic 1: Batch Apex.

Milestone / Activities: Creating batchapex for Application Form.

Detailed Description: From developer console created a new apex class then entered the code.

Screenshot of Milestone / Activitie :



The screenshot shows the Salesforce Developer Console with the 'ApplicationBatchTest.apex' file open. The code defines a class that implements Database.Batchable<Object> and Database.Stateful. It includes methods for start(), execute(), and finish(). The start() method sets up a query to select records from Application_Form__c. The execute() method iterates through a list of records and updates the Ready_To_Join__c field.

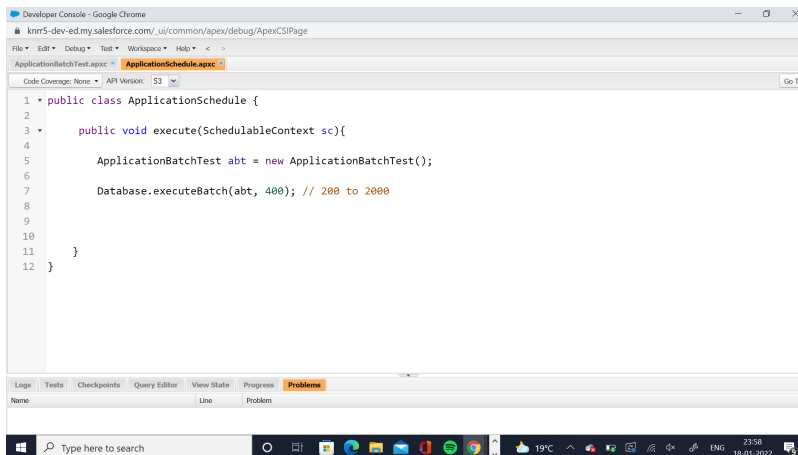
```
1 public class ApplicationBatchTest implements Database.Batchable<Object>, Database.Stateful {  
2  
3     //start(), execute(). finish()  
4     public Integer totalForms = 0; // total no of application form  
5     public Integer totalConvertedForms = 0; // total no of students  
6     public Database.QueryLocator 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 }
```

Topic 2: Batch apex.

Milestone / Activities: Creating a Scheduler Class.

Detailed Description: From developer console created a apex class and entered the code.

Screenshot of Milestone / Activities :



The screenshot shows the Salesforce Developer Console with the 'ApplicationSchedule.apex' file open. The code defines a class ApplicationSchedule with a single method execute(SchedulableContext sc) that creates an instance of ApplicationBatchTest and executes it as a batch.

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

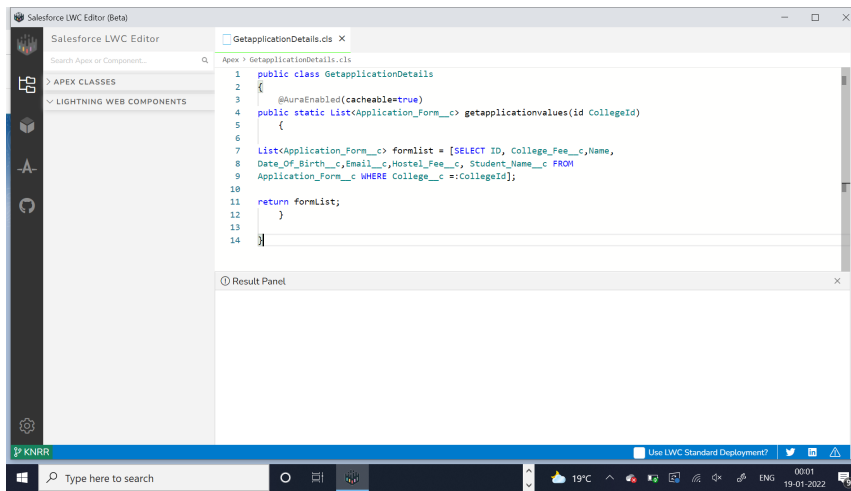
Day 7:

Topic 1: Lightning Web Components.

Milestones / Activities : Creating College Datatable Component(APEX FILE)

Detailed Description : I have created college datatable for this I have created apex class to retrieve data.

Screenshot of Milestone / Activity:

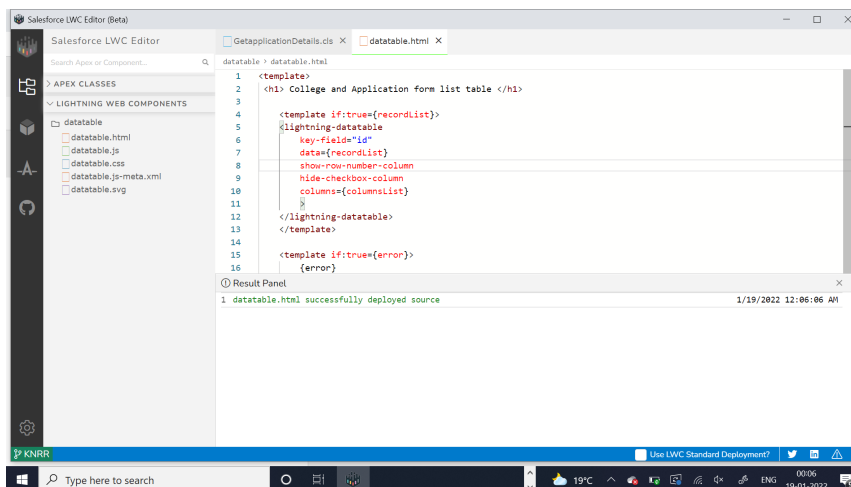


Day 8:

Topic 1: Lightning Web Components.

Milestones / Activities : college datatable component using HTML file.

Screenshot of Milestone / Activity :

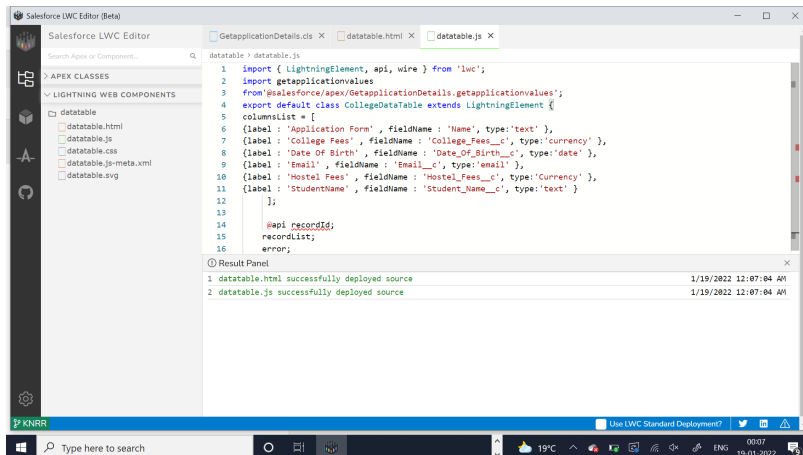


Day 9 :

Topic 1 : Lightning Web Components.

Milestones / Activities : college database component using JAVASCRIPT file.

Screenshot of Milestone / Activities :



Day 10 :

Topic 1 : Lightning Web Components.

Milestones / Activities : college component using METE file.

Screenshot of Milestone / Activities :

