

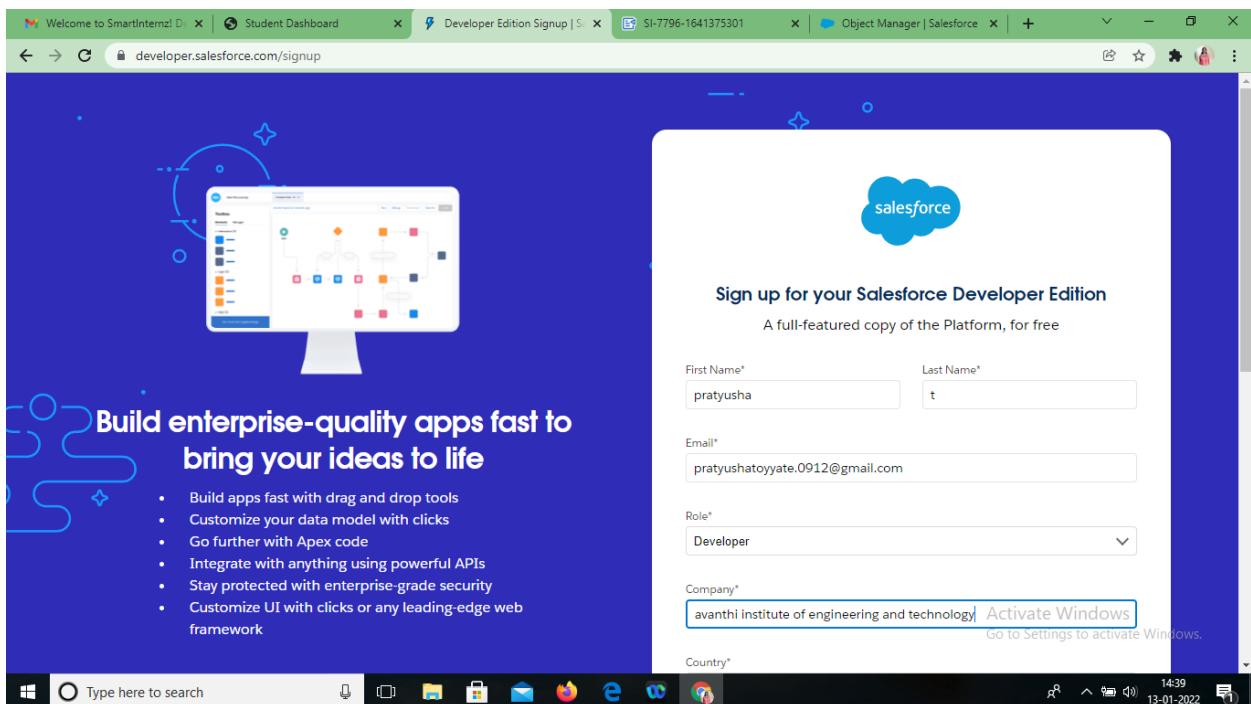
Day 1 : 03/01/2022

Create your salesforce Developer account in salesforce

creating developer account:

Firstly, I have entered into salesforce.com.

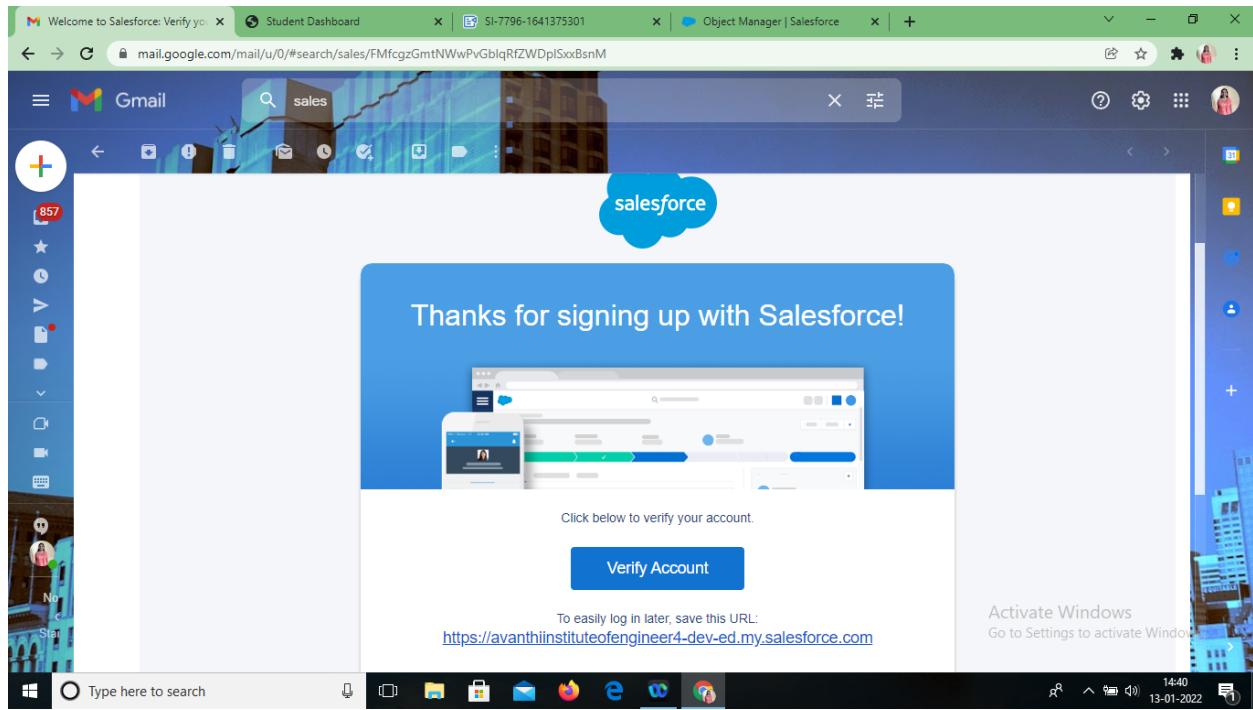
Upload the Screenshot the Milestone / Activities :



Account activation

Then I have signed up on that page and got an activation gmail.

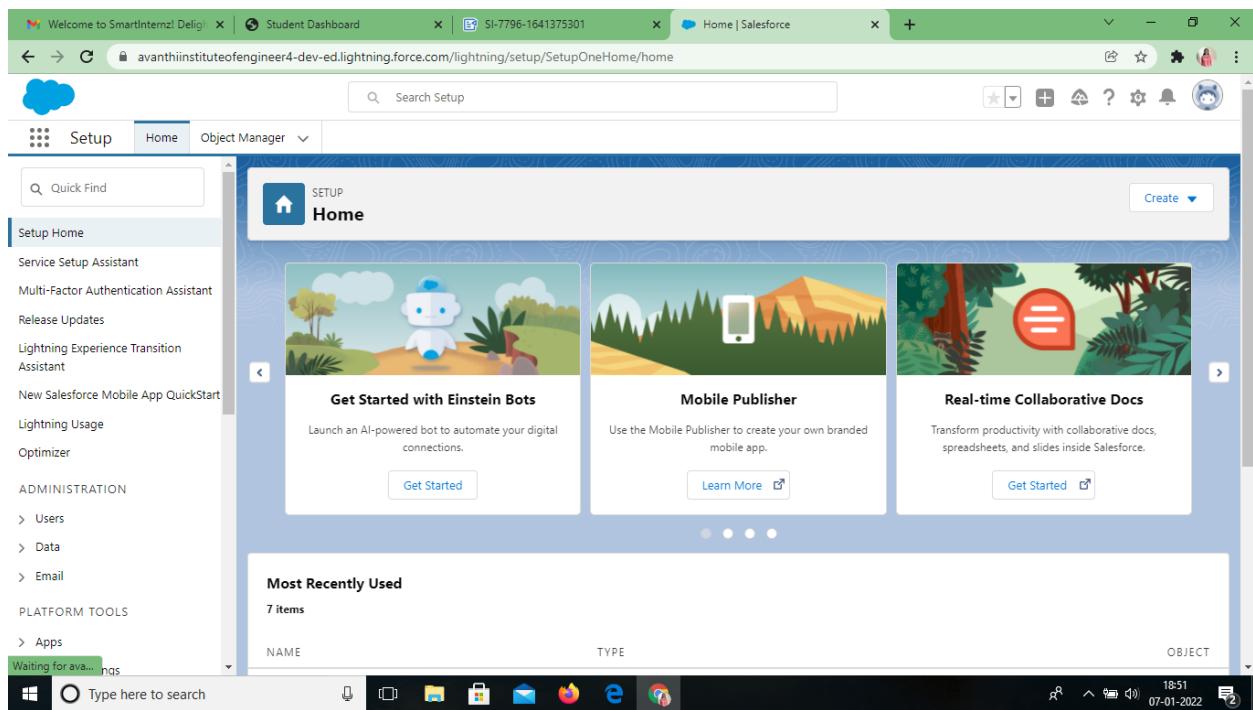
Upload the Screenshot the Milestone / Activities :



Login to your salesforce account:

After getting gmail,i loged into salesforce application using my login crediantials.
It showed up like:

Upload the Screenshot the Milestone / Activities :



Day 2 : 04/01/2022

custom object creation

After logging into salesforce.com I created some custom objects using create option in object manager.

object manager>create>custom objects

Create the custom objects for the application:

it is showed up like:

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Object Manager page. The top navigation bar includes tabs for Setup, Home, and Object Manager. A search bar labeled "Search Setup" is present. On the right, there are buttons for "Quick Find", "Schema Builder", and "Create". A dropdown menu titled "Custom Object" is open, showing "Custom Object from Spreadsheet". The main content area displays a table of objects with columns for Label, API Name, Type, Description, and Last Modified. The table lists various standard and custom objects. One row for "Application Form" is highlighted, showing it was last modified on 1/5/2022.

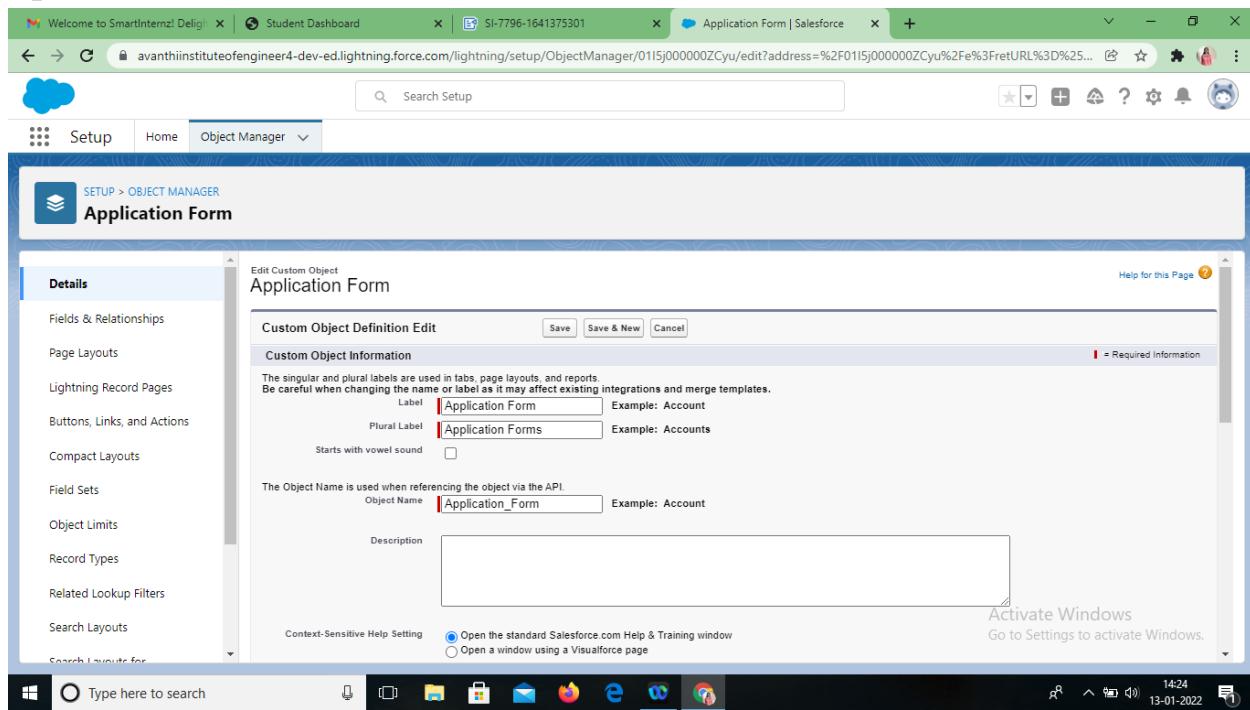
Step 1: Created a custom object for college .

Upload the Screenshot the Milestone / Activities :

The screenshot shows the "Edit Custom Object Definition" page for the "College" object. The left sidebar has a "Details" section with links to 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. The main content area shows the "Custom Object Information" section. It includes fields for "Label" (College), "Plural Label" (Colleges), and "Starts with vowel sound" (unchecked). Below this, there is a note about the Object Name and a field for "Object Name" (College). A "Description" field is also present. At the bottom, there are "Context-Sensitive Help Setting" options: "Open the standard Salesforce.com Help & Training window" (radio button selected) and "Open a window using a Visualforce page". A watermark for "Activate Windows" is visible at the bottom right.

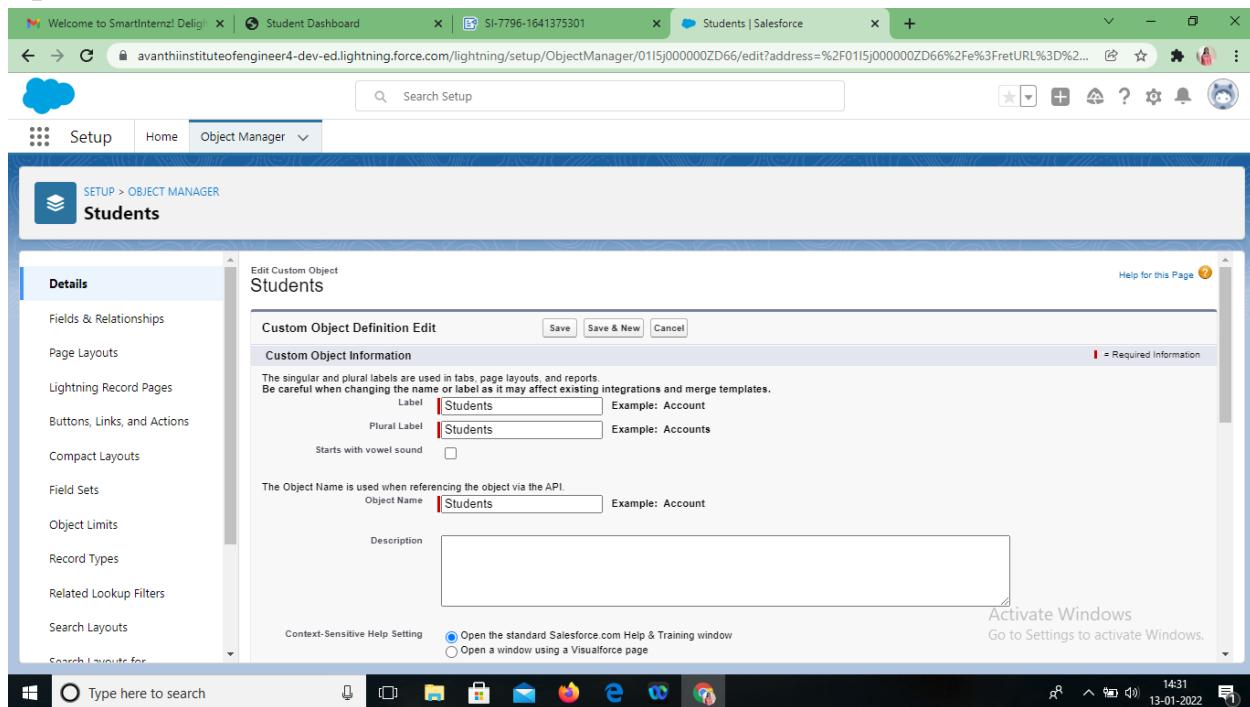
Step 2:Created a custom object for application form

Upload the Screenshot the Milestone / Activities :



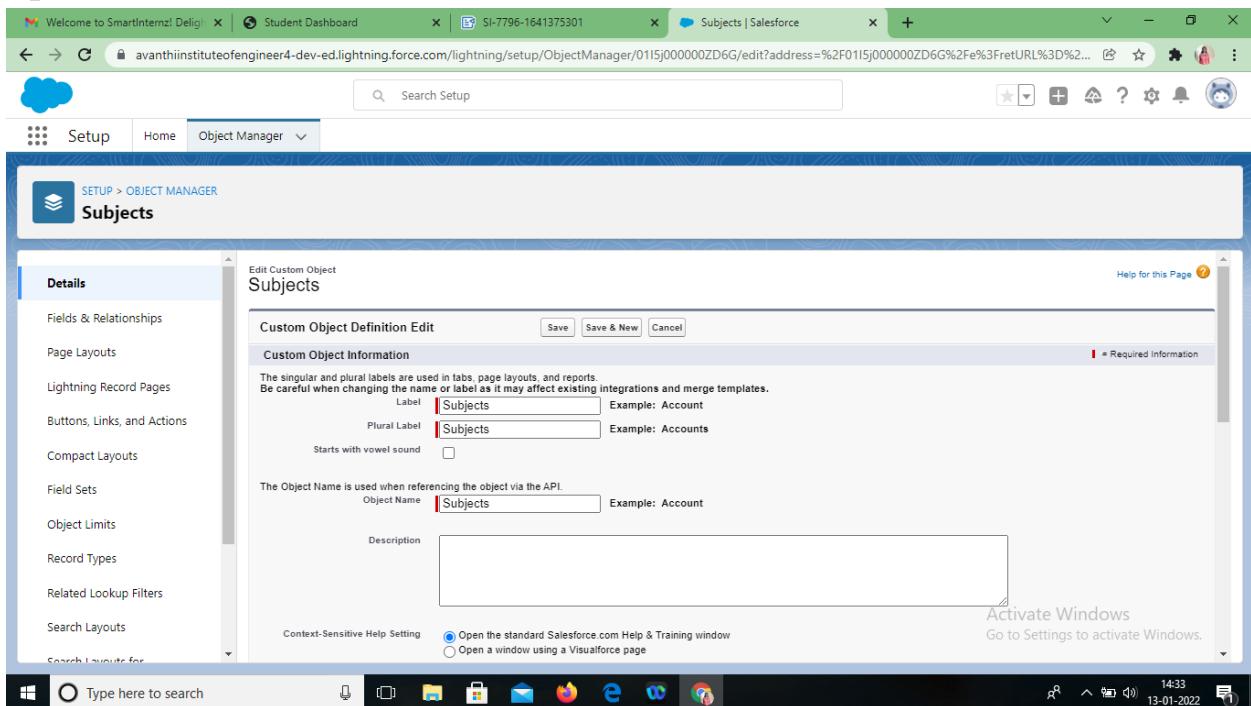
Step 3: Created a custom object for students.

Upload the Screenshot the Milestone / Activities :



Step4: Created a custom object on subjects.

Upload the Screenshot the Milestone / Activities :

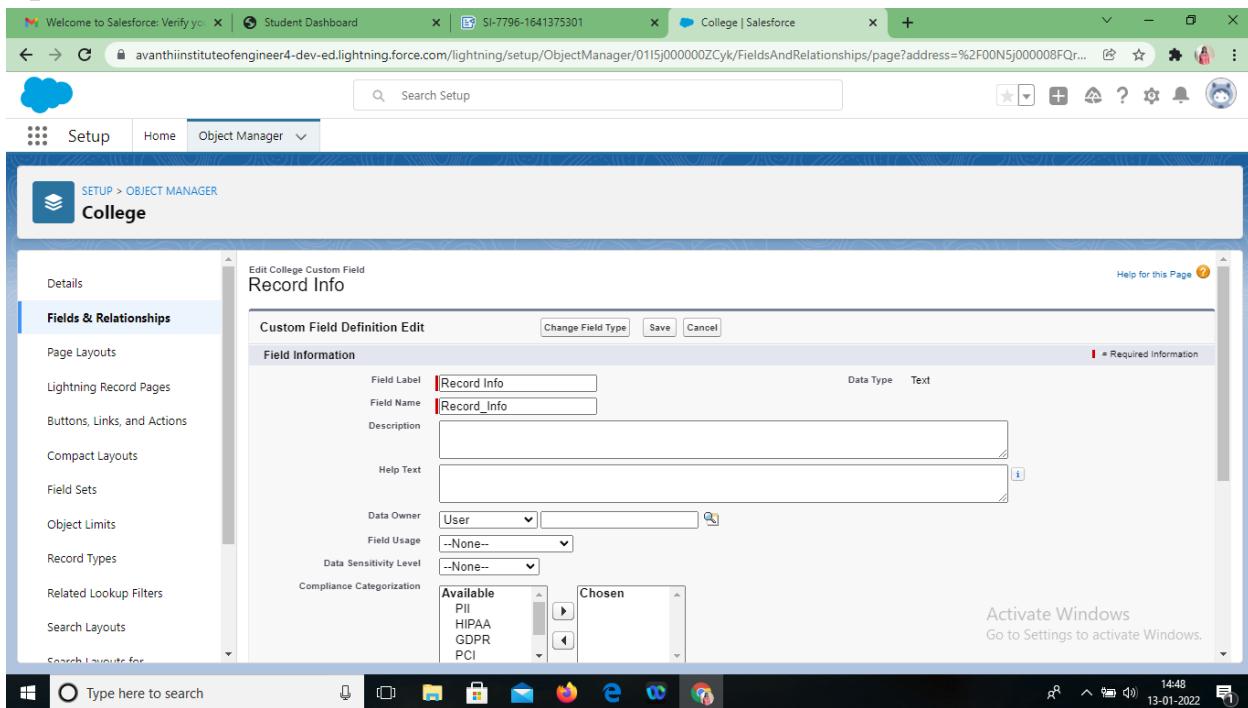


Create fields on college object:

First of all, we will click on college object in object manager and we will move to fields and relationships in that object and create new fields.

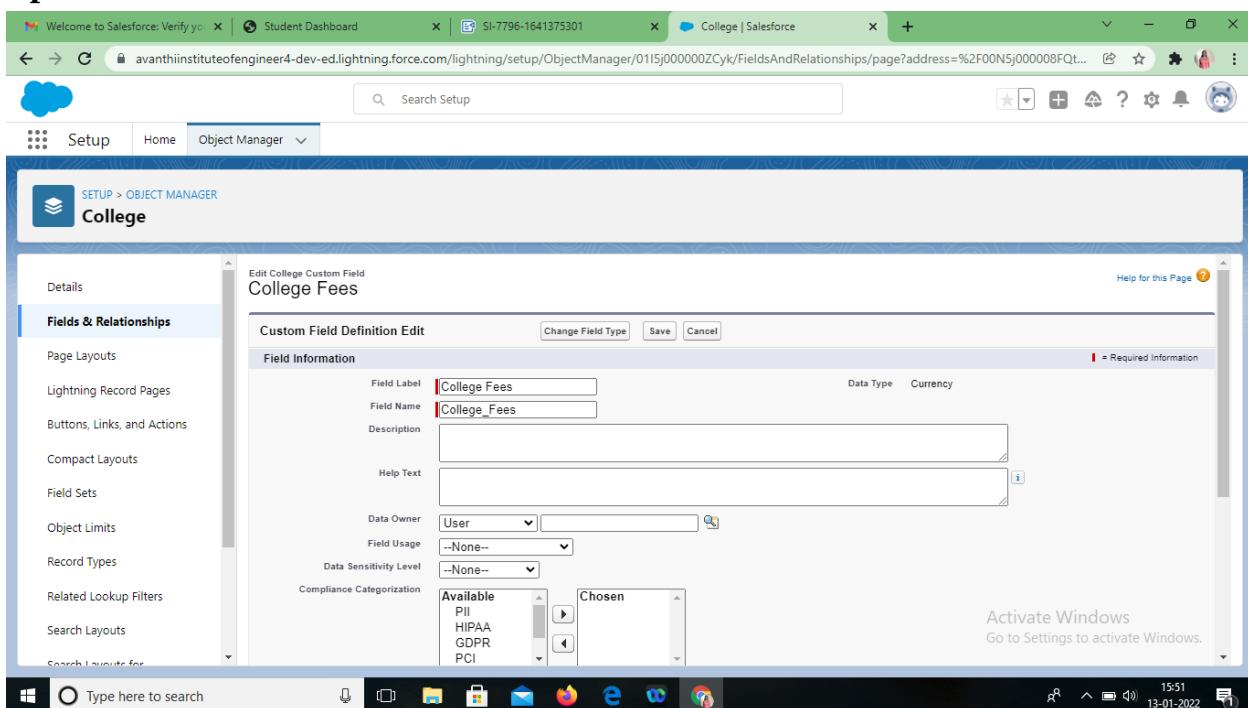
Step1: Create a fieldname recordinfo with text datatype.

Upload the Screenshot the Milestone / Activities :



Step2: Create a fieldname college fees with currency datatype.

Upload the Screenshot the Milestone / Activities :



Step3: Create a fieldname hostel fees with currency datatype.

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface for the 'College' object. On the left, a sidebar lists various setup categories like Page Layouts, Lightning Record Pages, and Fields & Relationships. Under 'Fields & Relationships', 'Custom Fields' is selected. In the main area, a modal window titled 'Edit College Custom Field Hostel Fees' is open. The 'Field Information' section shows the field label 'Hostel Fees' and field name 'Hostel_Fees'. The 'Data Type' dropdown is set to 'Currency'. Other settings include 'Data Owner' (User), 'Field Usage' (None), 'Data Sensitivity Level' (None), and 'Compliance Categorization' (Available: PII, HIPAA, GDPR, PCI). A note at the bottom right says 'Activate Windows Go to Settings to activate Windows.' The system status bar at the bottom indicates it's 15:54 on 13-01-2022.

Step4: Create a fieldname college name with picklist datatype.

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface for the 'College' object. The sidebar is identical to the previous screenshot. A modal window titled 'New Custom Field' is open, specifically 'Step 2. Enter the details'. The 'Field Label' is 'College Name'. Under 'Values', the 'Use global picklist value set' radio button is selected. Other options include 'Enter values, with each value separated by a new line' and a dropdown menu 'None'. There are also checkboxes for 'Display values alphabetically, not in the order entered', 'Use first value as default value', and 'Restrict picklist to the values defined in the value set'. A note at the bottom right says 'Activate Windows Go to Settings to activate Windows.' The system status bar at the bottom indicates it's 15:59 on 13-01-2022.

Step5: Create a fieldname Email with picklist datatype .The values defined in the picklist are:

blr@mit.co.in
hyd@mit.co.in
mum@mit.co.in
maa@mit.co.in
ccu@mit.co.in
del@mit.co.in

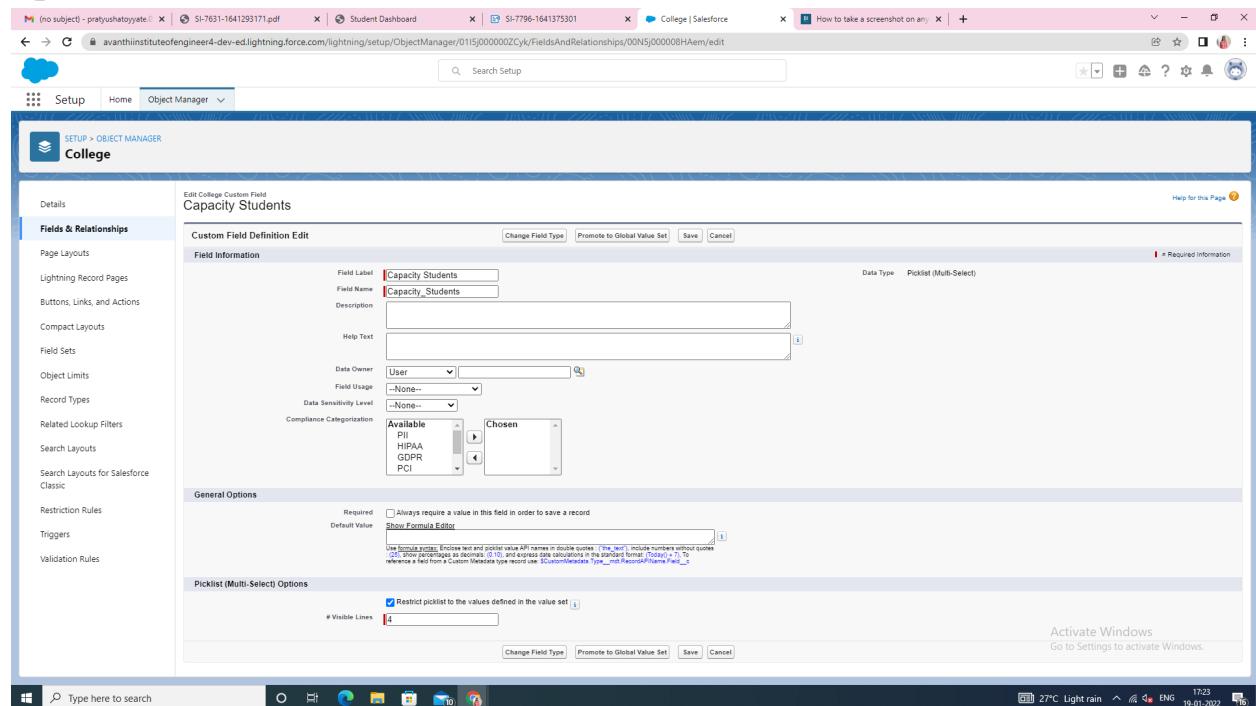
Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface. The user is creating a new custom field named 'Email'. The 'Field Label' is set to 'Email'. Under 'Values', the 'Enter values, with each value separated by a new line' option is selected. The values listed are: blr@mit.co.in, hyd@mit.co.in, mum@mit.co.in, maa@mit.co.in, ccu@mit.co.in, and del@mit.co.in.

Step6: Create a fieldname Capacity Students with picklist datatype .The values defined in the picklist are:

500-1000,
1000-2500,
2500-6000,
6000-1000.

Upload the Screenshot the Milestone / Activities :

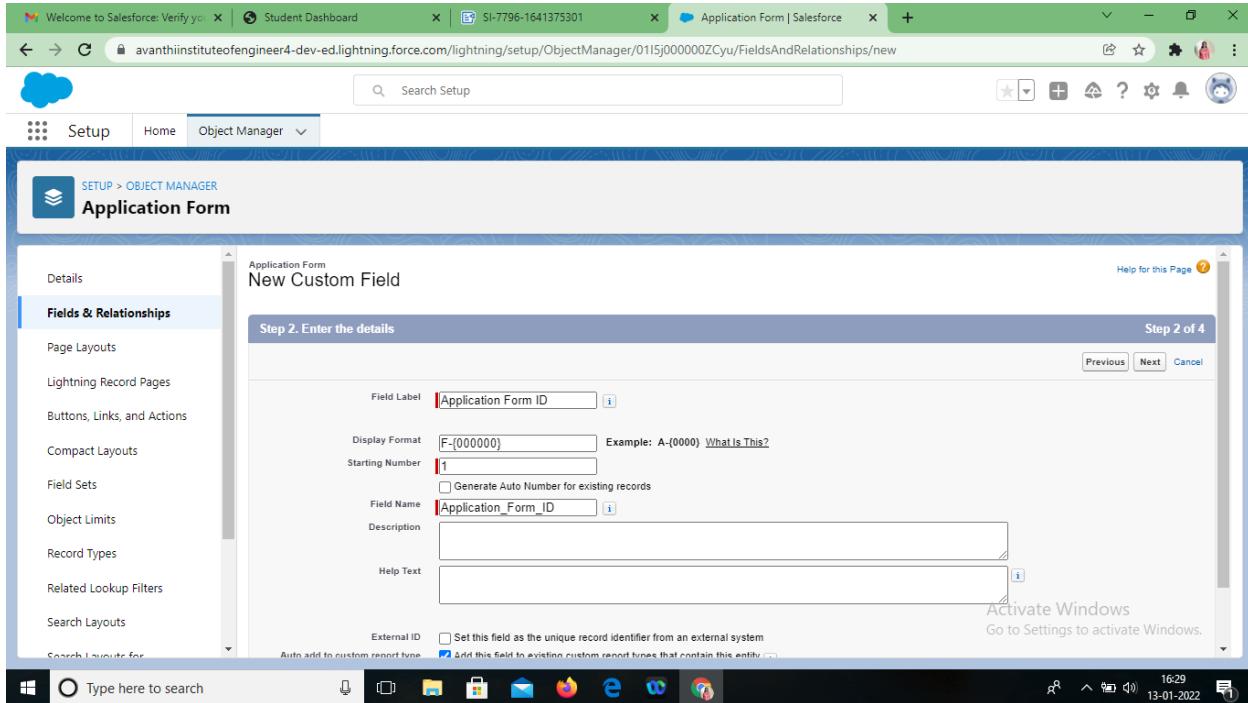


Create fields on application form object:

Now we will create field in application form by clicking application form in object manager. we will create new fields in by using fileds and relationship.

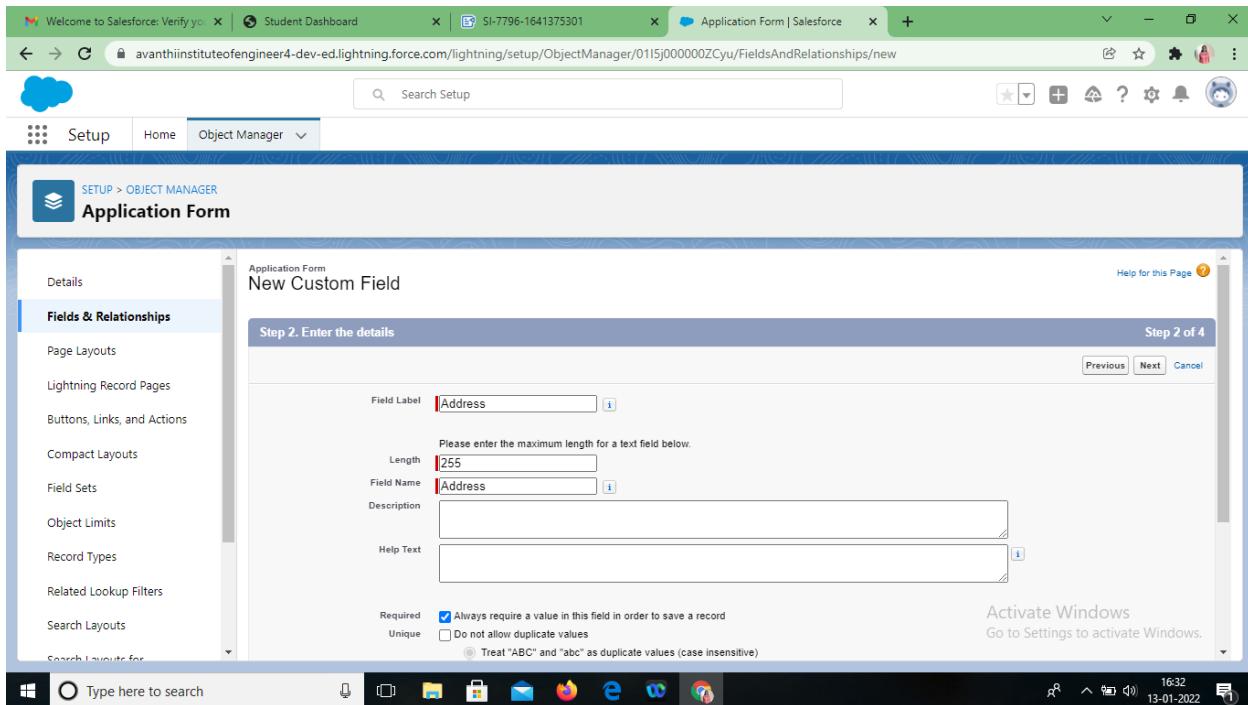
Step 1: Create a fieldname Application Form ID with Autonumber datatype .

Upload the Screenshot the Milestone / Activities :



Step 2: Create a fieldname Address with Text datatype .

Upload the Screenshot the Milestone / Activities :



Step 3: Create a fieldname College with Master-Detail datatype .

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface for creating a new relationship field. The left sidebar is titled 'Fields & Relationships' and includes options like 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. The main panel is titled 'Application Form New Relationship' and 'Step 3. Enter the label and name for the lookup field'. It contains fields for 'Field Label' (College), 'Field Name' (College), 'Description' (empty), 'Help Text' (empty), 'Child Relationship Name' (Application_Forms), and 'Sharing Setting' (Read Only). A note at the bottom says 'Activate Windows Go to Settings to activate Windows.' The status bar at the bottom right shows the date and time: 16:38 13-01-2022.

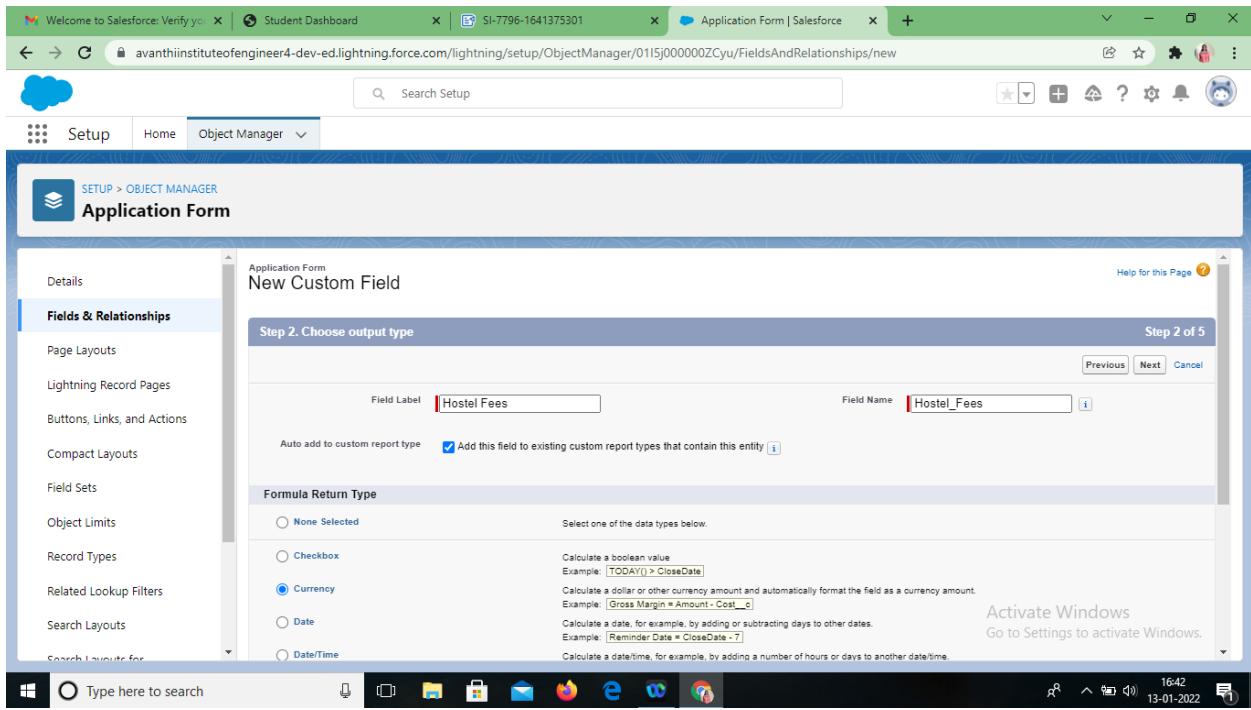
Step 4: Create a fieldname College Fees with formula datatype .

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Setup interface for creating a new custom field. The left sidebar is titled 'Fields & Relationships' and includes options like 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. The main panel is titled 'Application Form New Custom Field' and 'Step 2. Choose output type'. It contains fields for 'Field Label' (College fees), 'Field Name' (College_fees), and an 'Auto add to custom report type' checkbox which is checked. Below this is a 'Formula Return Type' section with options: 'None Selected' (selected), 'Checkbox', 'Currency' (selected), 'Date', and 'Date/Time'. A note at the bottom says 'Activate Windows Go to Settings to activate Windows.' The status bar at the bottom right shows the date and time: 16:38 13-01-2022.

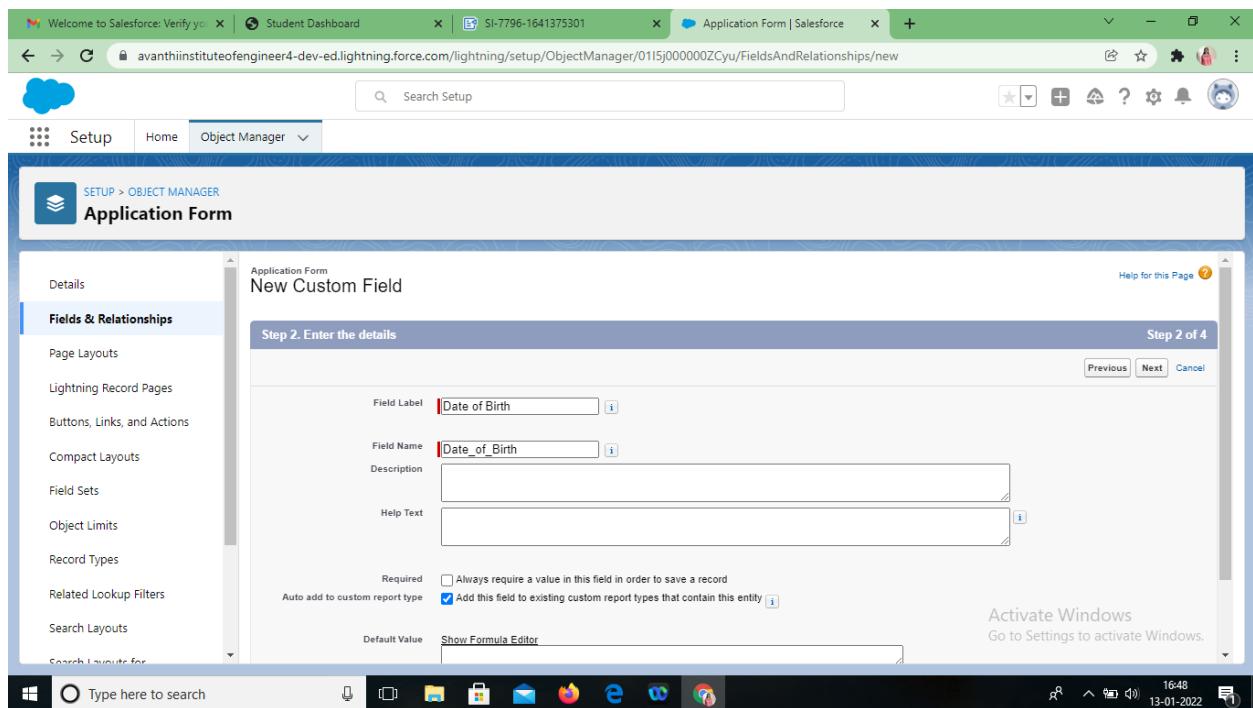
Step 5: Create a fieldname Hostel Fees with formula datatype .

Upload the Screenshot the Milestone / Activities :



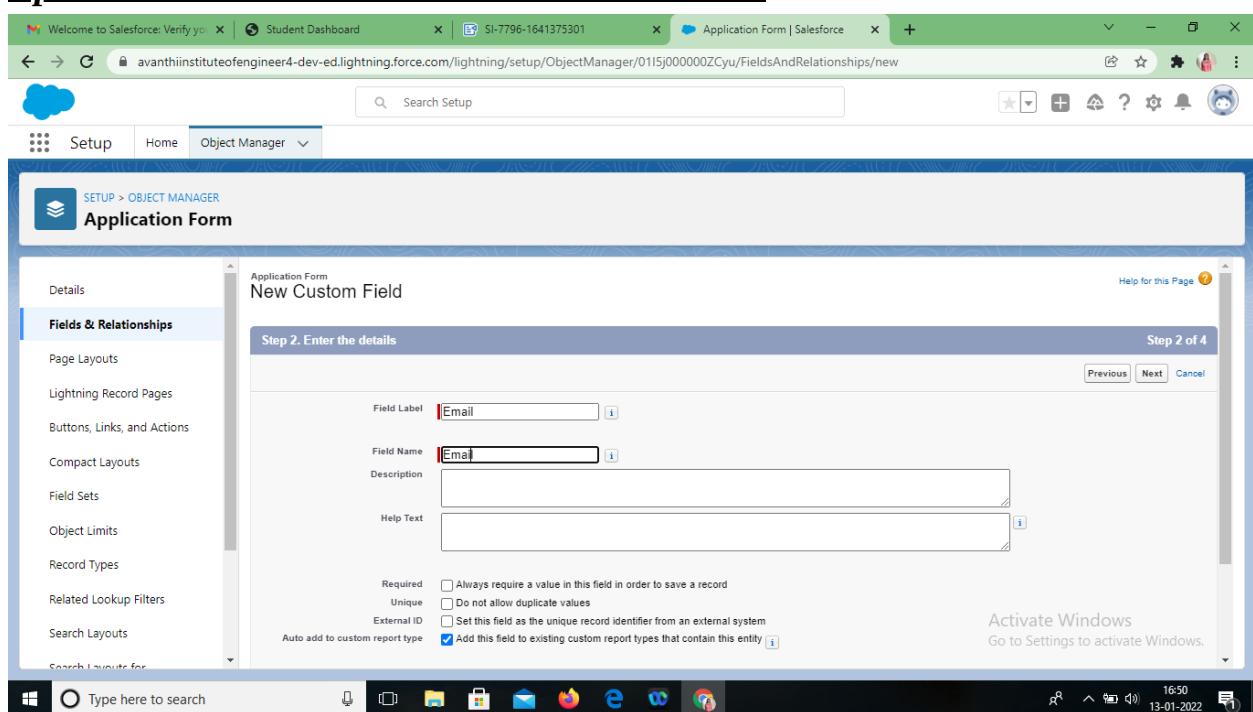
Step 5: Create a fieldname Date of Birth with date datatype .

Upload the Screenshot the Milestone / Activities :



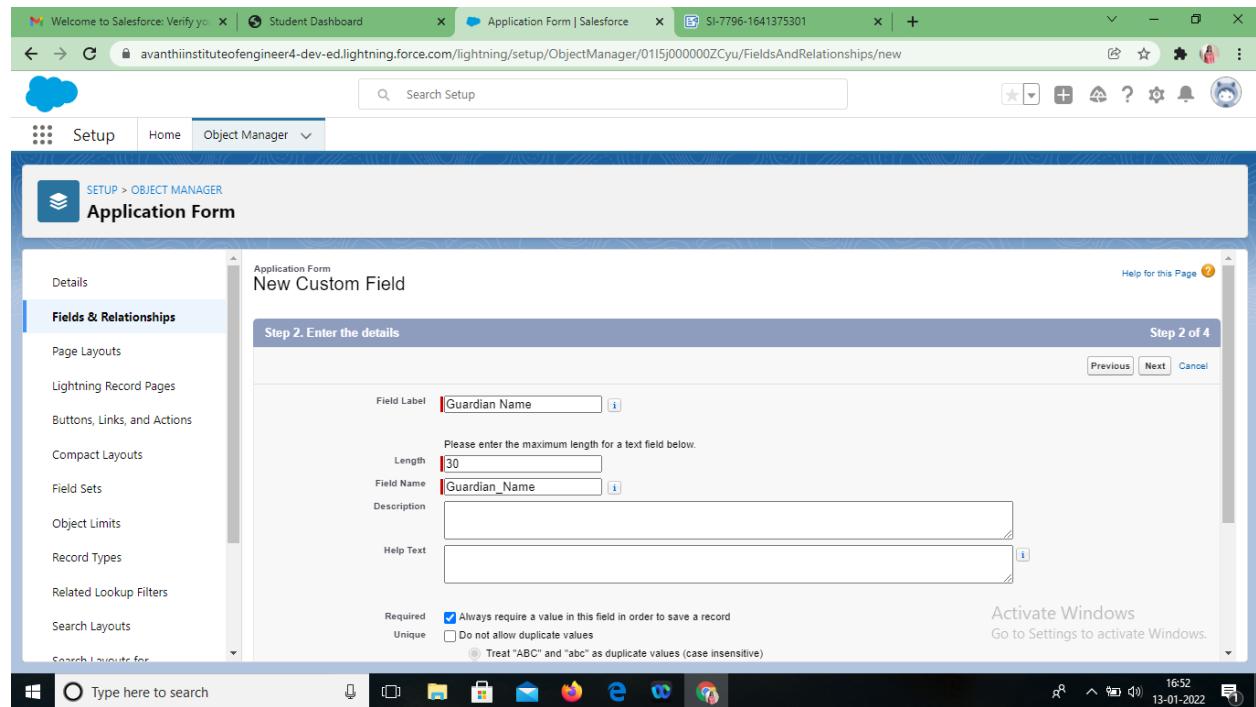
Step 6: Create a fieldname Email with Email datatype .

Upload the Screenshot the Milestone / Activities :



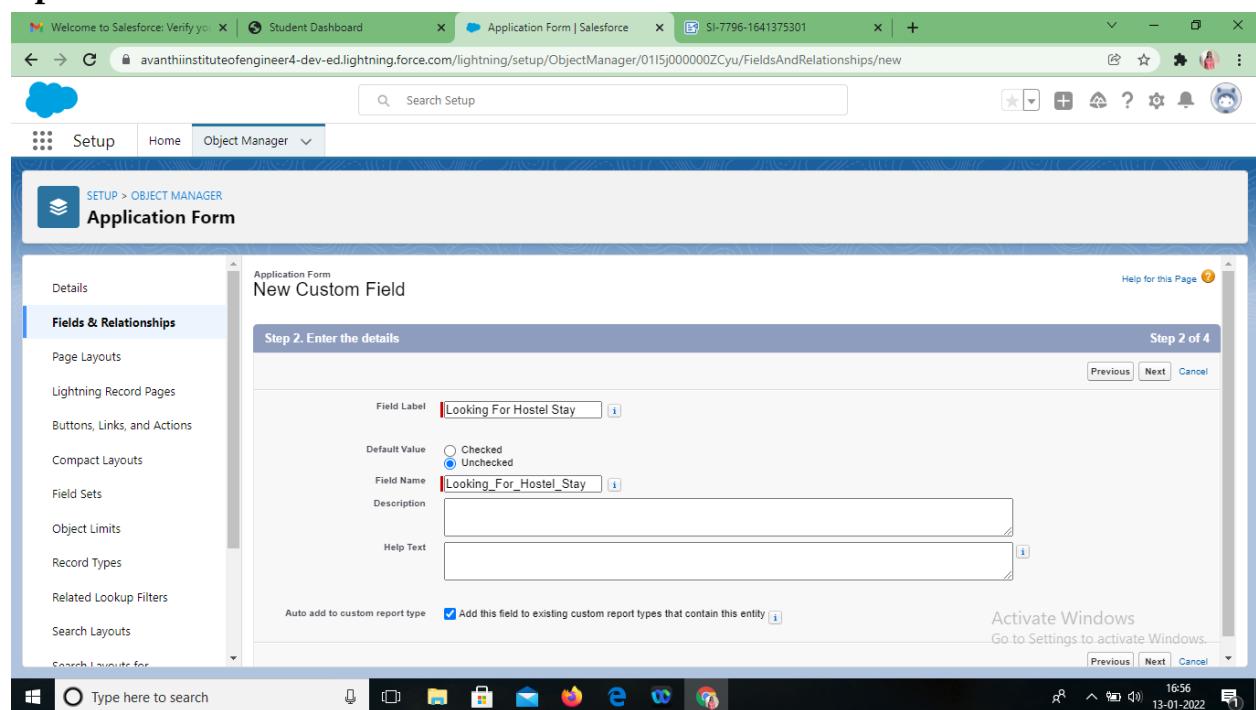
Step 7: Create a fieldname Guardian Name with Text datatype .

Upload the Screenshot the Milestone / Activities :



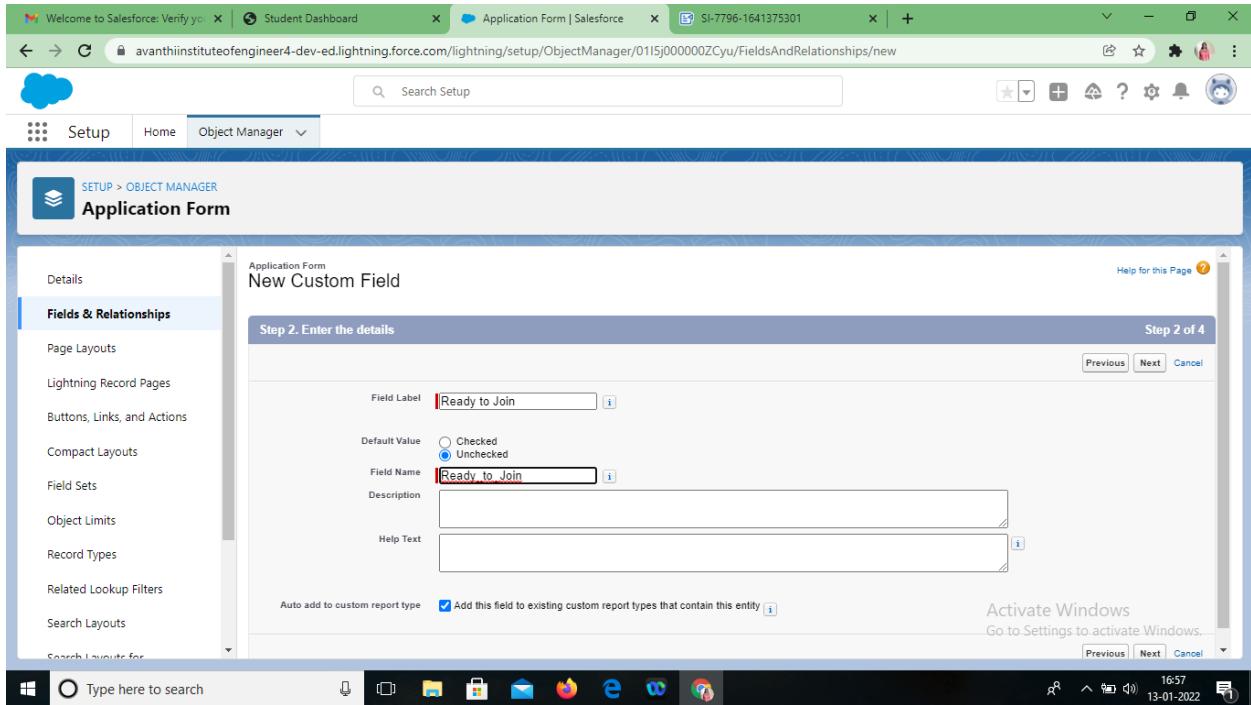
Step 8: Create a fieldname Looking For Hostel Stay with Checkbox datatype .

Upload the Screenshot the Milestone / Activities :



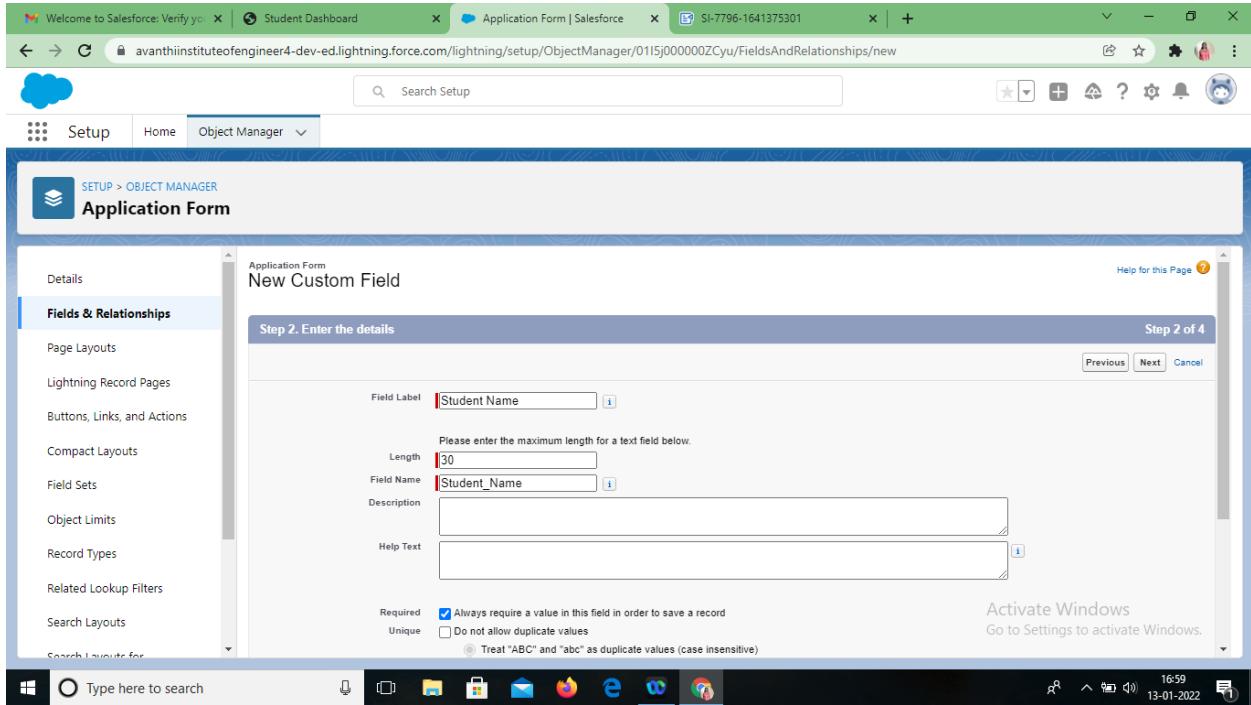
Step 9: Create a fieldname Ready to Join with Checkbox datatype .

Upload the Screenshot the Milestone / Activities :



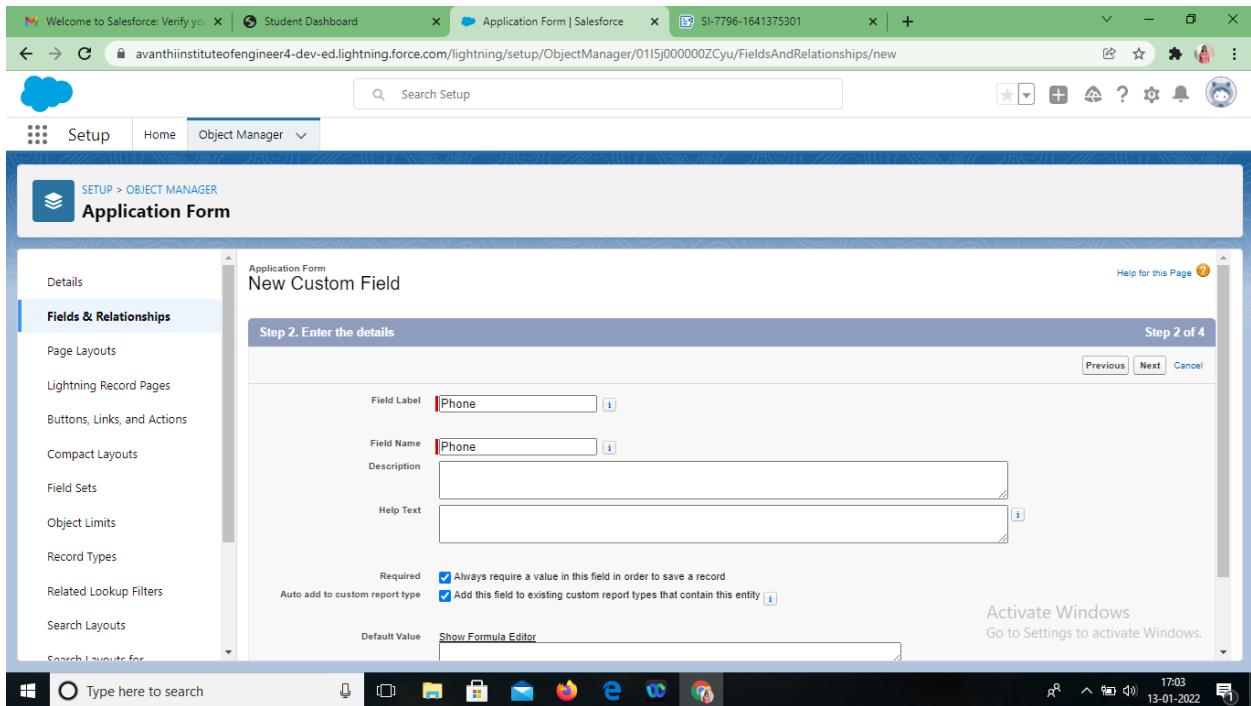
Step 10: Create a fieldname Student Name with Text datatype .

Upload the Screenshot the Milestone / Activities :



Step 11: Create a fieldname Phone with Phone datatype .

Upload the Screenshot the Milestone / Activities :

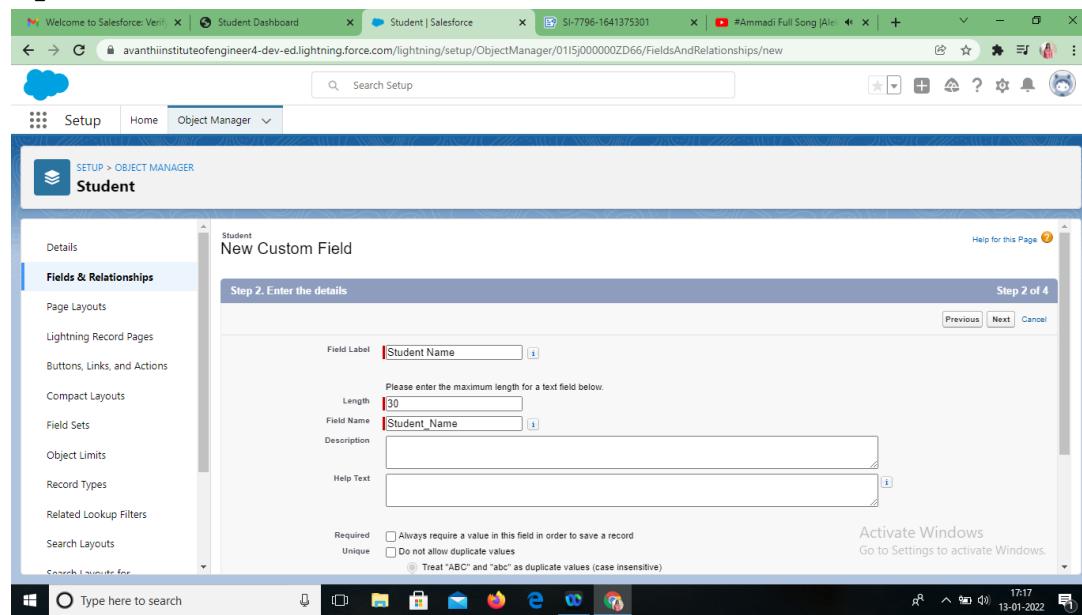


Create fields on Student Object:

Now we will open student object in object manager. And we will create fields in fields and relationship .

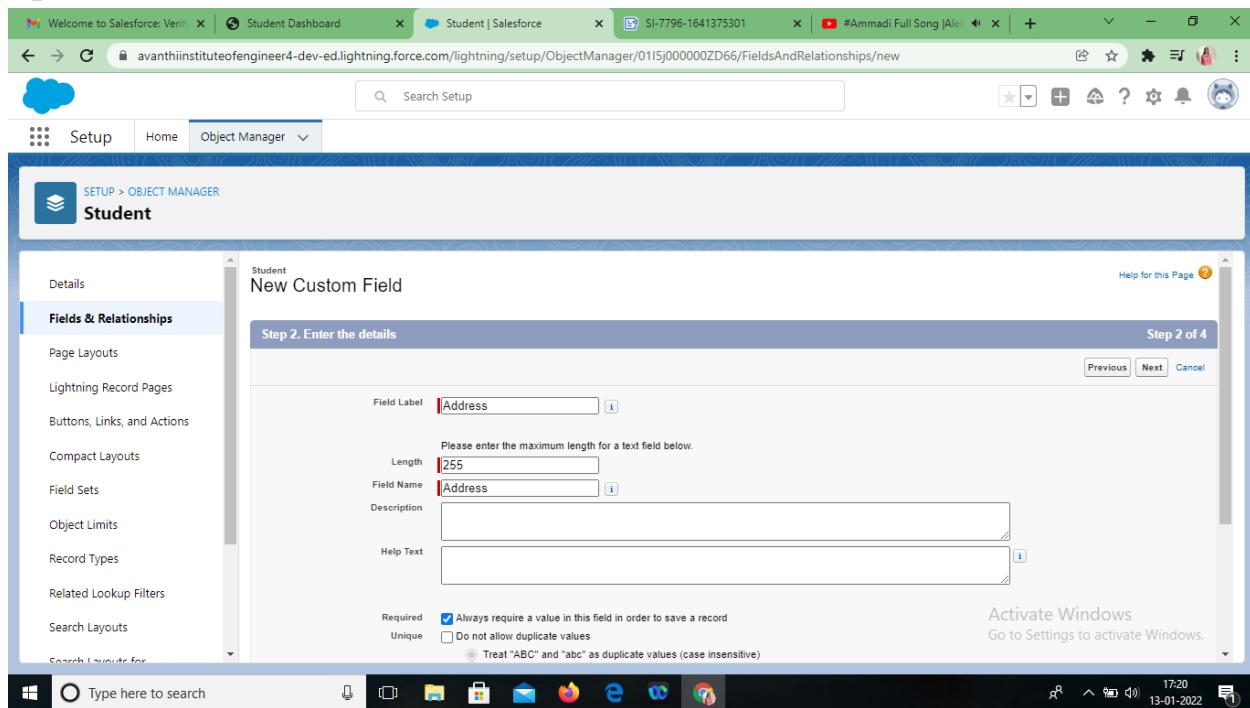
Step 1: Create a fieldname Student Name with Text datatype.

Upload the Screenshot the Milestone / Activities :



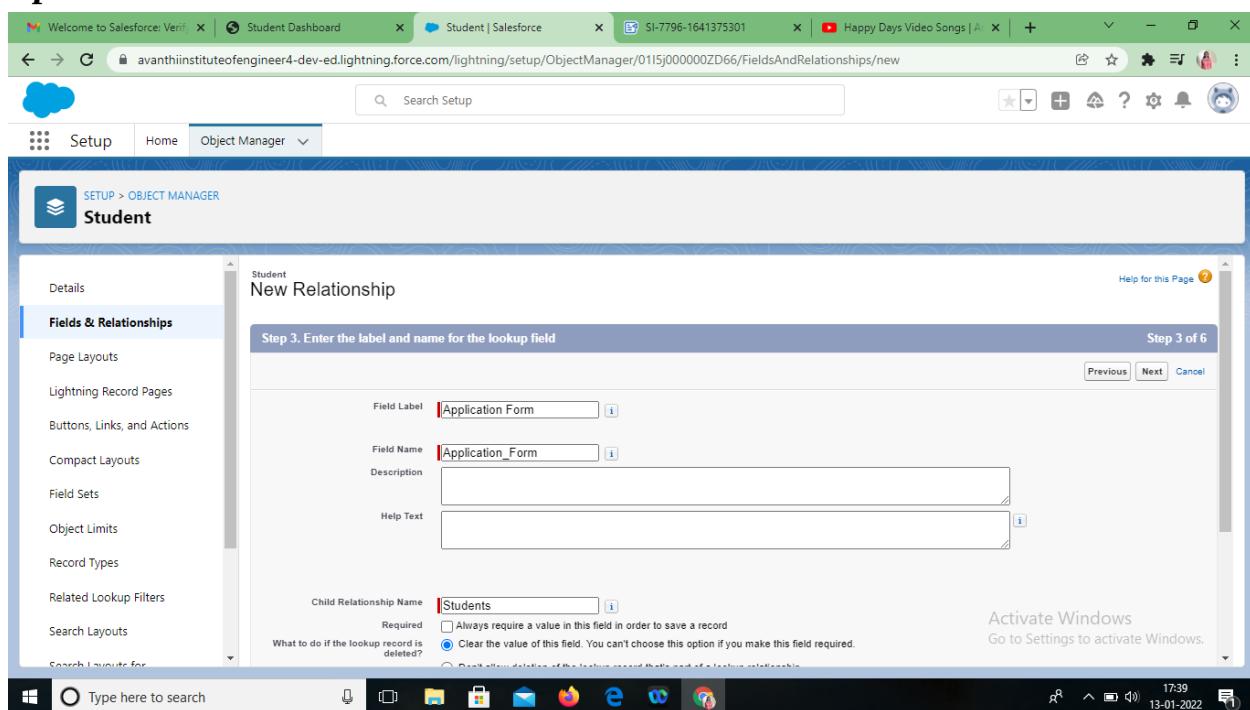
Step 2: Create a fieldname Address with Text datatype .

Upload the Screenshot the Milestone / Activities :



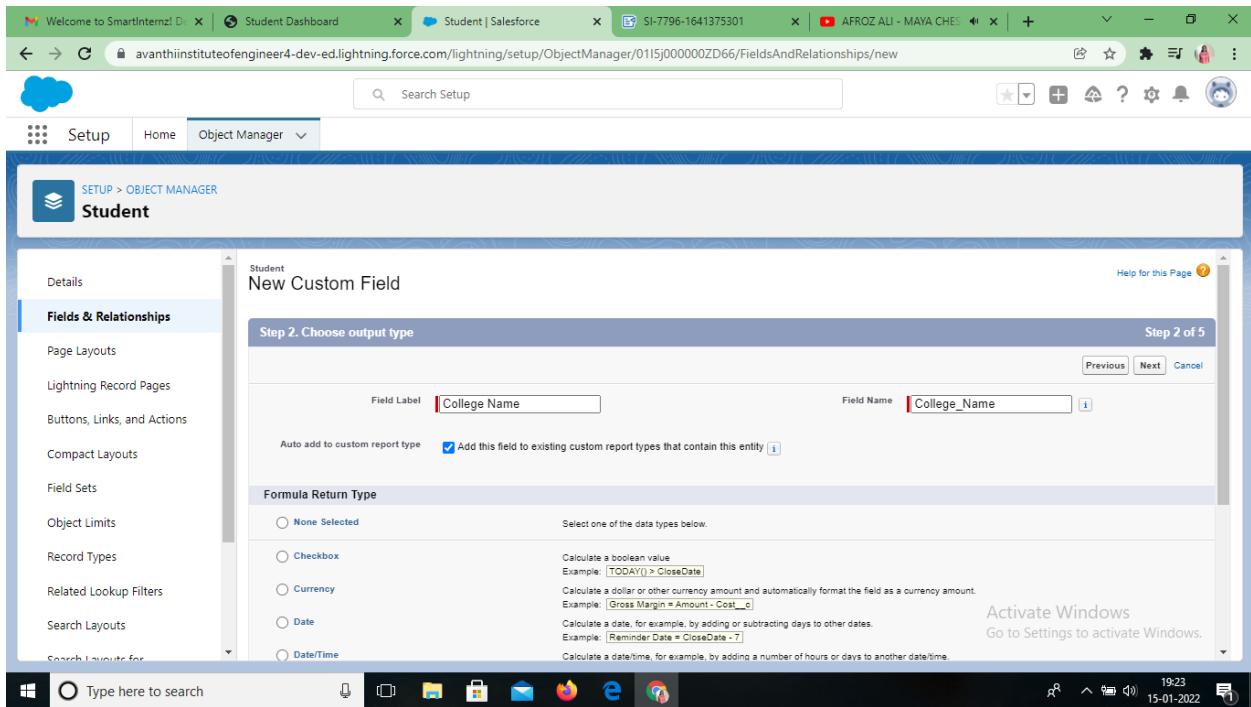
Step 3: Create a fieldname Application form with Lookup datatype .

Upload the Screenshot the Milestone / Activities :



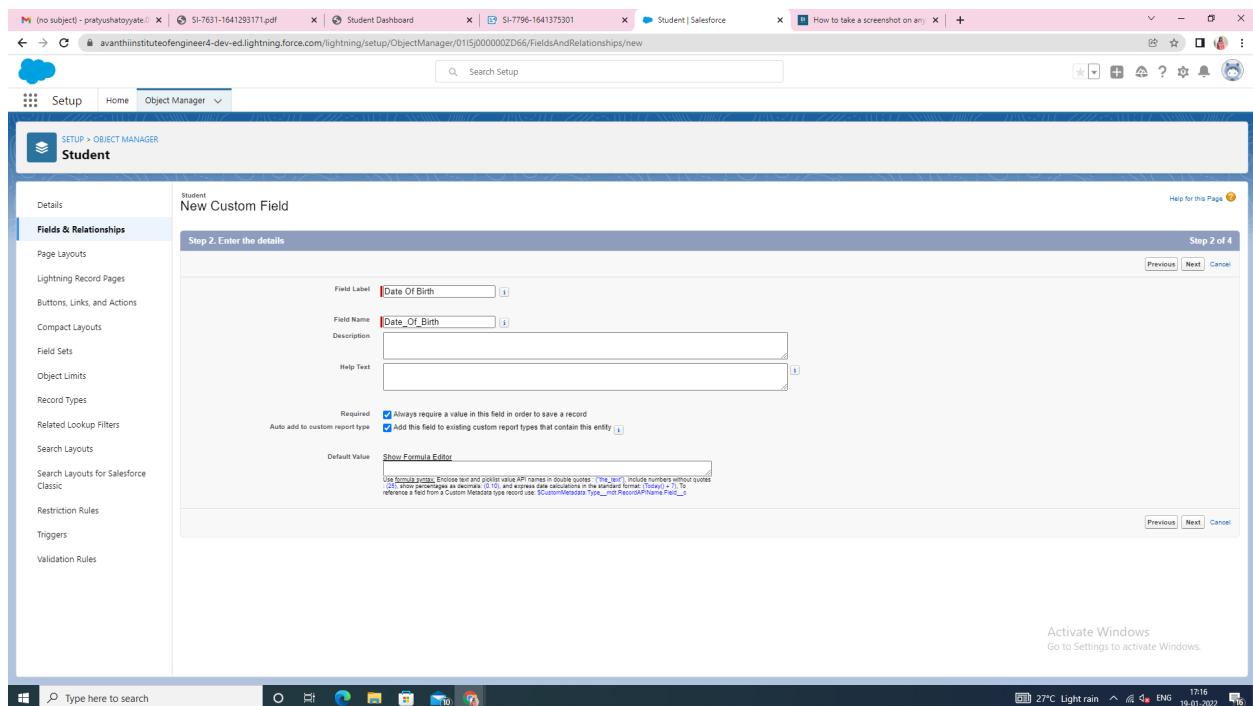
Step 3: Create a fieldname College Name with Formula datatype .

Upload the Screenshot the Milestone / Activities :



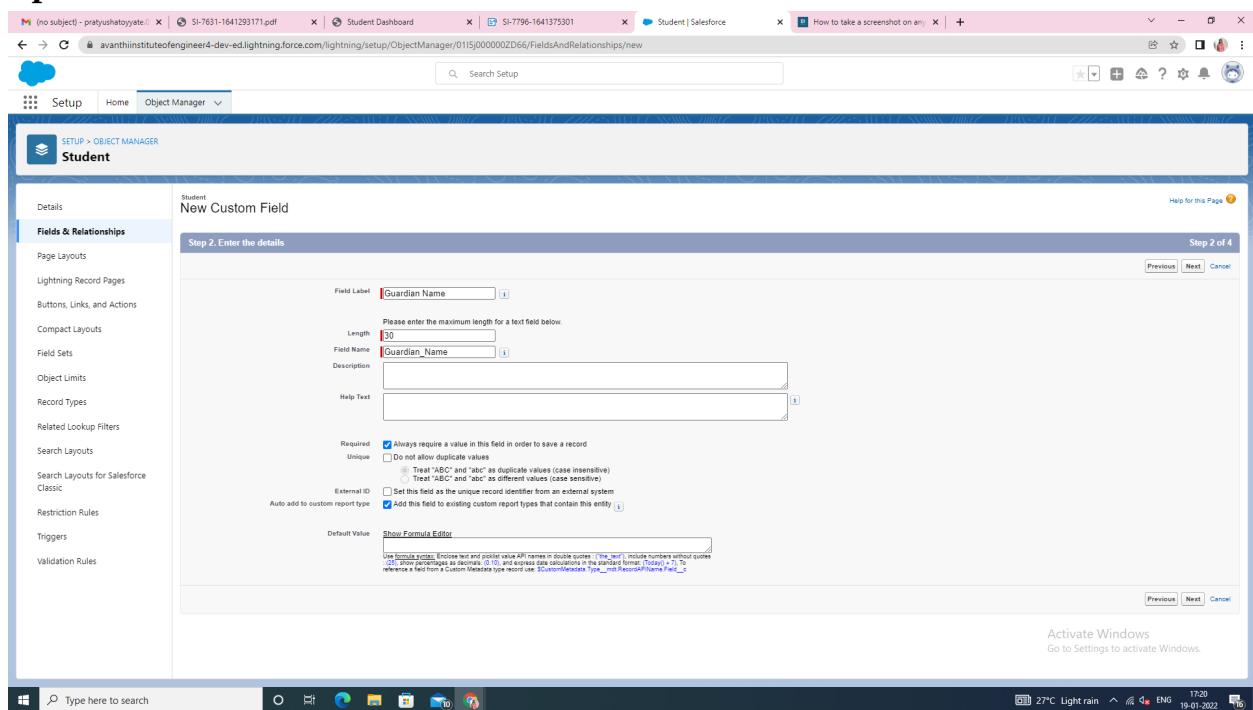
Step 4: Create a fieldname Date Of Birth with Date datatype .

Upload the Screenshot the Milestone / Activities :



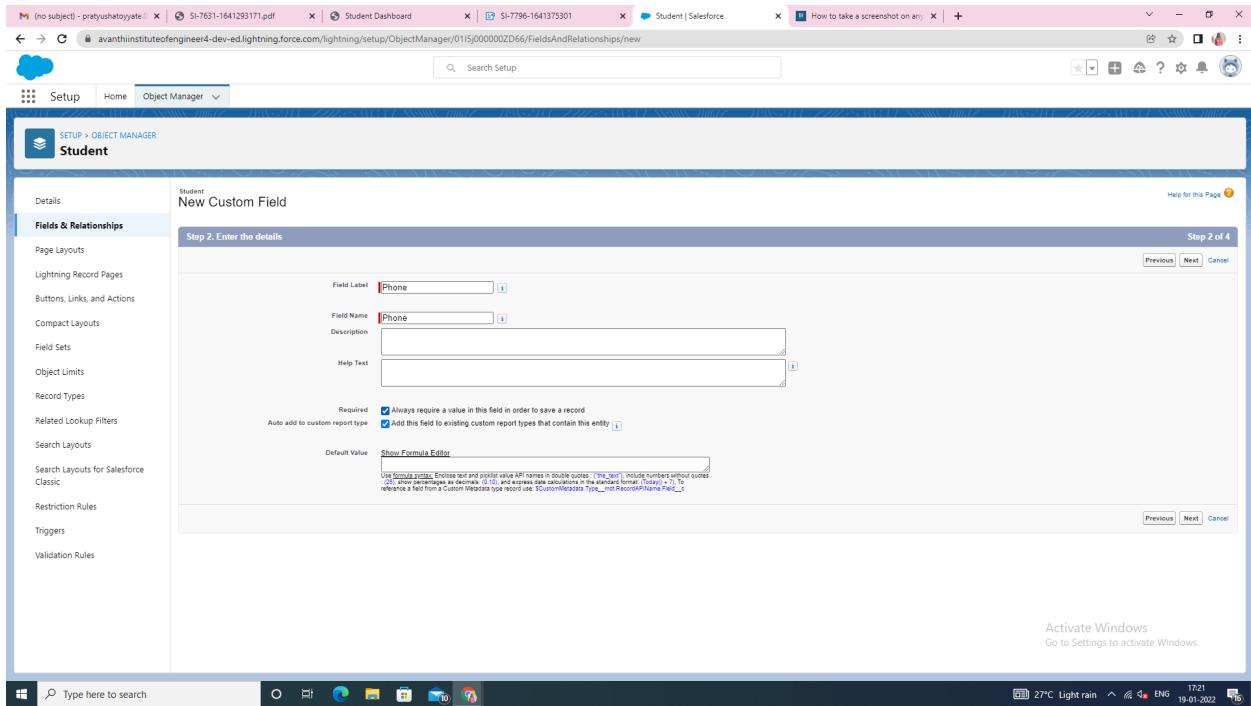
Step 5: Create a fieldname **Guardian Name** with Text datatype .

Upload the Screenshot the Milestone / Activities :



Step 6: Create a fieldname Phone with Phone datatype .

Upload the Screenshot the Milestone / Activities :

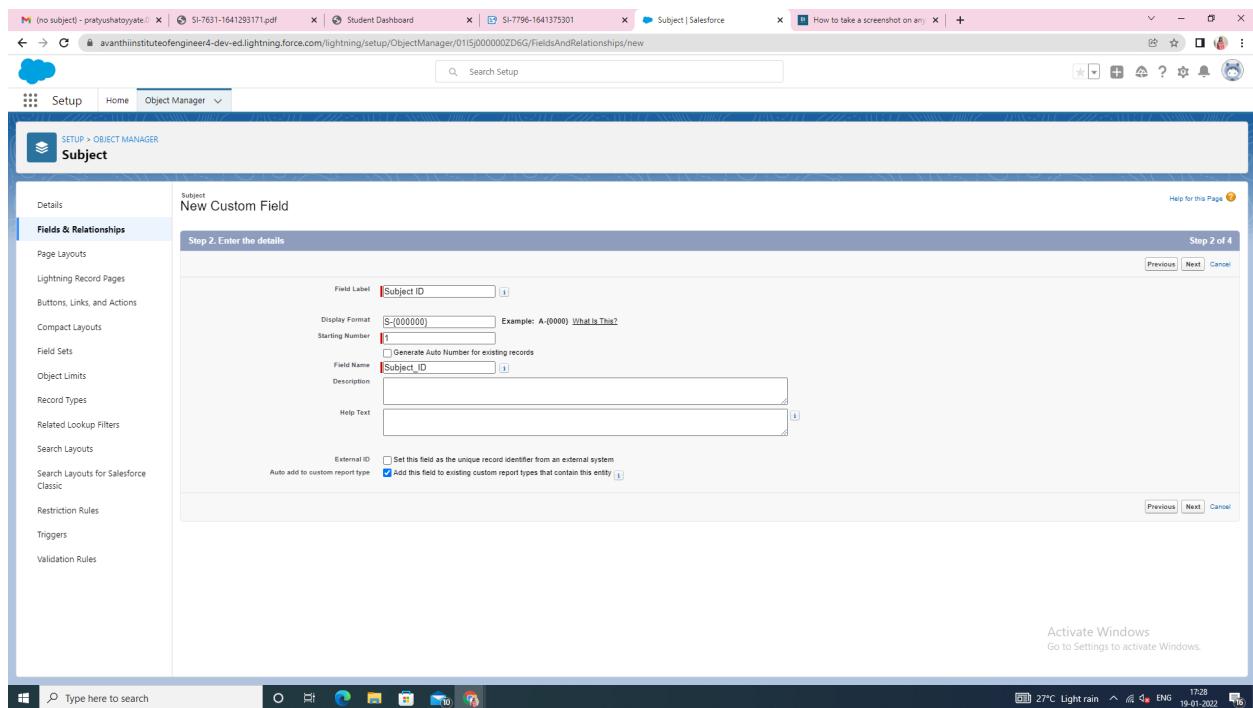


Create fields on Subject Object:

Now we will open subject object in object manager. And we will create fields in fields and relationship .

Step 1: Create a fieldname Subject ID with Autonumber datatype.

Upload the Screenshot the Milestone / Activities :



Step 2: Create a fieldname Paper 1 with picklist datatype.

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce Object Manager interface for creating a new custom field. The left sidebar lists various setup categories like Page Layouts, Lightning Record Pages, and Field Sets. The main area is titled 'Subject New Custom Field' and is on 'Step 2. Enter the details'. The 'Field Label' is set to 'Paper 1'. Under 'Values', the 'Use global picklist value set' radio button is selected, and a dropdown menu shows 'Paper 1'. Other options include 'Enter values, with each value separated by a new line' and 'Restrict picklist to the values defined in the value set'. The 'Field Name' is 'Paper_1'. There's a 'Description' input field and a 'Help Text' input field. Under 'Required', there are two checkboxes: 'Always require a value in this field in order to save a record' (unchecked) and 'Add this field to existing custom report types that contain this entity' (checked). The 'Default Value' section contains a formula editor with placeholder code. At the bottom right, there's an 'Activate Windows' watermark.

Step 3: Create a fieldname Paper 2 with picklist datatype.

Upload the Screenshot the Milestone / Activities :

This screenshot is identical to the one above, showing the creation of a new custom field named 'Paper 2'. The 'Field Label' is 'Paper 2', 'Field Name' is 'Paper_2', and 'Values' are set to 'Use global picklist value set' with a dropdown showing 'Paper2'. The rest of the configuration (Description, Help Text, Required checkboxes, and Default Value formula) is also identical to the first screenshot.

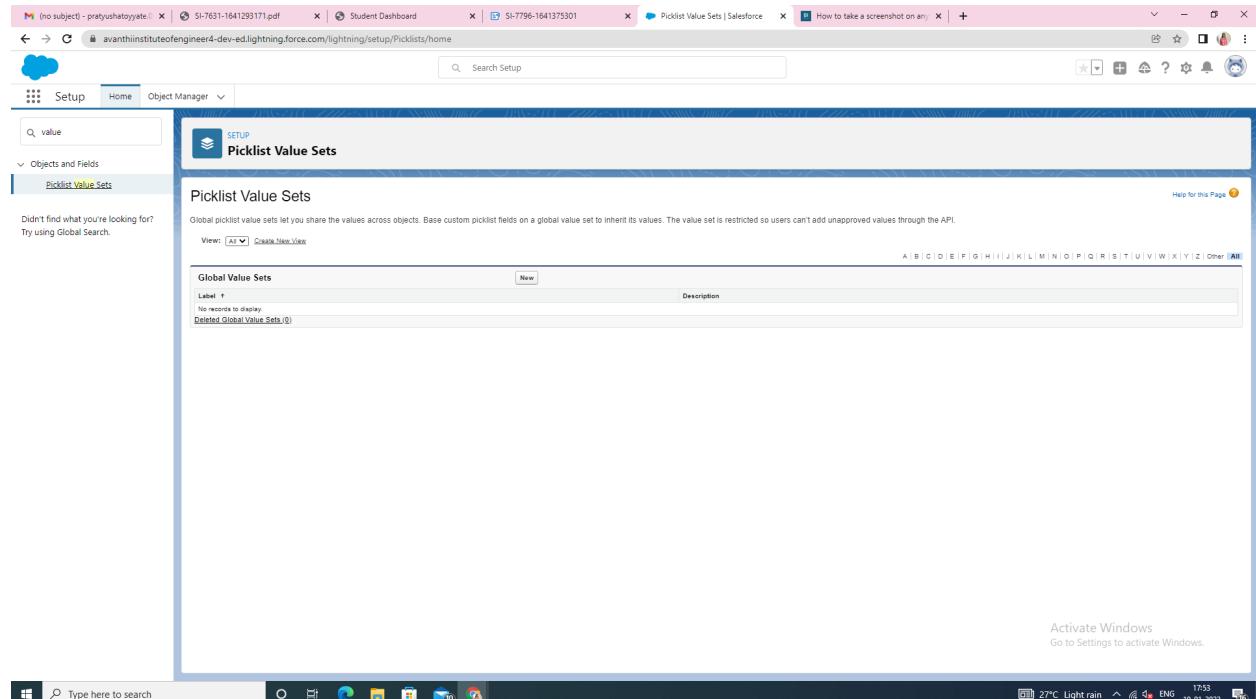
Day 3: 05/01/2022

Adding Business Logic to Application

CREATING GLOBAL PICKLIST VALUES:

First I have created global picklist value sets Setup>Quick Find box>picklist value sets>new then

Upload the Screenshot the Milestone / Activities :



Step 1: Create a college picklist with values:

MIT-HYD

MIT-BLR

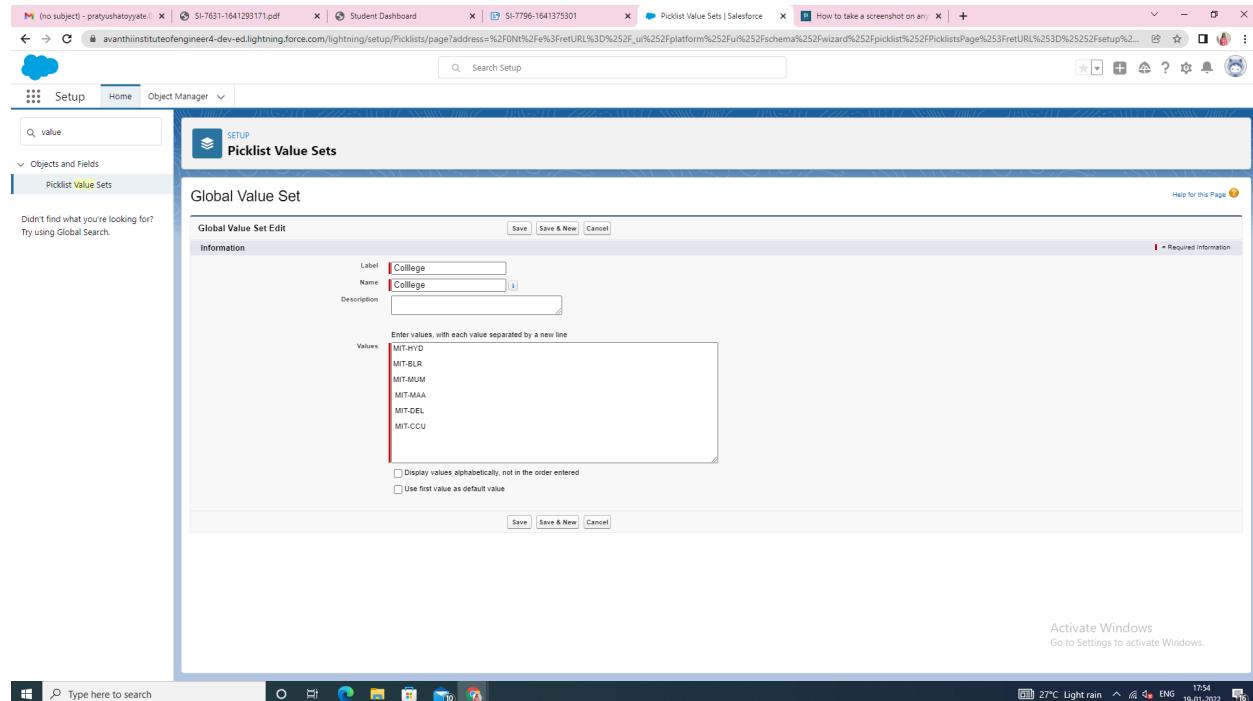
MIT-MUM

MIT-MAA

MIT-DEL

MIT-CCU

Upload the Screenshot the Milestone / Activities :



Step 2: Create a Paper1 picklist with values:

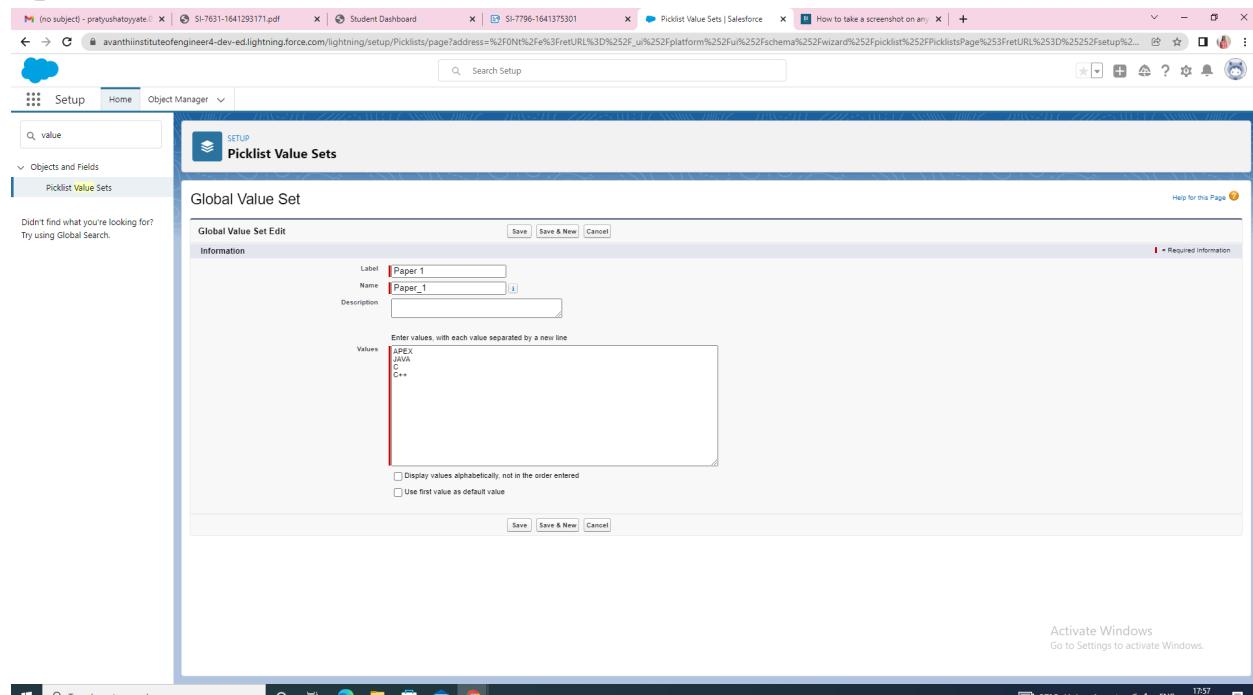
APEX

JAVA

C

C++

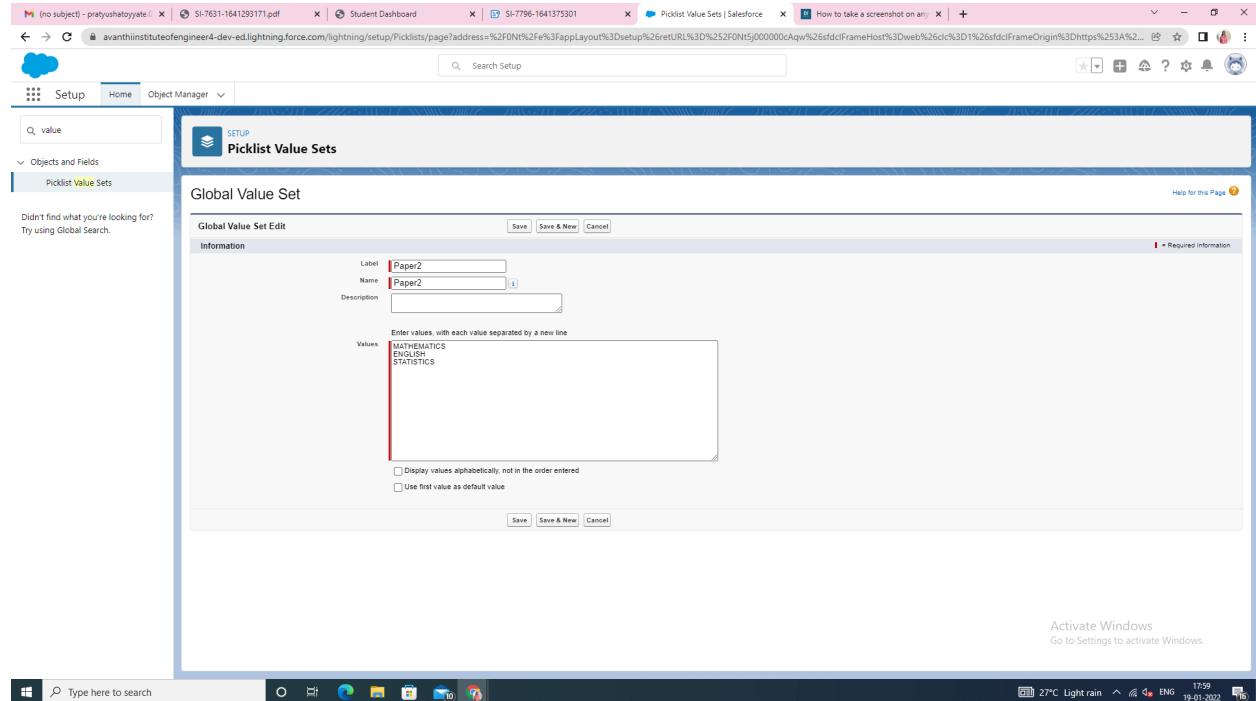
Upload the Screenshot the Milestone / Activities :



Step 3: Create a Paper2 picklist with values:

MATHEMATICS
ENGLISH
STATISTICS

Upload the Screenshot the Milestone / Activities :

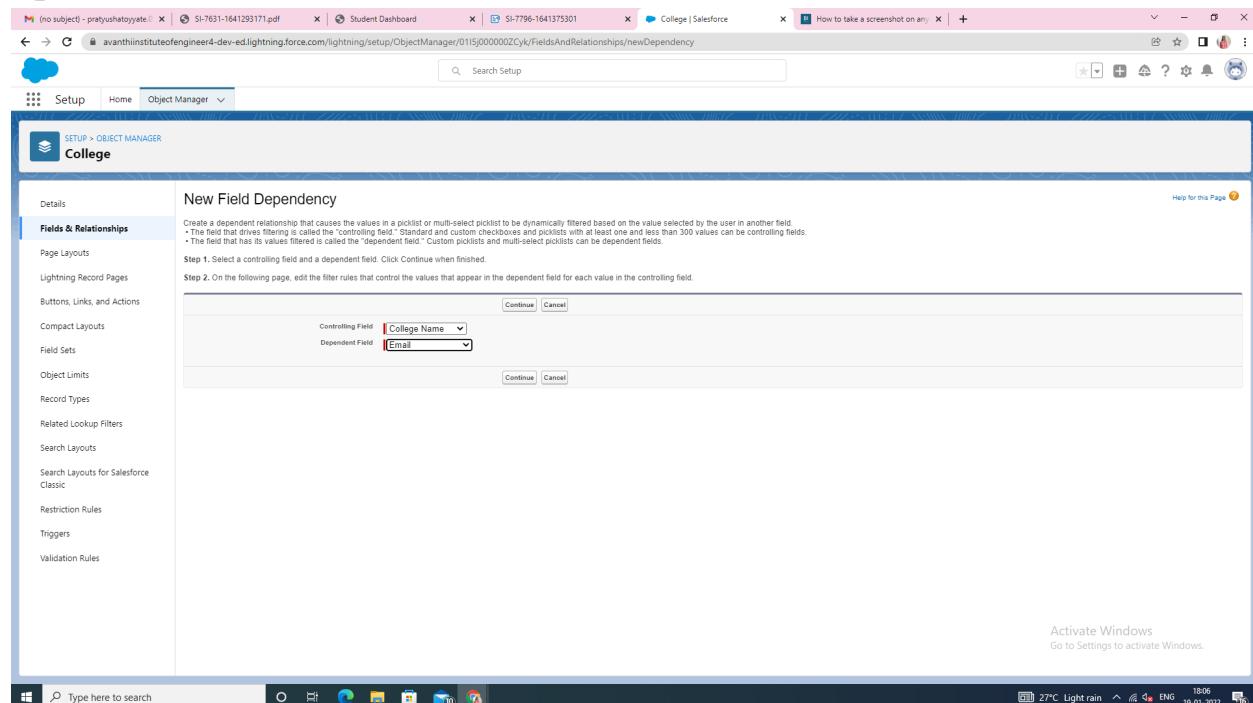


Creating Field Dependencies:

I have created field dependencies ,setup>object manager>college>field and relationship>field dependencies>new

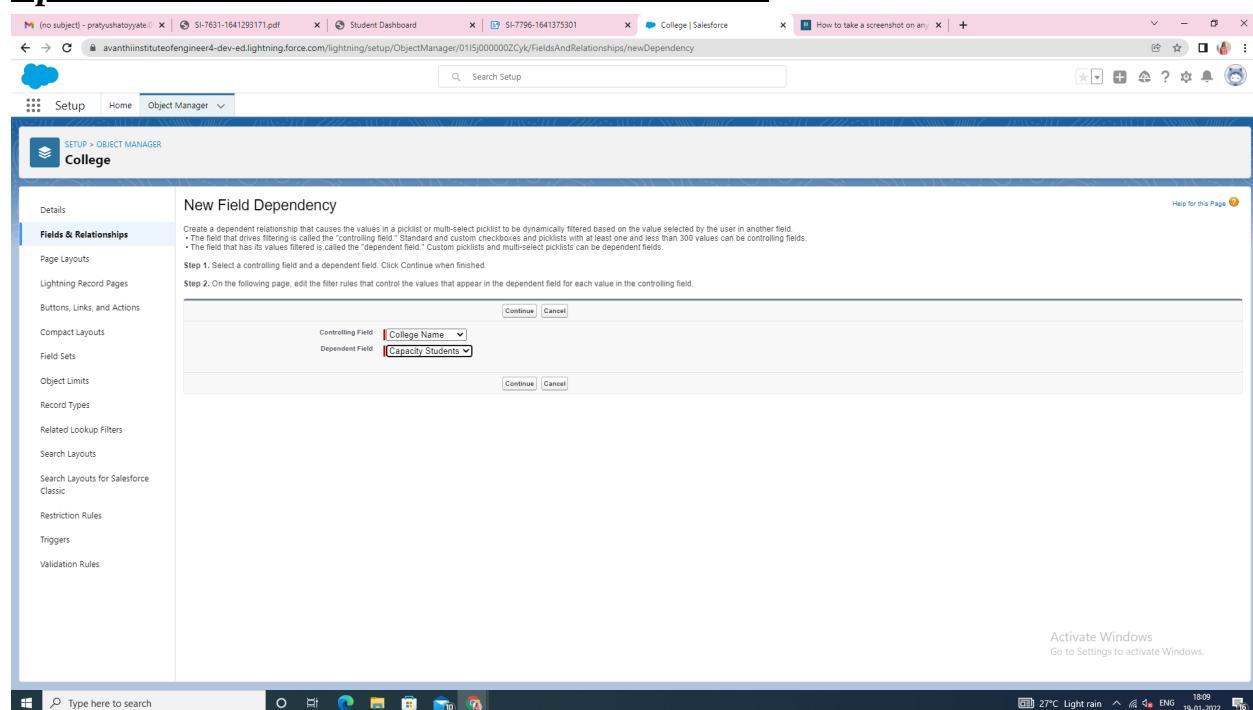
Creating field dependency between college Name and Email, where the controlling field is college Name and dependent field is Email. Select the email ids according to the college names.

Upload the Screenshot the Milestone / Activities :



Creating 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.

Upload the Screenshot the Milestone / Activities :



Creating validation rules:

I have created validation rule , setup>object manager >college>validation rule>new.

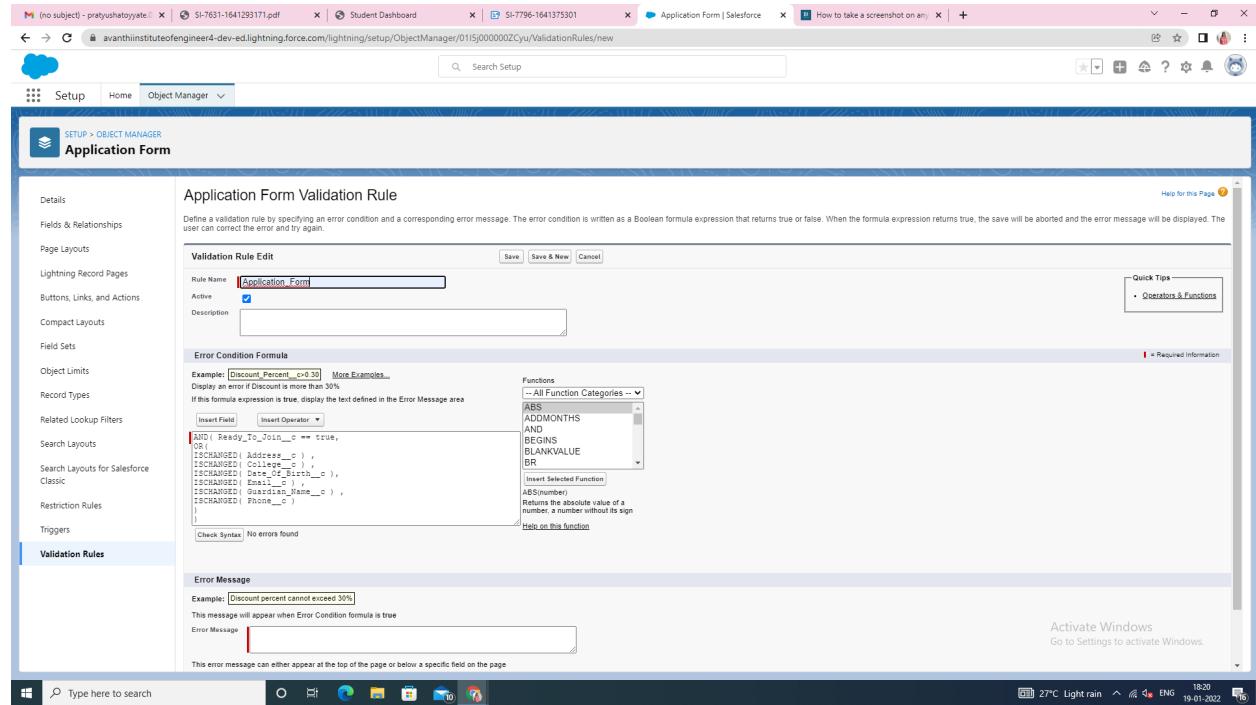
Creating a validation rule on the college object:

Upload the Screenshot the Milestone / Activities :

The screenshot shows the 'Validation Rule Edit' page for the 'College' object. The 'Rule Name' is set to 'College'. The 'Active' checkbox is checked. The 'Description' field is empty. In the 'Validation Condition Formula' section, the formula is 'TEXT(College_Name__c) <> Name'. A dropdown menu for functions is open, showing options like ABS, ADDMONTHS, AND, BEGINS, BLANKVALUE, BR, and Insert Selected Function. Below the formula, there is an 'Error Message' section with the message 'Discount percent cannot exceed 30%'. The status bar at the bottom right shows 'Activate Windows Go to Settings to activate Windows.'

Creating a validation rule on the application form:

Upload the Screenshot the Milestone / Activities :

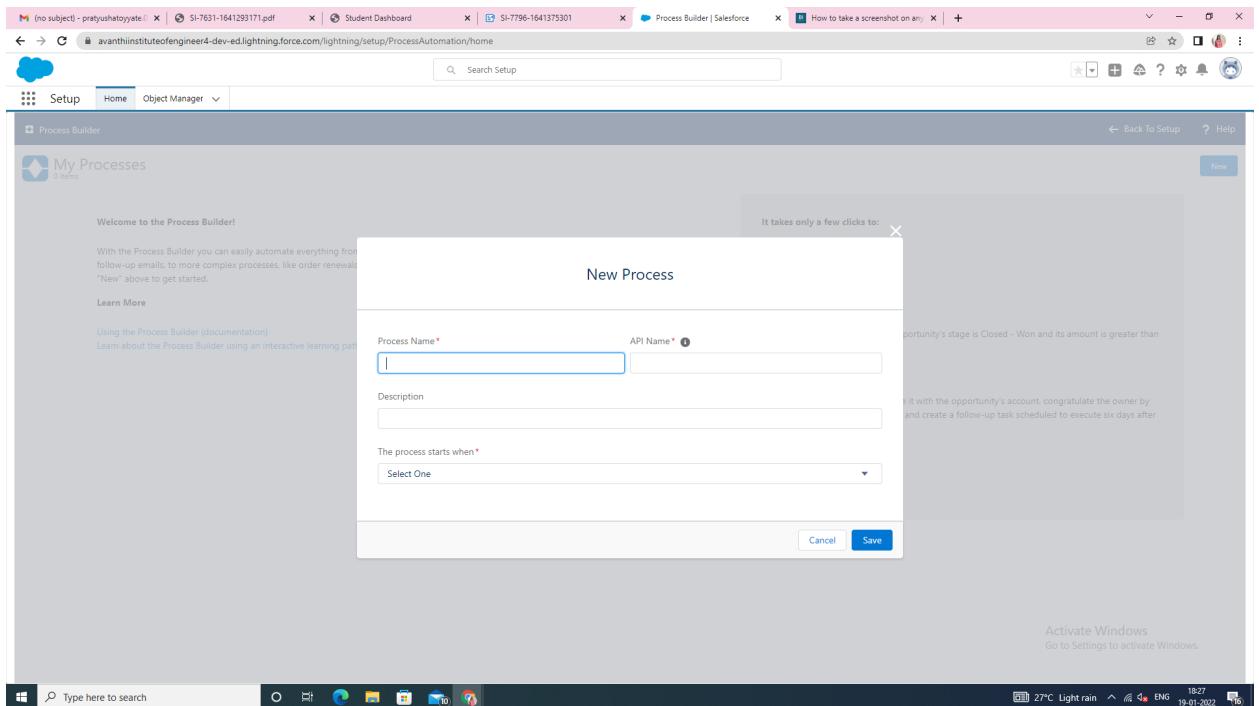


Day 4 : 06/01/2022

Process Automation:

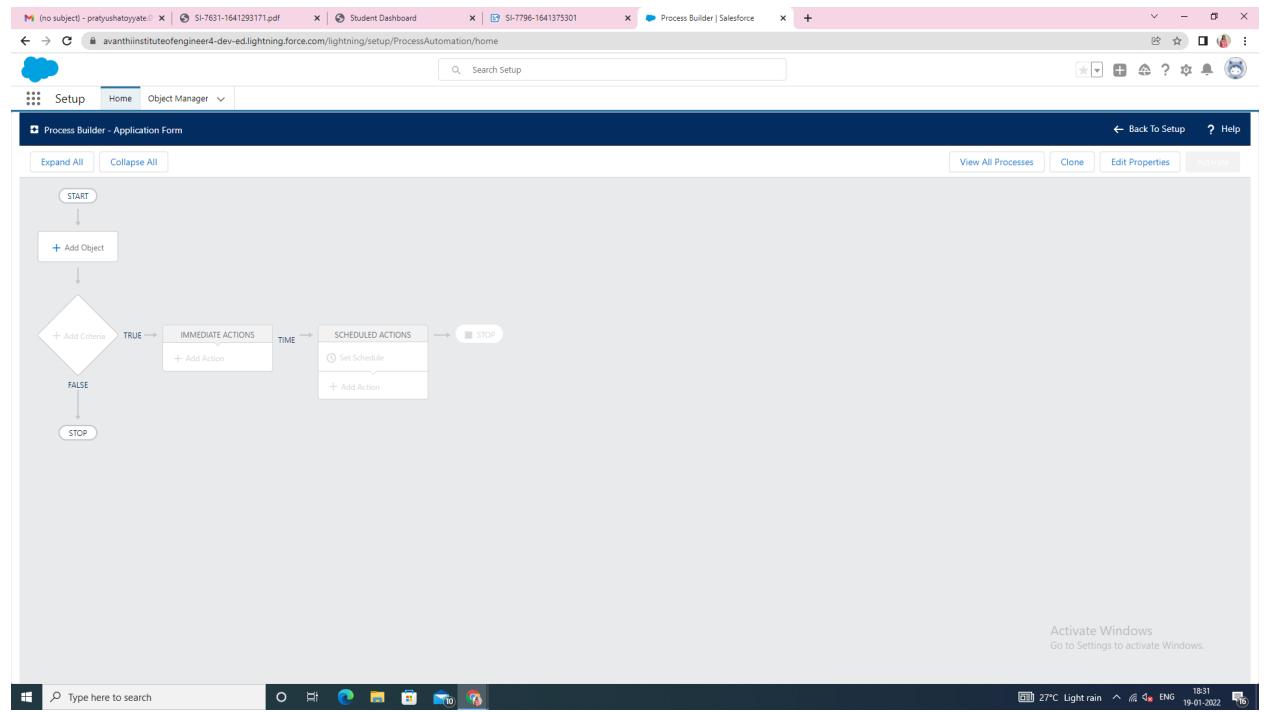
I Have Created Builder Named Application Form Process Master Setup>Quick Find box>process builder >New

Upload the Screenshot the Milestone / Activities :



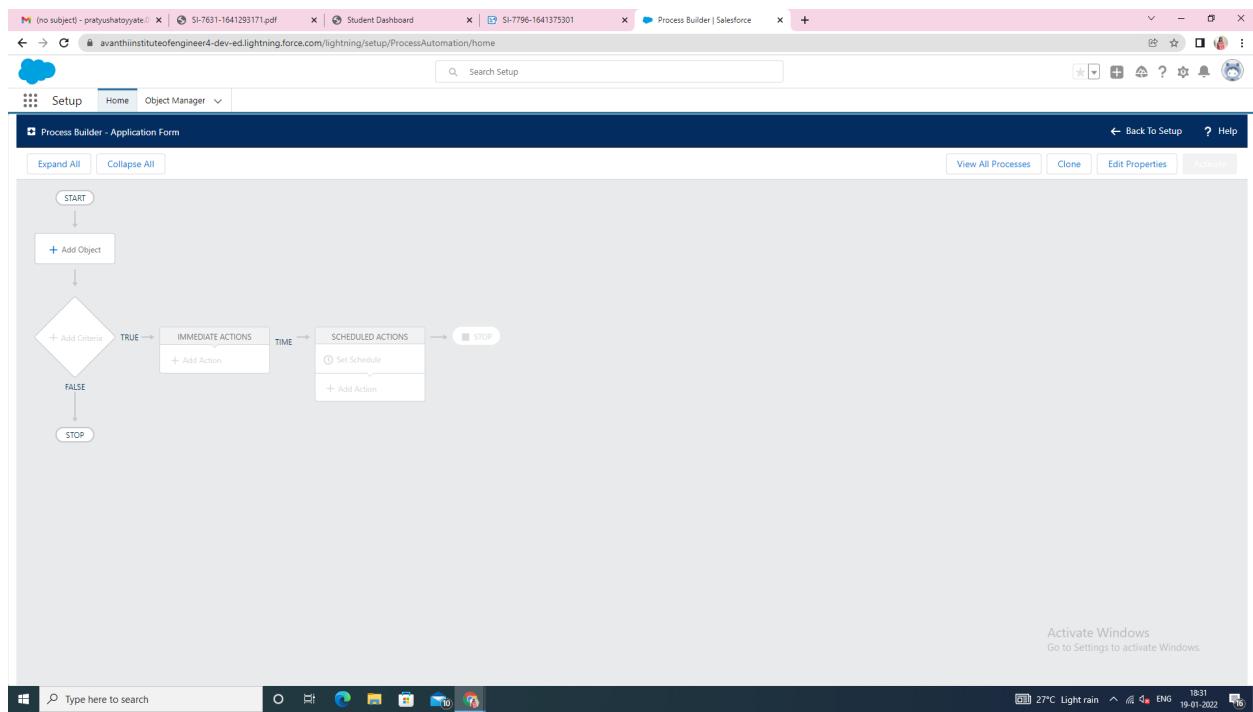
Go to Setup -> select "Process Builder" from quick find. Create a Process Builder on the "Application Form" object with a condition as "When a record change". And select "When a record is created or edited".

Upload the Screenshot the Milestone / Activities :



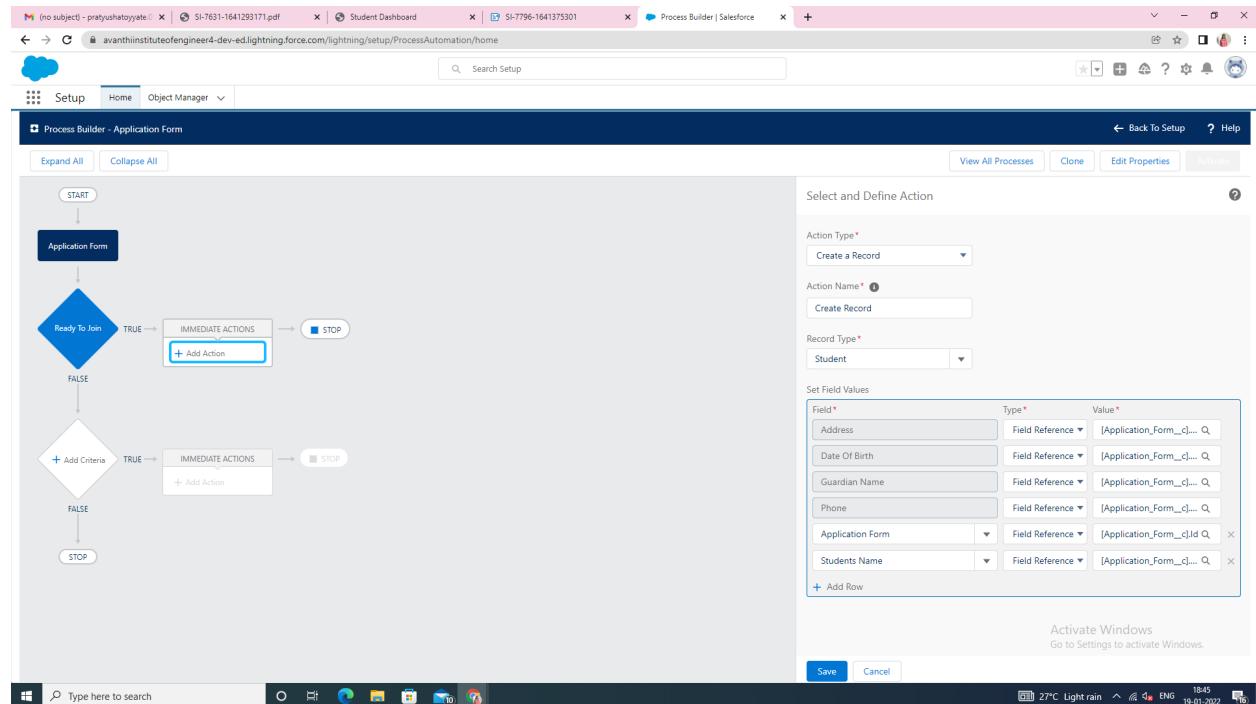
In the diamond shape box select the criteria which trigger the Process builder to fire.

Upload the Screenshot the Milestone / Activities :



It is "When Ready to Join field is checked." Once the node is setup, click on the adjacent box called "Immediate action". And select create a record on the student object.

Upload the Screenshot the Milestone / Activities :



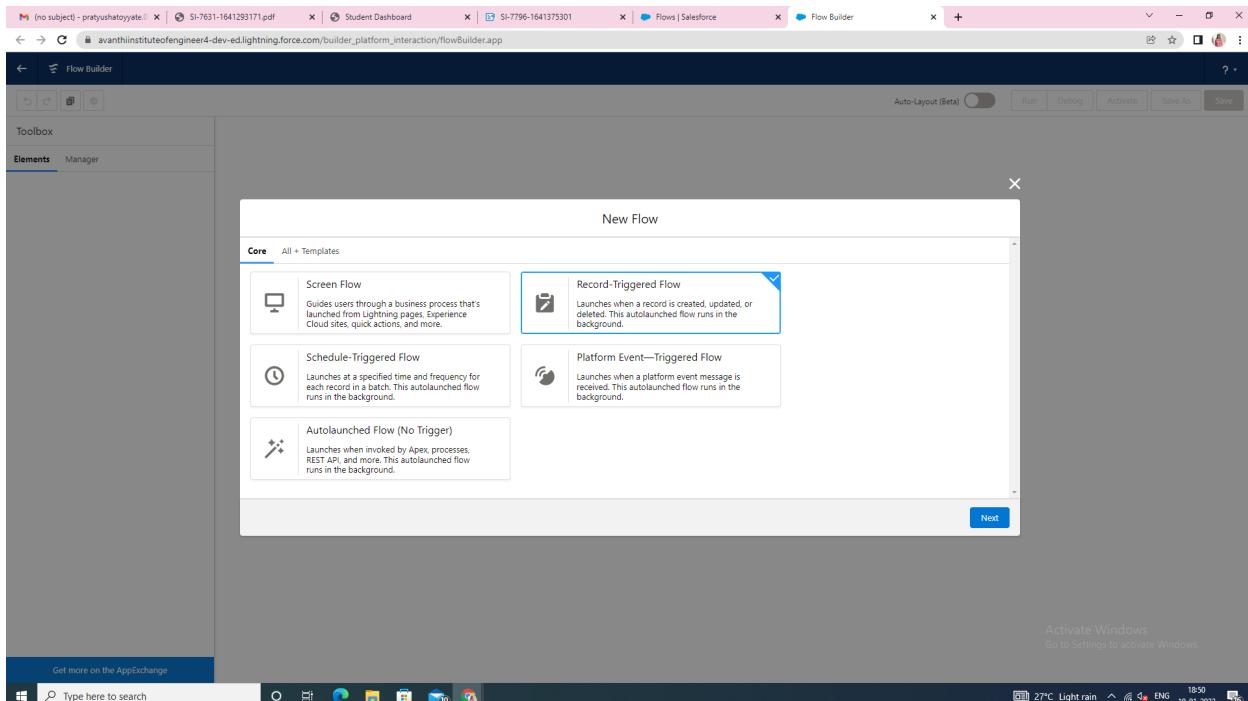
Day 5 : 07/01/2022

Create The Student Record Using Flow:

Step 1. First deactivate the process builder which we created earlier.

Now search for flows and select new flow ->record triggered flow.

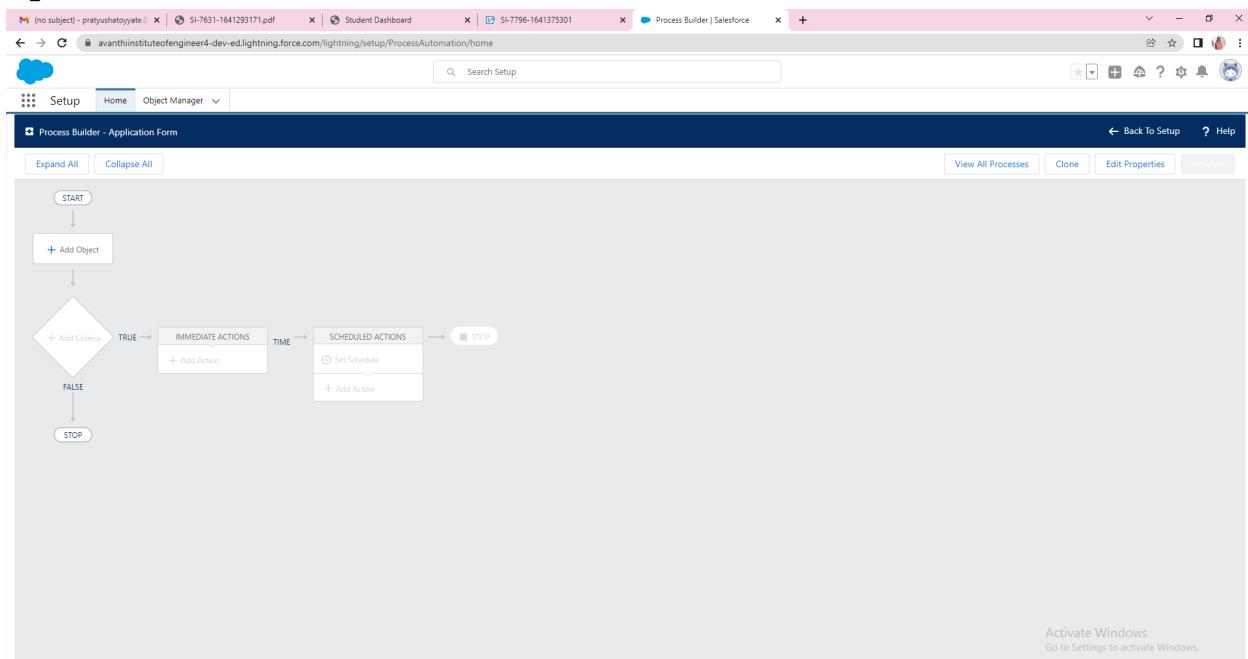
Upload the Screenshot the Milestone / Activities :



Step-2: 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.

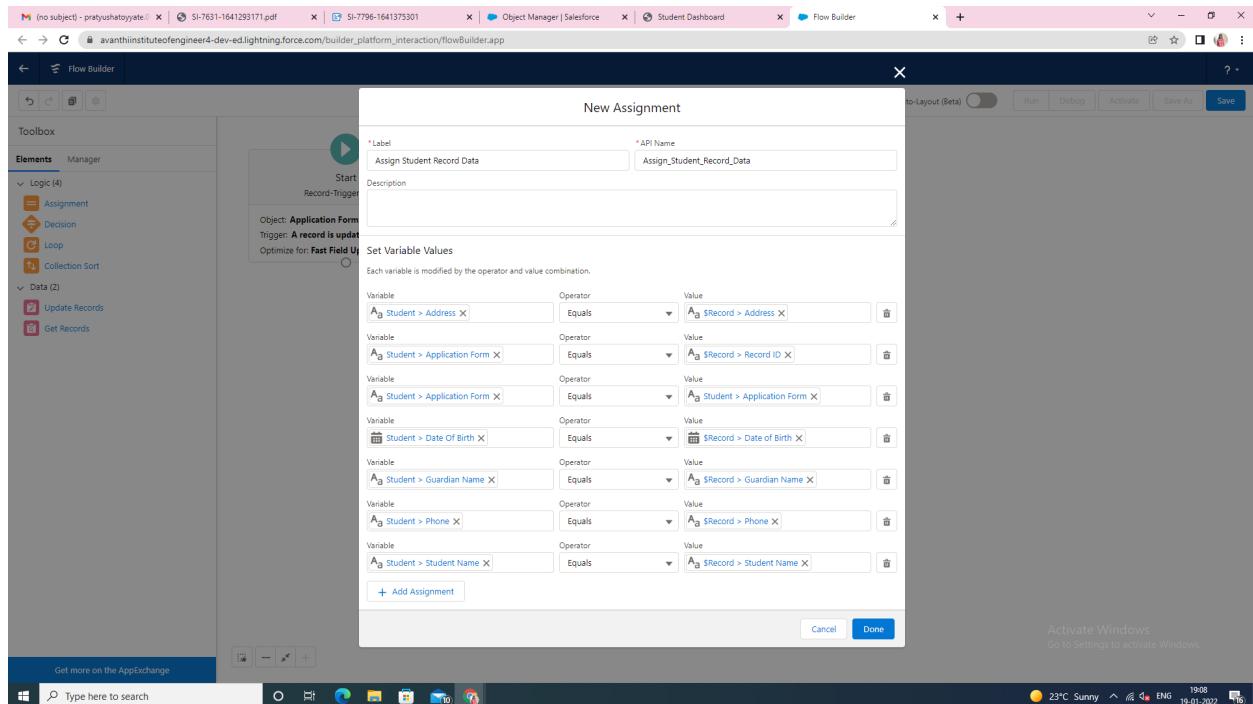
Now create a variable named student in the resource section.

Upload the Screenshot the Milestone / Activities :



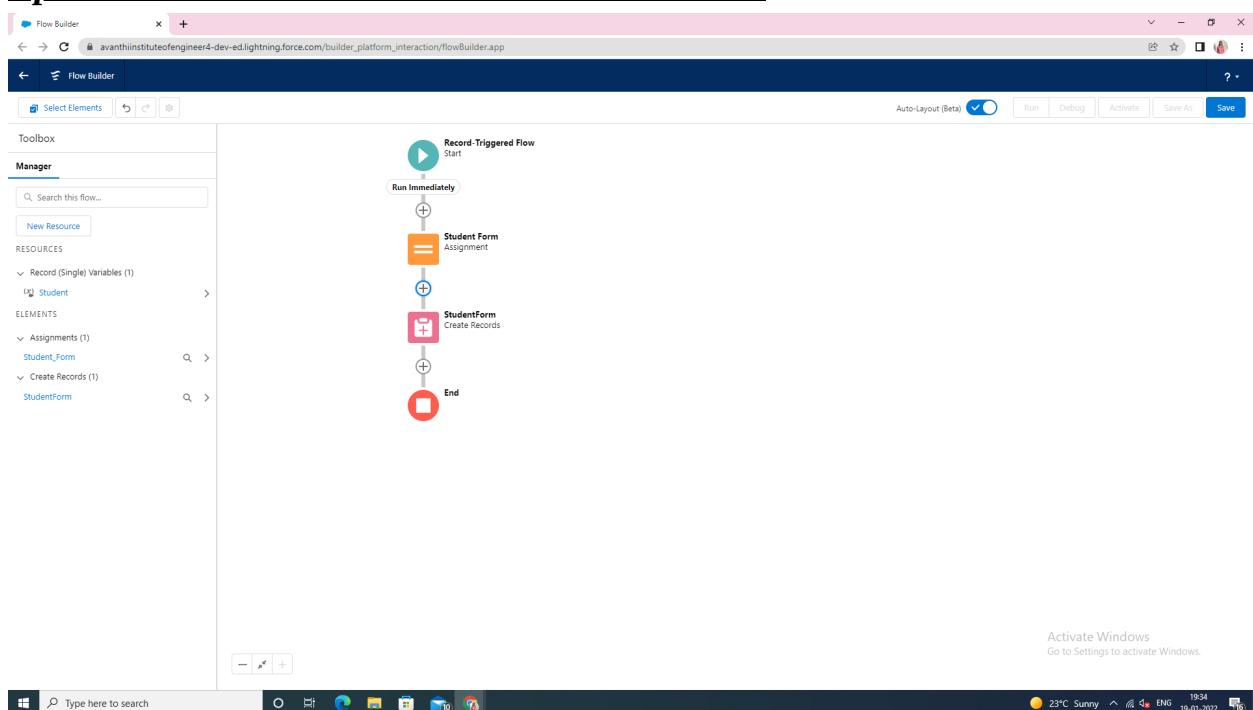
Step -3. Now adding the assignment

Upload the Screenshot the Milestone / Activities :



Step-4: Add Record

Upload the Screenshot the Milestone / Activities :

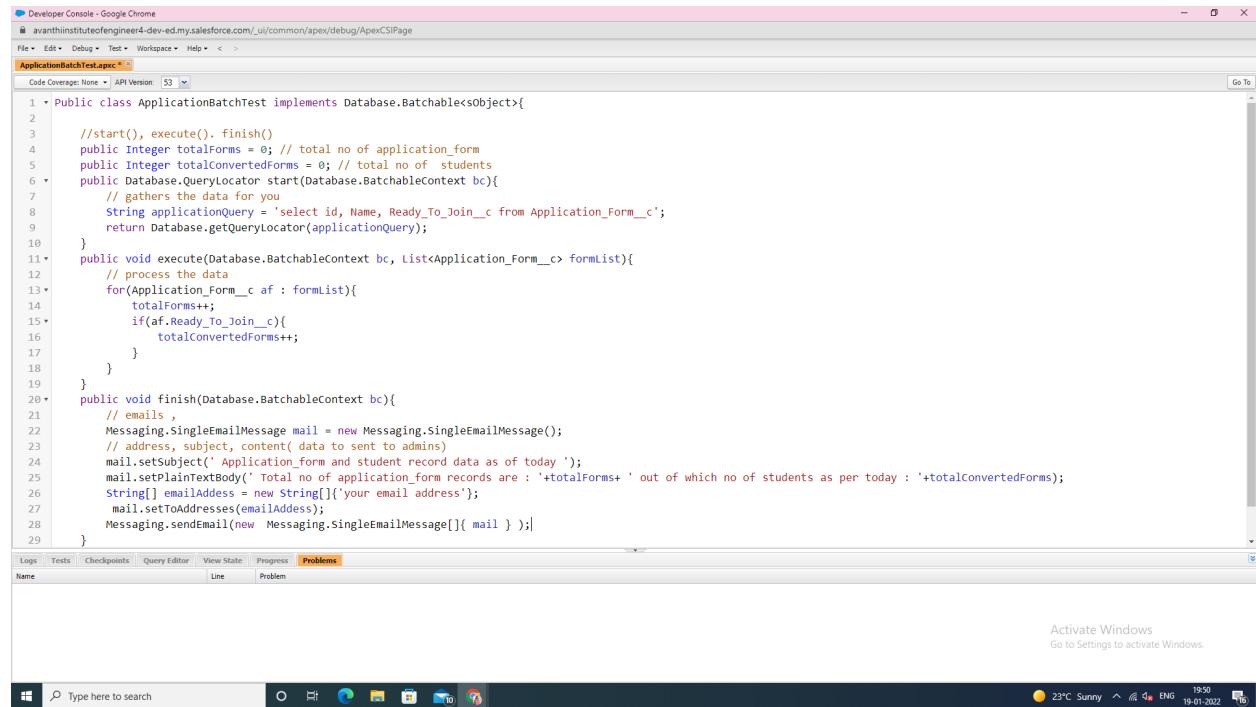


Day 6 : 10/01/2022

Batch Apex:

Create A Batchapex For Application Form:

Upload the Screenshot the Milestone / Activities :



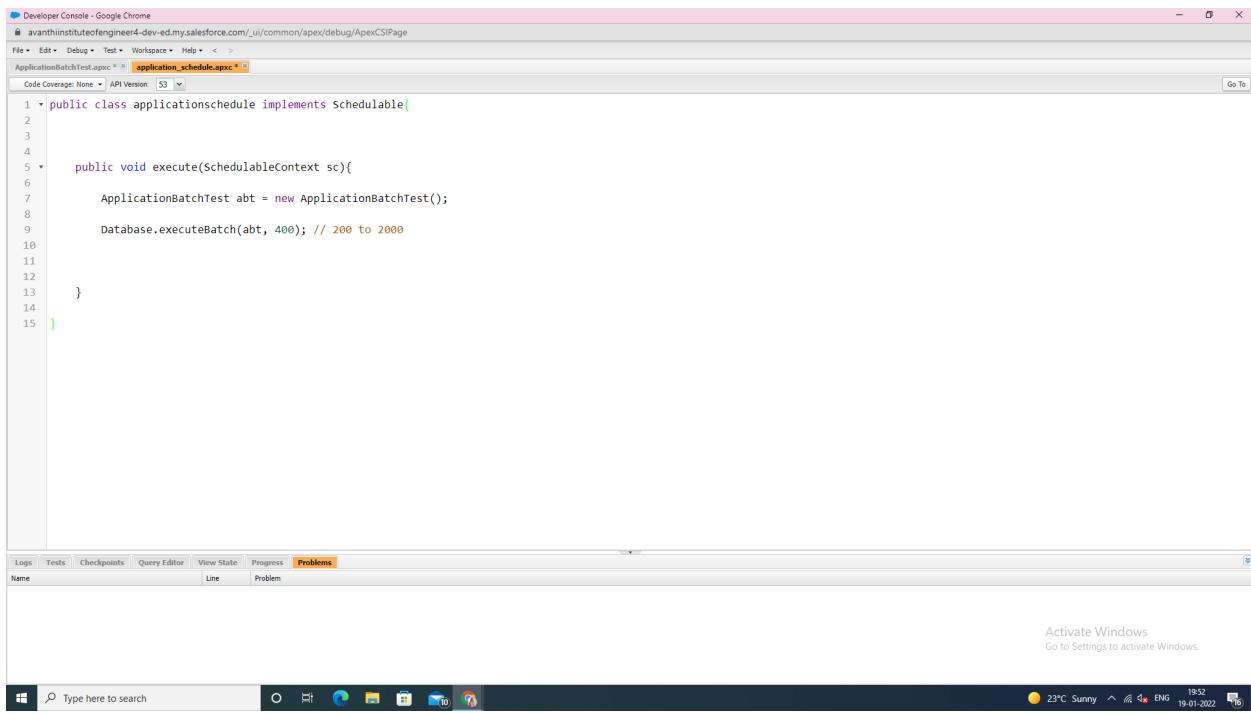
The screenshot shows the Salesforce Developer Console in Google Chrome. The URL is avanthinstituteofengineering4-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage. The tab title is "ApplicationBatchTest.apc". The code editor contains the following Apex class:

```
1 Public class ApplicationBatchTest implements Database.Batchable<sObject>{
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[]{your_email_address};
27        mail.setToAddresses(emailAddress);
28        Messaging.sendEmail(new Messaging.SingleEmailMessage[]{ mail });
29    }
}
```

The code implements a batchable class for processing application forms. It counts the total number of forms and students. It also sends an email to the specified address with the total count of forms and students.

Day 7 : 11/01/2022

Create A Schedular Class:



The screenshot shows the Salesforce Developer Console interface. The title bar reads "Developer Console - Google Chrome". The main area displays the code for the `application_schedule.apxc` class. The code implements the `Schedulable` interface and contains a single method `execute` that creates and executes a batch test. The code editor has syntax highlighting and line numbers. Below the code editor is a navigation bar with tabs: Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Problems tab is selected, showing no errors. At the bottom of the screen is a Windows taskbar with various icons and system status information.

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

Day 8 : 12/01/2022

Lightning Web Components:

Create College DataTable Component(APEX CLASS):

Upload the Screenshot the Milestone / Activities :

```
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 }
15 }
```

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

Name Line Problem

Activate Windows
Go to Settings to activate Windows.

Type here to search 23°C Sunny 20:00 19-01-2022

Day 9 : 13/01/2022

Create College DataTable Component (HTML FILE):

Upload the Screenshot the Milestone / Activities :

The screenshot shows the Salesforce LWC Editor (Beta) interface. On the left, there's a sidebar with icons for Apex Classes and Lightning Web Components. The main area has a search bar and tabs for 'APEX CLASSES' and 'LIGHTNING WEB COMPONENTS'. A code editor window titled 'getapplication.html' is open, displaying the following code:

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

Below the code editor is a 'Result Panel' showing the deployment status:

```
1 getapplication.html successfully deployed source
```

At the bottom right of the screen, there's a Windows taskbar with the date and time (19-01-2022 10:58:13 PM), system icons, and a battery indicator.

Day 10 : 14/01/2022

Create College DataTable Component(JAVA SCRI

FILE):

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The screenshot shows the Salesforce LWC Editor (Beta) interface. On the left, there's a sidebar with icons for Apex Classes, Lightning Web Components, and other components. The main area displays the code for `getapplication.js`:

```
1 import { LightningElement, api, wire } from 'lwc';
2 import getapplicationvalues
3 from @salesforce/apex/GetapplicationDetails.getapplicationvalues';
4 export default class CollegeDataTable extends LightningElement {
5 columnsList = [
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'})
```

Below the code editor is a Result Panel showing the deployment status:

1 getapplication.js successfully deployed source 1/19/2022 11:19:18 PM

The taskbar at the bottom shows the date as 19-01-2022 and the time as 23:19.

Day 11 : 17/01/2022

Create College DataTable Component(META FILE):

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The screenshot shows the Salesforce LWC Editor interface. On the left, there's a sidebar with icons for Apex Classes, Lightning Web Components, and other components. The main area has two tabs: 'getapplication.js' and 'getapplication.js-meta.xml'. The code editor displays the XML metadata for the Lightning Web Component:

```

<?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>
<target>lightning__Tab</target>
</targets>
</LightningComponentBundle>

```

Below the code editor is a 'Result Panel' window showing the message: '1 getapplication.js successfully deployed source' at '1/19/2022 11:19:18 PM'. The taskbar at the bottom shows various application icons.

Day 12 : 18/01/2022

Create Data Table Tab in the Lightning app page.

Upload the Screenshot the Milestone / Activities :

