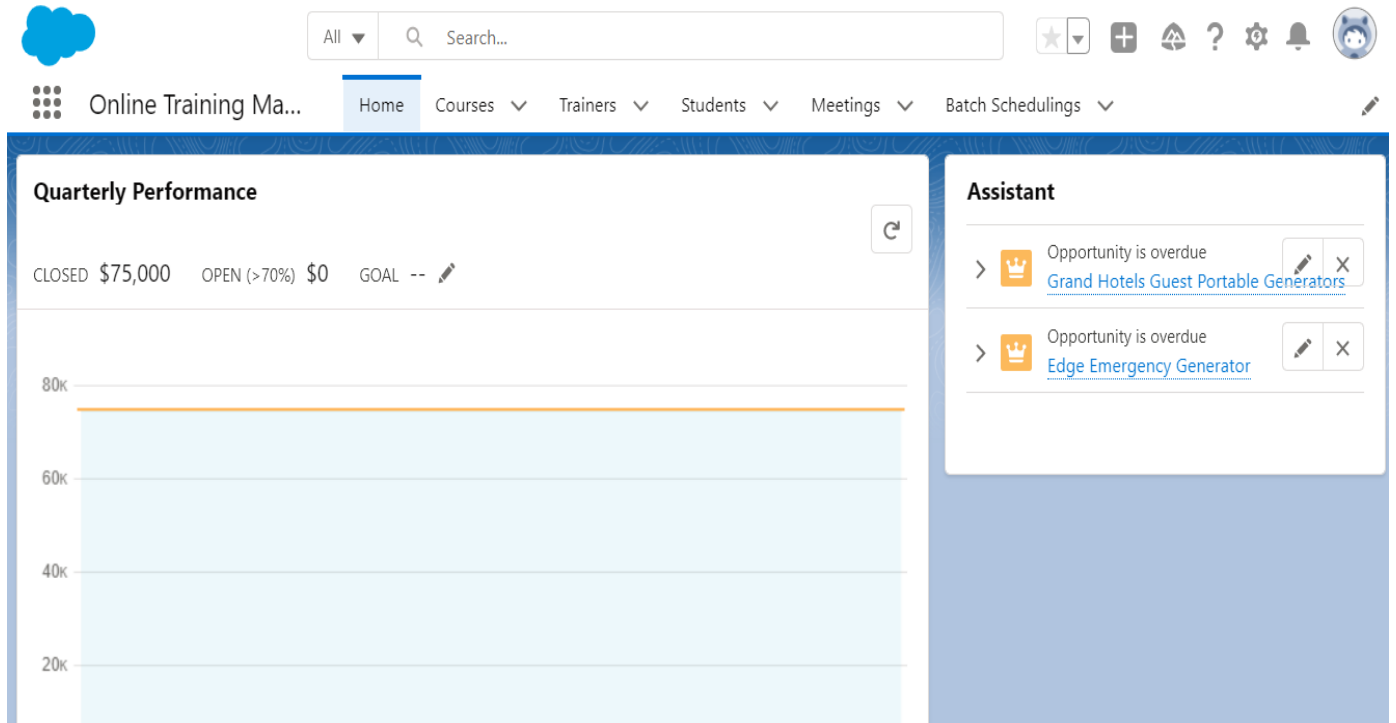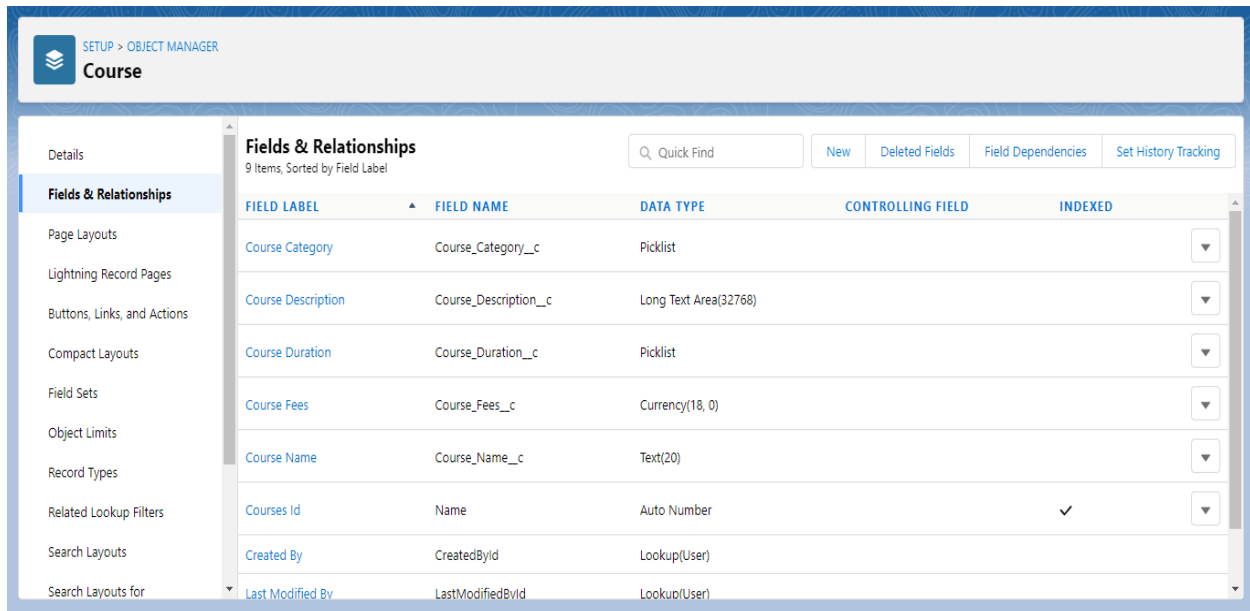DAY 1

Created salesforce developer org and custom app "ONLINE TRAINING MANAGEMENT" along with the custom objects i.e, Course, Trainers, Students, Meetings and Batch Schedulings.

DAY 2:

After creation of custom app and its objects, then created custom fields to the particular object:
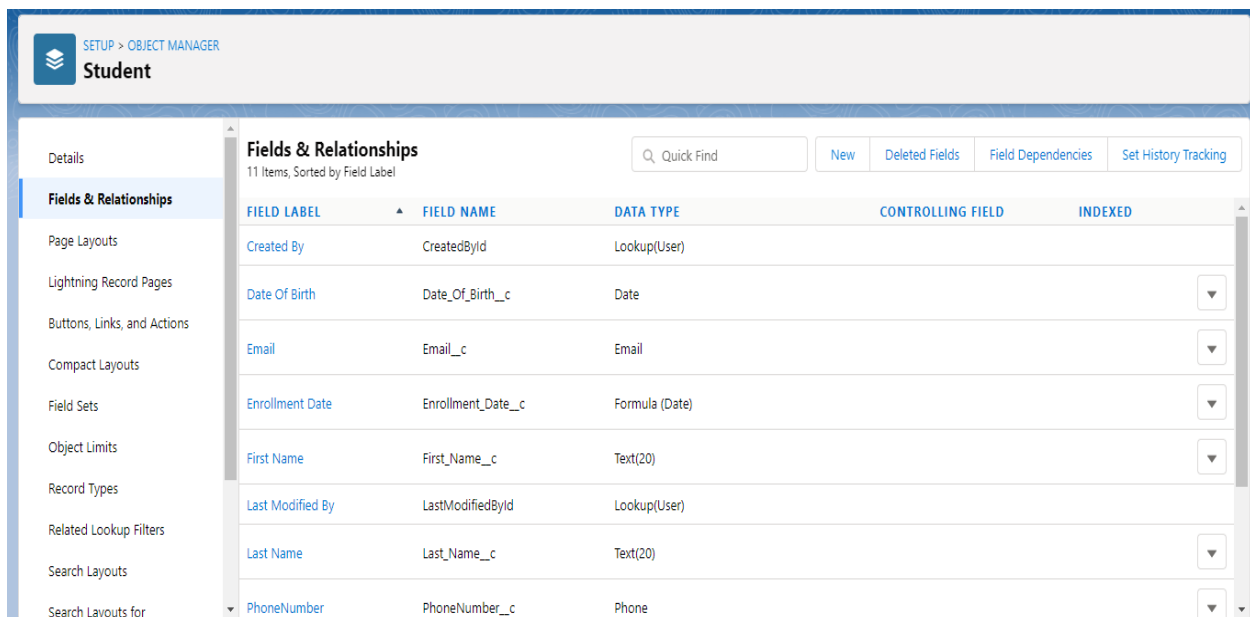
Course object fields:

Students objects fields:

Trainer object fields:

Meeting object fields:

Batch scheduling object fields:

SCHEMA:

VALIDATION RULES:

Create Validation Rules On Course Object:

1.Course Fees Cannot be Negative: From Object Manager select the course object and click on validation rules, give your rule a name and in error condition formula enter "Course_Fee__c<0", give error message according to the condition.

Course Validation Rule
Back to Course

Validation Rule Detail   Edit   Clone

Rule Name	Course_Fees_Cannot_be_Negative	Active	✓
Error Condition Formula	Course_Fees__c < 0		
Error Message	Course fee should not be negative	Error Location	Course Fees
Description			
Created By	Sanath DM, 1/6/2022, 7:32 AM	Modified By	Sanath DM, 1/6/2022, 7:35 AM

Edit   Clone

O/P:If we entered fee less than zero it will hit a warnig-->

2.Course Fees Should Be Less than 3000$: From Object Manager select the course object and click on validation rules, give your rule a name and in error condition formula enter "Course_Fee__c>=3000",give error message according to the condition.

Course Validation Rule

Help for this Page

Back to Course

Validation Rule Detail

Edit   Clone

Rule Name	Course_fee_should_be_less_than_3000	Active	✓
Error Condition Formula	Course_Fees__c >=3000		
Error Message	Course Fees Should Be LESS than 3000$	Error Location	Course Fees
Description			
Created By	Sanath DM, 1/6/2022, 7:35 AM	Modified By	Sanath DM, 1/6/2022, 7:35 AM

Edit   Clone

O/P:Course fee should be less than 3000:

Ma...

ed ▾

*Course Name
Admin

*Course Duration
1month

*Course Fees
$3,007

Course Fees Should Be LESS than 3000$

Course Description

*Course Category
cloud compu

⊘ **We hit a snag.**   ×

Review the following fields
• Course Fees

*Trainer
T-00004

⊘   Cancel   Save & New   **Save**

Create Validation Rules On Trainer Object

1.Full Name, Phone Number, Dateof Birth , Experience fields on the trainer object should not be blank: Search for Trainer Object from the object manager ,click on validation rules, click new and give your rule a name, in error condition formula enter "ISBLANK(Field Name)" and enter the error message according to the validation rule.

Trainer Validation Rule
Back to Trainer

Validation Rule Detail   Edit   Clone

Rule Name	Specified_fields_should_not_be_blank	Active	✓
Error Condition Formula	OR(ISBLANK(DateofBirth__c), ISBLANK(Full_Name__c), ISBLANK(PhoneNumber__c), ISBLANK(TEXT(Experience__c)))		
Error Message	Specified fields should not be null	Error Location	Top of Page
Description			
Created By	Sanath DM, 1/6/2022, 9:04 AM	Modified By	Sanath DM, 1/6/2022, 9:12 AM

Edit   Clone

Working demo:

New Trainer

Information

Trainer Id   Owner
                                                    👤 Sanath DM

* Full Name   ↺
  Sanath DM

* Email   ↺
  sanathdm81@gmail.com

PhoneNumber   ↺

* Whatsapp Num   ⊘ **We hit a snag.**   ⊠
  123456789

                  Review the errors on this page.
* DateofBirth   • age__c<25
                    • Phone_Number_and_Whatsapp_Number_
  1/4/2022   should
                    • Specified fields should not be null
Experience
  --None--

2. Age Should Not Be Less than 25 years: Enter "age__c<25" in error condition formula and enter the error message according to the rule.

working demo:

3.Phone Number and Whatsapp Number should accept minimum 10 digits and maximum 15 digits: In error condition formula enter"NOT(REGEX(FIELDNAME, "[0-9]{10,15}"))" and error message according to the validation rule.

working demo:

Create Validation Rules On Student Object

1. Lastname should not be Blank: enter the following error condition formula "ISBLANK(Field name)" and give the error message according to the rule.

working demo:

2. Minimum 16 years of age: student should be minimum 16 years of age, in error condition formula enter "age__c<16" and give the error message according to the rule.

3.Phone and whatsappNumber should be minimum 10 digits : in error condition formula enter "NOT(REGEX(Fieldname, "[0-9]{10}"))" and give the error message accoding to the validation rule.

Student Validation Rule
Back to Student

Validation Rule Detail   Edit   Clone

Rule Name	Ph_and_whatapp_no_should_be_min_10_dig	Active	✓
Error Condition Formula	OR(NOT(REGEX(PhoneNumber__c , "[0-9]{10,15}")),NOT(REGEX(Whatsapp_Number__c , "[0-9]{10}")))		
Error Message	Ph_and_whatapp_no_should_be_min_10_dig	Error Location	Top of Page
Description			
Created By	Sanath DM, 1/6/2022, 10:11 AM	Modified By	Sanath DM, 1/6/2022, 10:11 AM

Edit   Clone

Working demo:

Sanath

Last Name

DM

*Email

sanathdm81@gmail.com

*PhoneNumber

07676047839

*Date Of Birth

1/5/2022

*Whatsapp Number

07676047839

⊘ **We hit a snag.**   ⊠

*Student Enrollm

Review the errors on this page.
- Ph_and_whatapp_no_should_be_min_10_d ig

B-00003

⊘   Cancel   Save & New   **Save**

Create Validation Rules On Meeting Object

1. Valid From should not be less than current date: Click on validation rules from meeting object, give your rule a name and in error condition formula enter "Valid_from__c < TODAY()" and enter the error message according to the rule.

Working demo:

2.ValidTo Cannot be less than Valid from : Click on validation rules from meeting object, give your rule a name and in error condition formula enter "Valid_to__c < Valid_from__c " and enter the error message according to the rule.

Meeting Validation Rule
Back to Meeting

Validation Rule Detail   Edit   Clone

Rule Name	Valid_From_should_not_less_than_current	Active	✓
Error Condition Formula	Valid_From__c < TODAY()		
Error Message	Valid_From_should_!<_less_than_current	Error Location	Valid From
Description			
Created By	Sanath DM, 1/6/2022, 10:13 AM	Modified By	Sanath DM, 1/6/2022, 10:13 AM

Edit   Clone

Working demo:

New Meeting

Information

Meeting Id   Owner
                                                     👤 Sanath DM

*Valid From   ↺
1/9/2022   📅

*Valid To   ↺
1/5/2022   📅
ValidTo_Cannot_be_less_than_Valid_from

Active
☐

*Meeting Link   ⊘ **We hit a snag.**   ✕
ABC
                    Review the following fields
                    • Valid To

                ⊘   Cancel   Save & New   **Save**

8 AM

3. Minimum 14 days difference should be in between valid from and valid to : Click on validation rules from meeting object, give your rule a name and in error condition formula enter "Valid_to__c - Valid_from__c < 14 " and enter the error message according to the rule.

Meeting Validation Rule
Back to Meeting

Validation Rule Detail   Edit   Clone

Rule Name	min_14_diff_btwn_valid_from_and_valid_to	Active	✓
Error Condition Formula	Valid_To__c - Valid_From__c < 14		
Error Message	14_diff_btwn_valid_from_and_valid_to	Error Location	Top of Page
Description			
Created By	Sanath DM, 1/6/2022, 10:16 AM	Modified By	Sanath DM, 1/8/2022, 10:53 AM

Edit   Clone

Working demo:

New Meeting

Information

Meeting Id   Owner
                                               🐻 Sanath DM

*Valid From   ↺
1/10/2022   📅

*Valid To   ↺
1/20/2022   📅

Active
☐

*Meeting Link   ⊘ **We hit a snag.**   ⊠

ABC   **Review the errors on this page.**
                         • 14_diff_btwn_valid_from_and_valid_to

⊘   Cancel   Save & New   Save

Process Automation

Creating Work Flow Rules On Meeting Object

1. create work flow rule 1 day after valid to date the active check box will uncheck automatically and inform owner:

    a) from set up search for work flow rules, click on new rule select meeting object click next.

    b) enter rule name , in evaluation criteria select created, and any time it's edited to subsequently meet criteria, in rule criteria select formula evaluates to true.

    c) in formula section " TODAY()- VALID_TO__C= 1" click save.

    d) from work flow action select field update.

    e) give a name for your work flow action, select active field and for specify new field value select false.click save.
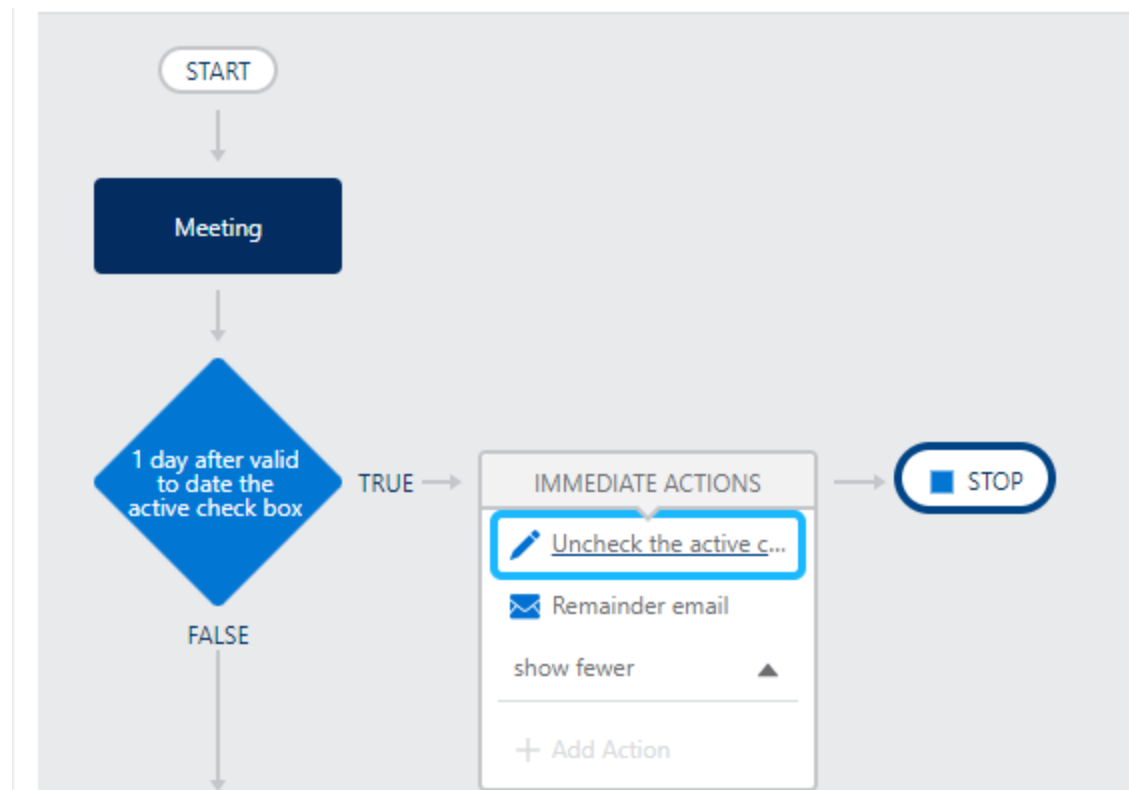
Working demo:

Meeting expires : One day before Inbox ×

Sanath DM <u>via</u> llwmhhbll50h.5j-5jc2reag.ap27.bnc.salesforce.com

to me ▾

Hi, Sanath DM
Hope you are doing well.,

Meeting expires day before yesterday.

| Ok, thanks. | Noted with thanks. | Thanks a lot. |

2.create work flow rule 1 day before valid to date send a reminder email to owner:
   a) from set up search for work flow rules, click on new rule select meeting object click next.
 b) enter rule name , in evaluation criteria select created, and any time it's edited to subsequently meet criteria, in rule criteria select formula evaluates to true.
   c) in formula section " VALID_TO__C - TODAY () = 1" click save.
   d) from work flow action select email alert.
   e) enter all mandatory details , select an email template, search for owner in recipient type and select the owner from the list click save
Make sure to activate the rules.
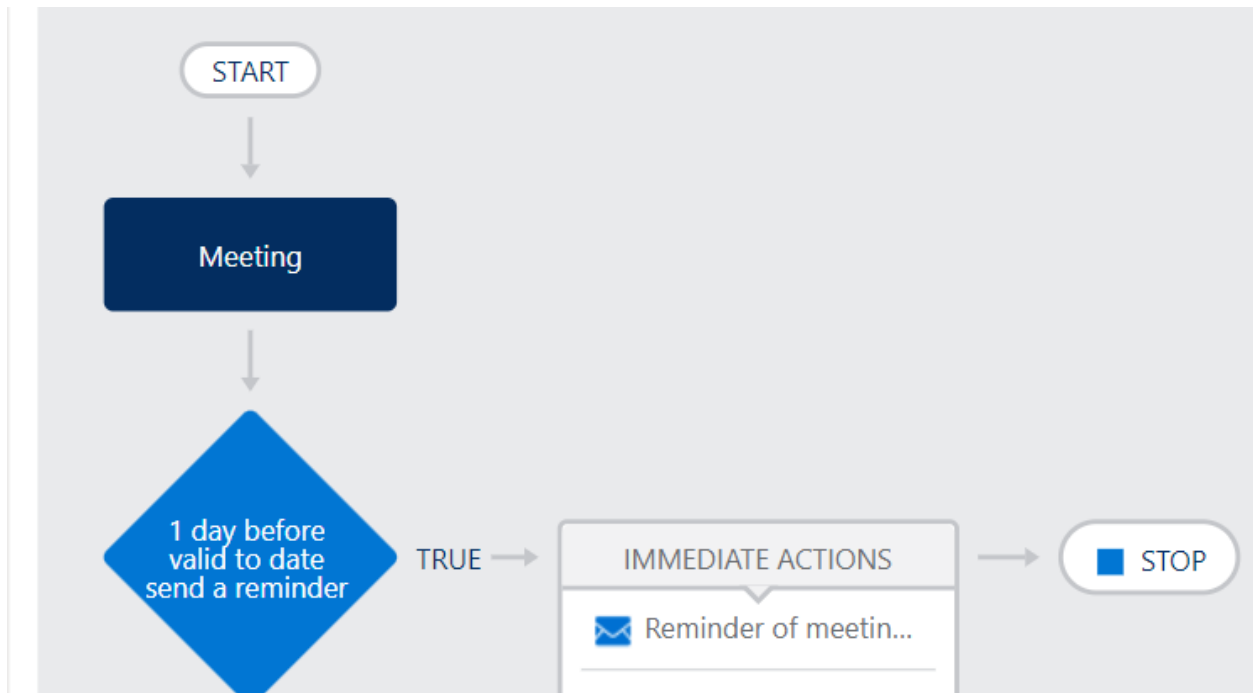
Working demo:

Only one day left : Course Inbox ×

Sanath DM via azeeayzzbz97rg.5j-5jc2reag.ap27.bnc.salesforce.com
to me ▾

Hi, Sanath DM
Hope you are doing well, only one day left for the course completion

| Thanks a lot. | Thanks for the update. | Thanks for the mail. |

Create Work Flow Rules On Class/Batch Object

1.create work flow rule 2 days before valid to date send a reminder email to owner:

    a) from set up search for work flow rules, click on new rule select meeting object click next.

  b) enter rule name , in evaluation criteria select created, and any time it's edited to subsequently meet criteria, in rule criteria select formula evaluates to true.

    c) in formula section " VALID_TO__C - TODAY () = 2" click save.

    d) from work flow action select email alert.

    e) enter all mandatory details , select an email template, search for owner in recipient type and select the owner from the list click save

Make sure to activate the rules.
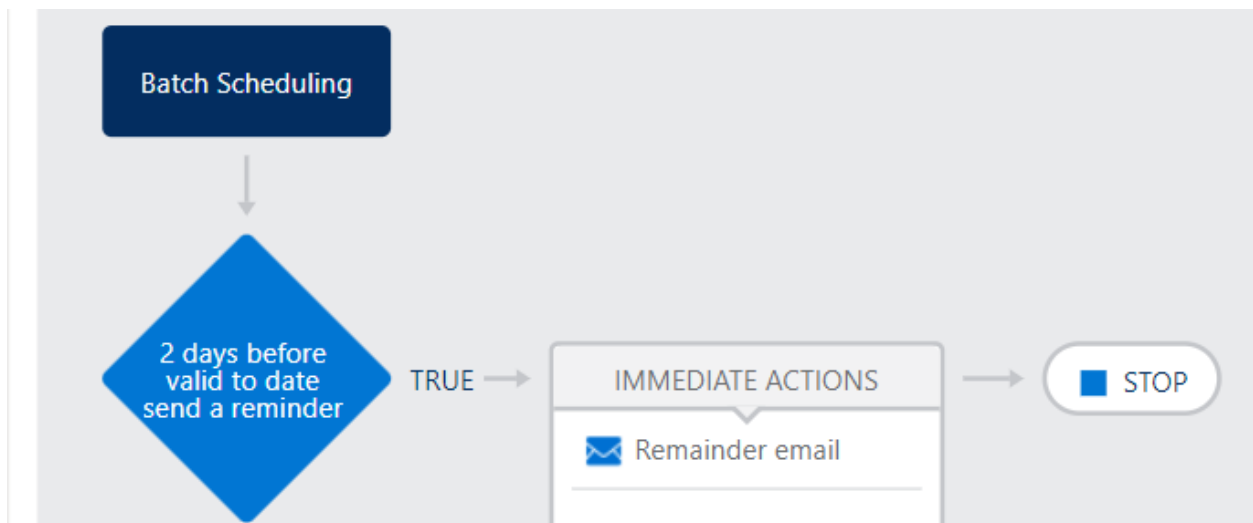
Working demo:
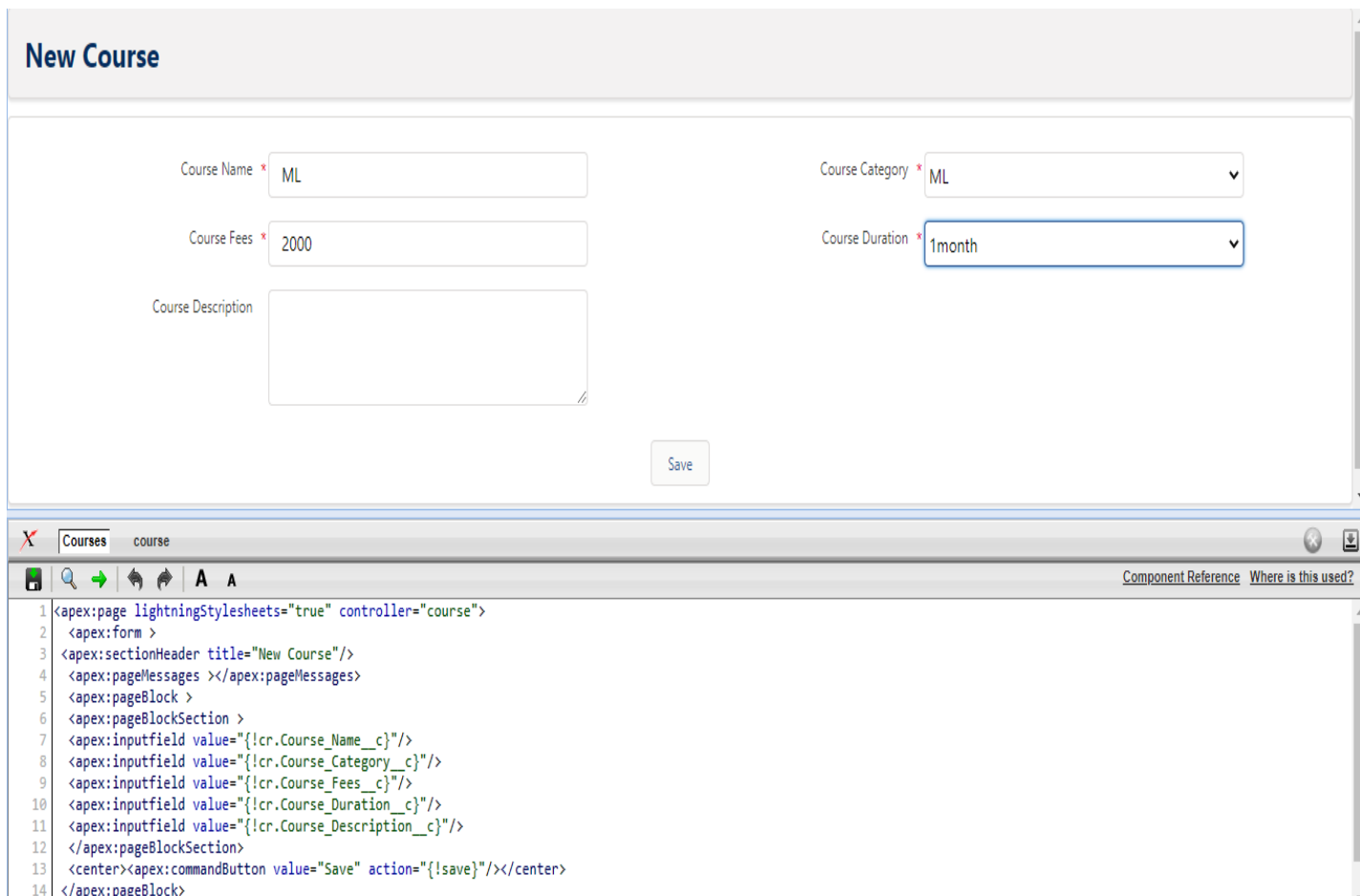
Creating Custom Pages Using Visualforce

Creating New Course Using Custom Controller:

New Course

Course Name * ML	Course Category * ML
Course Fees * 2000	Course Duration * 1month
Course Description	

Save

```
X   Courses  course                                              Component Reference  Where is this used?

1 <apex:page lightningStylesheets="true" controller="course">
2   <apex:form >
3   <apex:sectionHeader title="New Course"/>
4   <apex:pageMessages ></apex:pageMessages>
5   <apex:pageBlock >
6   <apex:pageBlockSection >
7   <apex:inputfield value="{!cr.Course_Name__c}"/>
8   <apex:inputfield value="{!cr.Course_Category__c}"/>
9   <apex:inputfield value="{!cr.Course_Fees__c}"/>
10  <apex:inputfield value="{!cr.Course_Duration__c}"/>
11  <apex:inputfield value="{!cr.Course_Description__c}"/>
12  </apex:pageBlockSection>
13  <center><apex:commandButton value="Save" action="{!save}"/></center>
14 </apex:pageBlock>
```

Create New Trainer Using Custom Controller:

New Trainer

Full Name *	Sanath DM		Email *	sanathdm81@gmail.com
PhoneNumber *	07676047839		Whatsapp Number *	(989) 876-5456
DateofBirth *	[1/9/2022]		Experience *	1year
LinkedIN Profile *	ABC		Expertise *	ML
Age				

Save

X | Trainer | trainer

```
1  <apex:page lightningStylesheets="true" controller="trainer">
2    <apex:form >
3    <apex:sectionHeader title="New Trainer"/>
4    <apex:pageMessages ></apex:pageMessages>
5    <apex:pageBlock >
6    <apex:pageBlockSection >
7    <apex:inputfield value="{!tr.Full_Name__c}" required="true"/>
8    <apex:inputfield value="{!tr.Email__c}" required="true"/>
9    <apex:inputfield value="{!tr.PhoneNumber__c}" required="true"/>
10   <apex:inputfield value="{!tr.Whatsapp_Number__c}"/>
11   <apex:inputfield value="{!tr.DateofBirth__c}" required="true"/>
12   <apex:inputfield value="{!tr.Experience__c}" required="true"/>
13   <apex:inputfield value="{!tr.LinkedIN_Profile__c}"/>
14   <apex:inputfield value="{!tr.Expertise__c}"/>
```

Component Reference   Where is this used?

Create New Student Using Standard Controller

New Student

First Name *	Sanath		Last Name *	DM
Email *	sanathdm81@gmail.com		PhoneNumber *	07676047839
Date Of Birth *	1/2/2002 [1/9/2022]		Whatsapp Number *	07676047839

Save

X | Students

```
3    <apex:sectionHeader title="New Student"/>
4      <apex:pageBlock >
5      <apex:pageBlockSection >
6        <apex:inputField value="{!Student__c.First_Name__c}"/>
7        <apex:inputField value="{!Student__c.Last_Name__c}" required="true"/>
8        <apex:inputField value="{!Student__c.Email__c}"/>
9        <apex:inputField value="{!Student__c.PhoneNumber__c}"/>
10       <apex:inputField value="{!Student__c.Date_Of_Birth__c}"/>
11       <apex:inputField value="{!Student__c.Whatsapp_Number__c}"/>
12     </apex:pageBlockSection>
13     <center><apex:commandButton value="Save" action="{!save}"/></center>
14     </apex:pageBlock>
15   </apex:form>
16 </apex:page>
```

Component Reference   Where is this used?

Create New Meeting Using Standard Controller


```
1  <apex:page lightningStylesheets="true" standardController="Meeting__c">
2      <apex:form >
3      <apex:sectionHeader title="New Meeting"/>
4          <apex:PageBlock >
5              <apex:PageBlockSection >
6                  <apex:inputField value="{!Meeting__c.Valid_From__c}"/>
7                  <apex:inputField value="{!Meeting__c.Valid_To__c}"/>
8                  <apex:inputField value="{!Meeting__c.Meeting_Link__c}"/>
9                  <apex:inputField value="{!Meeting__c.Active__c}"/>
10             </apex:PageBlockSection>
11             <center><apex:commandButton value="Save" action="{!save}"/></center>
12         </apex:PageBlock>
13     </apex:form>
14 </apex:page>
```

Create New Batch Using Standard Controller


```
3          <apex:sectionHeader title="New Batch"/>
4              <apex:pageBlock >
5                  <apex:pageBlockSection >
6                      <apex:inputField value="{!Class_Scheduling__c.Batch_Type__c}"/>
7                      <apex:inputField value="{!Class_Scheduling__c.Start_Date__c}"/>
8                      <apex:inputField value="{!Class_Scheduling__c.End_Date__c}"/>
9                      <apex:inputField value="{!Class_Scheduling__c.Course_Id__c}"/>
10                     <apex:inputField value="{!Class_Scheduling__c.Meeting_id__c}"/>
11                     <apex:inputField value="{!Class_Scheduling__c.Trainer_id__c}"/>
12                     <apex:inputField value="{!Class_Scheduling__c.Status__c}"/>
13                 </apex:pageBlockSection>
14                 <center><apex:commandButton value="Save" action="{!save}"/></center>
15             </apex:pageBlock>
16         </apex:form>
17 </apex:page>
```

Trigger On Trainer Object

```
 1 trigger age on Trainer__c (before insert,before update)
 2 {
 3   for(Trainer__c tr :trigger.new)
 4   {
 5      date dob = tr.DateofBirth__c;
 6      Integer age = Integer.valueOf(dob.daysBetween(Date.Today()))/365;
 7      if(age<25){
 8         tr.DateofBirth__c.adderror('Age should be more than 25');
 9      }
10   }
11
12 }
```

WORKING DEMO:

Trigger On Student Object

```
Apex Trigger   Version Settings   Trace Flags

 1 trigger ageCheck on Student__c (before insert)
 2 {
 3
 4    for(Student__c std :trigger.new)
 5    {
 6       date dob = std.Date_of_Birth__c;
 7       Integer age = Integer.valueOf(dob.daysBetween(Date.Today()))/365;
 8       if(age<25){
 9         std.Date_of_Birth__c.adderror('Age should be more than 16');
10       }
11    }
12
13
14 }
```

WORKING DEMO:

sanathdm81@gmail.com

PhoneNumber

07676047839

*Whatsapp Number

1234567891

*DateofBirth

11/11/2021

Age should be more than 25

Experience

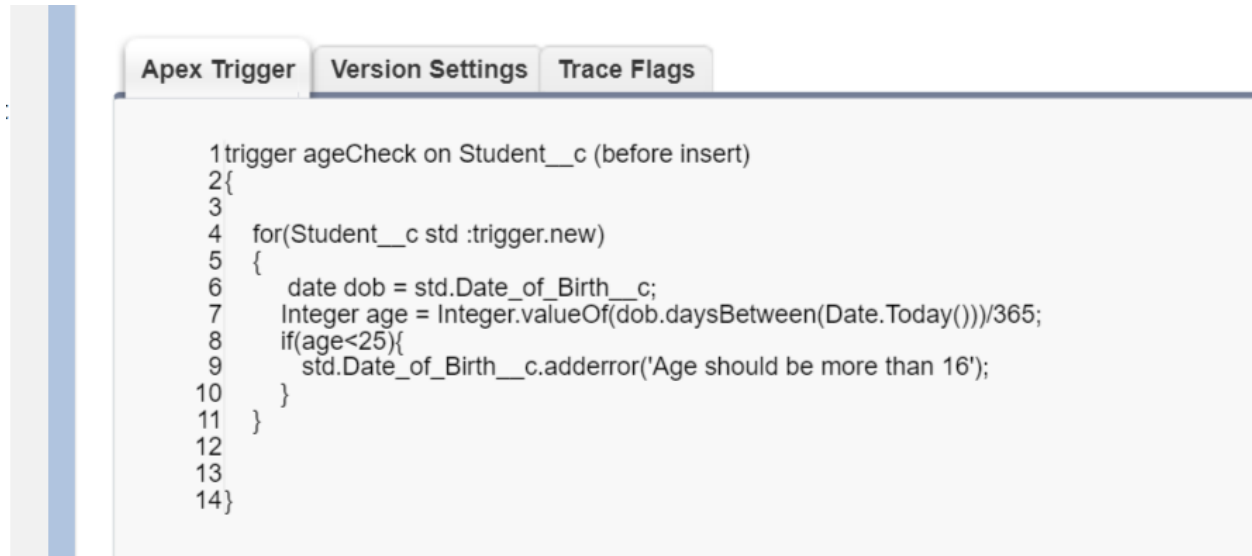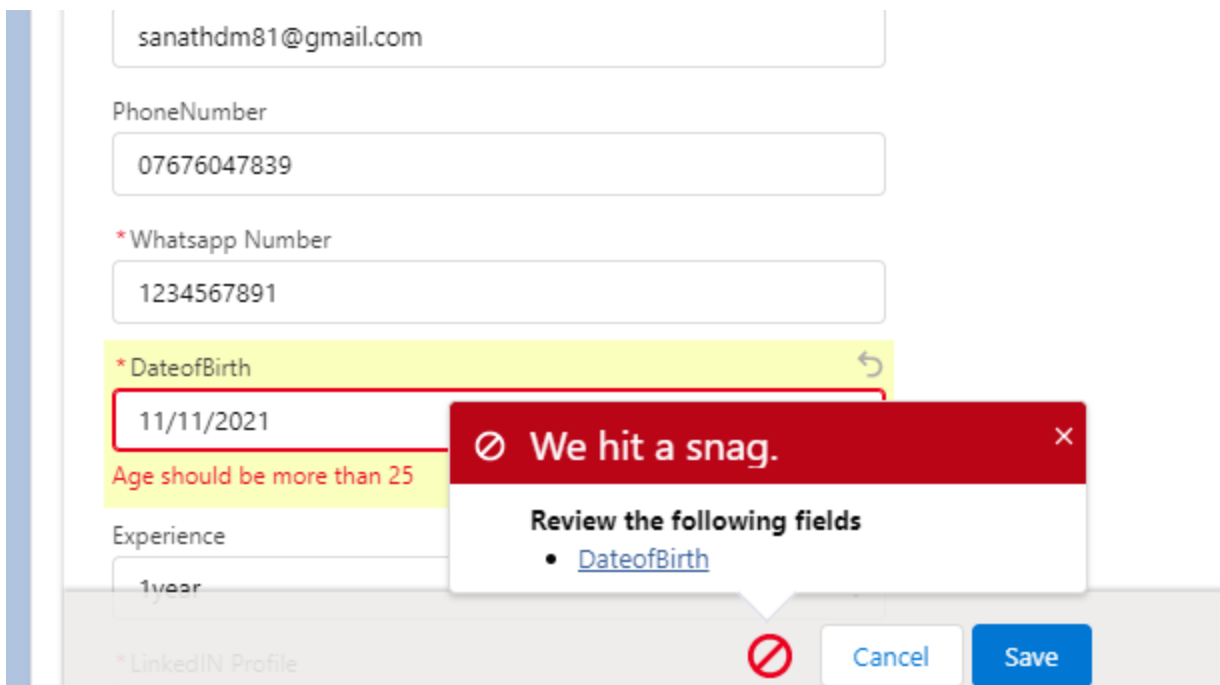1year

*LinkedIN Profile

⊘ **We hit a snag.**   ✕

Review the following fields
• DateofBirth

Cancel   Save

Trigger On Meeting Object

Apex Trigger | Version Settings | Trace Flags

```
1 trigger Datecheck on Meeting__c (before insert)
2 {
3   for(Meeting__c mt :trigger.new)
4   {
5     if(mt.Valid_From__c<Date.today() )
6     {
7       mt.Valid_From__c.adderror('Valid From Date Should Be Greater Than Today');
8     }
9     if(mt.Valid_To__c < mt.Valid_From__c)
10    {
11      mt.Valid_To__c.adderror('Valid To Date shouldbe greater than valid from date');
12    }
13
14    Integer noOfDays = (mt.Valid_From__c). daysBetween(mt.Valid_To__c);
15    if(noOfDays < 14)
16    {
17      mt.Valid_From__c.adderror('Minimum 14 days difference  should be present between one meeting');
18    }
19  }
20
21
22 }
```

WORKING DEMO:

New Meeting

Information

Meeting Id

Owner
Sanath DM

*Valid From

1/10/2022

*Valid To

1/20/2022

Active

*Meeting Link

ABC

⊘ **We hit a snag.**

Review the errors on this page.
- 14_diff_btwn_valid_from_and_valid_to

⊘ Cancel   Save & New   Save