

Day 1: 03/01/2022, Monday

Topic: Create your salesforce developer org to get started

Milestone / Activities: Creating Developer Account

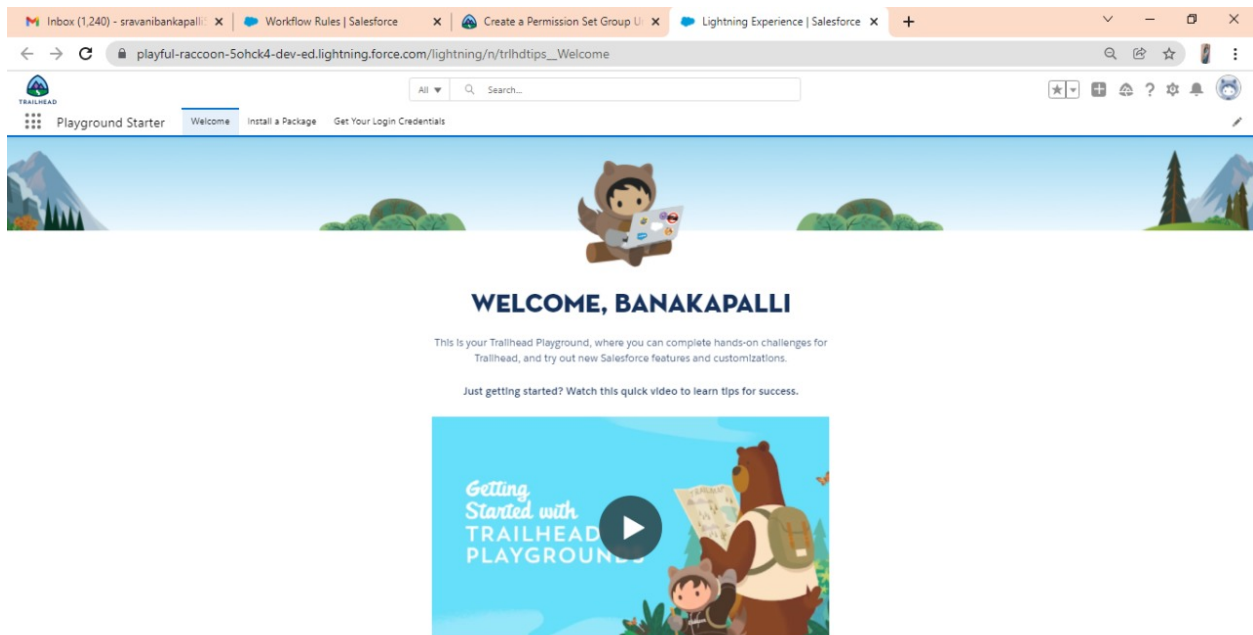
Account Activation

Login to your Salesforce account

Detailed Description:

First sign up the developers.salesforce.com with all the required information, after clicking the sign up button I will get an email for activating the developer account, then I verify the account, then finally I login to the salesforce account

Upload the Screenshot of Milestone / Activity:



Day 2: 04/01/2022, Tuesday

Topic: Custom Object creation

Milestone / Activities: Create The Custom Objects For The Application

Create Custom Fields On Course Object

Create Custom Fields On Trainer Object

Create Custom Fields On Student Object

Create Custom Fields On Meeting Object

Create Custom Fields On Batch Object

Detailed Description: After login to the salesforce account create a custom objects on object manager. The Custom Objects are Courses, Trainer, Student, Meeting and Batch/Class Scheduling.

After Creating a Course Object the following are the fields we are created. Course ID using the data type 'Auto Number', 'Course Name' using the data type 'Text', 'Course Duration' using data type 'Picklist', 'Course Fees' using data type 'Currency', 'Course Description' using datatype 'Text', 'Course Category' using data type 'Picklist' and finally 'Course Trainer' using 'Master Detail Relationship'.

Upload the Screenshot of Milestone / Activity: (Create Custom Fields On Course Object)

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Course Category	Course_Category__c	Picklist		
Course Description	Course_Description__c	Long Text Area(32768)		
Course Duration	Course_Duration__c	Picklist		
Course Fees	Course_Fees__c	Currency(7, 2)		
Course ID	Name	Auto Number		✓
Course Name	Course_Name__c	Text(80)		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Trainer	Trainer__c	Master-Detail(Trainer)		✓

After Creating a Trainer Object the following are the fields we are created. Trainer ID, Full Name, Email, Phone Number, Whatsapp Number, Date of Birth, Age, Experience, LinkedIN Profile and Expertise.

Upload the Screenshot of Milestone / Activity: (Create Custom Fields On Trainer Object)

The screenshot shows the Salesforce Setup interface for the 'Trainer' 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, Search Layouts for Salesforce Classic, Restriction Rules, Triggers, and Validation Rules. The main content area is titled 'Fields & Relationships' and shows a list of 13 fields. The fields are sorted by Field Label. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are: Age, Created By, DateofBirth, Email, Experience, Expertise, Full Name, Last Modified By, LinkedIN Profile, Owner, PhoneNumber, Trainer ID, and Whatsapp Number.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Age	Age__c	Formula (Number)		
Created By	CreatedById	Lookup(User)		
DateofBirth	DateofBirth__c	Date		
Email	Email__c	Email		
Experience	Experience__c	Picklist		
Expertise	Expertise__c	Text(80)		
Full Name	FullName__c	Text(50)		
Last Modified By	LastModifiedById	Lookup(User)		
LinkedIN Profile	LinkedIN_Profile__c	URL(255)		
Owner	OwnerId	Lookup(User/Group)		✓
PhoneNumber	PhoneNumber__c	Phone		
Trainer ID	Name	Auto Number		✓
Whatsapp Number	Whatsapp_Number__c	Phone		

The following are the fields that are created on Student Object that are Student ID, First Name, Last Name, Email, Phone Number, Date of Birth, Whatsapp Number, Enrollment Date, Student and Enrollment.

Upload the Screenshot of Milestone / Activity: (Create Custom Fields On Student Object)

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Age	Age__c	Formula (Number)		
Batch	Batch__c	Master-Detail(Batch)		✓
Created By	CreatedById	Lookup(User)		
Date Of Birth	Date_Of_Birth__c	Date		
Email	Email__c	Email		
Enrollment Date	Enrollment_Date__c	Formula (Date)		
First Name	First_Name__c	Text(80)		
Last Modified By	LastModifiedById	Lookup(User)		
Last Name	Last_Name__c	Text(50)		
PhoneNumber	PhoneNumber__c	Phone		
Student ID	Name	Auto Number		✓
Whatsapp Number	Whatsapp_Number__c	Phone		

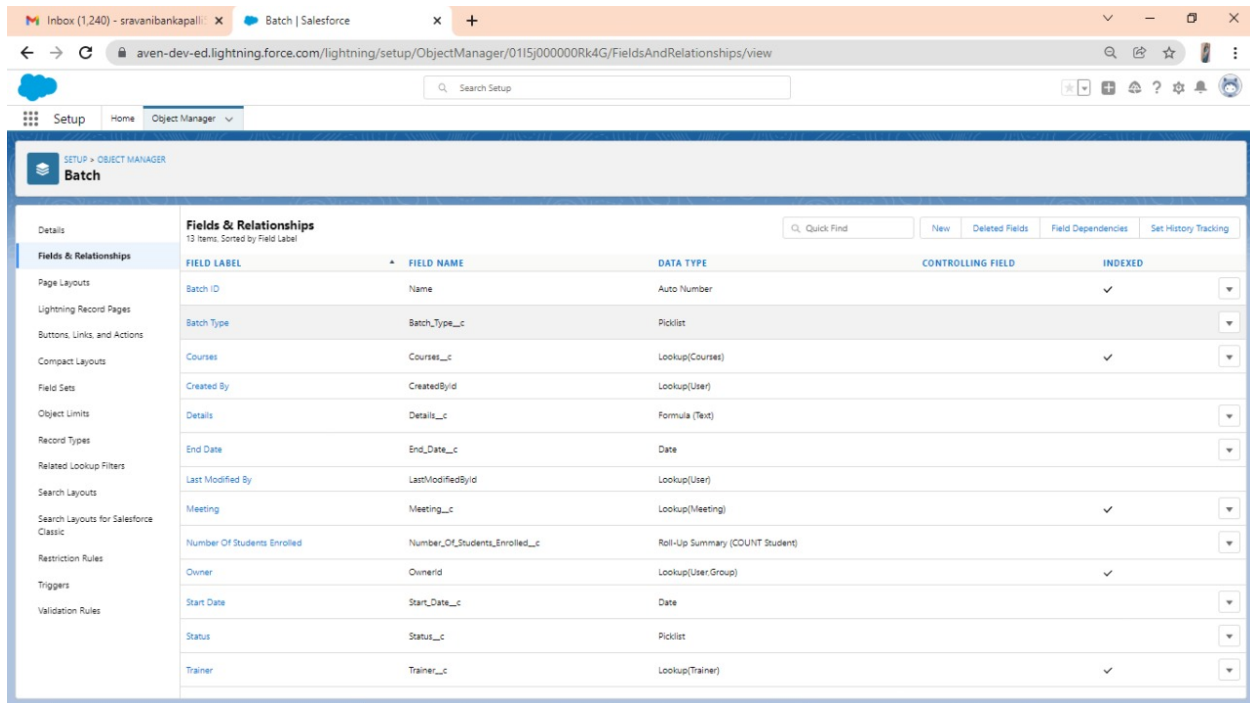
The following are the fields we are created on Meeting Object that are Meeting ID, Valid From, Valid To, Active and Meeting link.

Upload the Screenshot of Milestone / Activity: (Create Custom Fields On Meeting Object)

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Active	Active__c	Checkbox		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Meeting ID	Name	Auto Number		✓
Meeting Link	Meeting_Link__c	URL(255)		
Owner	OwnerId	Lookup(User:Group)		✓
Valid From	Valid_From__c	Date		
Valid To	Valid_To__c	Date		

The following are the fields we are created on Batch Object that are Batch ID, Batch Type, Start Date, End Date, Course ID, Meeting ID, Trainer ID, Status, Number Of Students Enrolled and Details.

Upload the Screenshot of Milestone / Activity: (Create Custom Fields On Batch Object)



FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Batch ID	Name	Auto Number		✓
Batch Type	Batch_Type__c	Picklist		
Courses	Course__c	Lookup(Courses)		✓
Created By	CreatedById	Lookup(User)		
Details	Details__c	Formula (Text)		
End Date	End_Date__c	Date		
Last Modified By	LastModifiedById	Lookup(User)		
Meeting	Meeting__c	Lookup(Meeting)		✓
Number Of Students Enrolled	Number_Of_Students_Enrolled__c	Roll-Up Summary (COUNT Student)		
Owner	OwnerId	Lookup(User/Group)		✓
Start Date	Start_Date__c	Date		
Status	Status__c	Picklist		
Trainer	Trainer__c	Lookup(Trainer)		✓

Day 3: 05/01/2022, Wednesday

Topic: Create Validation Rules

Milestone / Activities: Create Validation Rules on Course Object

Create Validation Rules on Trainer Object

Create Validation Rules on Student Object

Create Validation Rules on Meeting Object

Detailed Description:

From Object Manager find out the Course Object and create a validation rules on Course Object. The first validation rule are Course Fees cannot be negative by using the formula $\text{Course_Fees_c} < 0$. The second validation rule are Course Fees should be less than or equal to 3000 by using the formula $\text{Course_Fees_c} \leq 3000$.

Upload the Screenshot of Milestone / Activity: (Create Validation Rules on Course Object)

The screenshot shows the Salesforce Setup interface for the 'Courses' 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, Search Layouts for Salesforce Classic, Restriction Rules, Triggers, and Validation Rules. The main content area is titled 'Validation Rules' and shows a table with 2 items, sorted by Rule Name. The table has columns for Rule Name, Error Location, Error Message, Active status, and Modified By. Two validation rules are listed: 'one' and 'two', both with an error location of 'Top of Page' and an error message of 'less' and 'more' respectively. Both rules are active and were modified by 'Bankapalli Sravani' on 1/25/2022 at 9:44 AM.

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
one	Top of Page	less	✓	Bankapalli Sravani, 1/25/2022, 9:44 AM
two	Top of Page	more	✓	Bankapalli Sravani, 1/25/2022, 9:44 AM

Create a validation rules on Trainer Object. The validation rules are FullName, Phone Number, Date of Birth and Experience fields should not be blank, age should not be less than 25 years and Phone Number and Whatsapp Number should have min 10 digits and max 15 digits.

Upload the Screenshot of Milestone / Activity: (Create Validation Rules on Trainer Object)

The screenshot shows the Salesforce Setup interface for the 'Trainer' 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, Search Layouts for Salesforce Classic, Restriction Rules, Triggers, and Validation Rules. The main content area displays the 'Validation Rules' section for the 'Trainer' object, showing 3 items sorted by Rule Name. The table lists three validation rules:

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
one	Top of Page	noo	✓	Bankapali Sravani, 1/25/2022, 9:48 AM
three	Top of Page	error	✓	Bankapali Sravani, 1/25/2022, 9:52 AM
two	Top of Page	error	✓	Bankapali Sravani, 1/25/2022, 9:48 AM

Create a validation rules on Student Object. The validation rules are Last Name should not be blank, Minimum 16 years of age and PhoneNumber and Whatsapp Number should have minimum 10 digit.

Upload the Screenshot of Milestone / Activity: (Create Validation Rules on Student Object)

The screenshot shows the Salesforce Setup interface for the 'Student' 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, Search Layouts for Salesforce Classic, Restriction Rules, Triggers, and Validation Rules. The main content area displays the 'Validation Rules' section for the 'Student' object, showing 3 items sorted by Rule Name. The table lists three validation rules:

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
one	Top of Page	error	✓	Bankapali Sravani, 1/25/2022, 9:57 AM
three	Top of Page	error	✓	Bankapali Sravani, 1/25/2022, 9:59 AM
two	Top of Page	error	✓	Bankapali Sravani, 1/25/2022, 9:58 AM

Create a Validation rules on Meeting Object. The validation rules are Valid from should not be less than current date, Valid to cannot be less than valid from and minimum 14 days difference in between valid from and valid to.

Upload the Screenshot of Milestone / Activity: (Create Validation Rules on Meeting Object)

The screenshot shows the Salesforce Setup interface for the Meeting object. The left sidebar contains a navigation menu with the following items: 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, and Validation Rules (which is currently selected). The main content area is titled 'Validation Rules' and shows a list of 3 items, sorted by Rule Name. The table contains the following data:

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
one	Top of Page	error	✓	Bankapalli Sravan, 1/25/2022, 10:01 AM
three	Top of Page	error	✓	Bankapalli Sravan, 1/25/2022, 10:01 AM
two	Top of Page	error	✓	Bankapalli Sravan, 1/25/2022, 10:01 AM

Day 5: 07/01/2022, Friday

Topic: Process Automation

Milestone / Activities: Creating Work Flow Rules On Meeting Object

Creating Work Flow Rules On Class/Batch Object

Detailed Description:

Search For Work Flow Rules on Object Manager. Create a Work Flow Rules on Meeting Object and enter a Rule name and in the formula section TODAY() - Valid_to__c = 1 and select active field in workflow action.

Create another Work Flow on Meeting Object and enter a rule name and in formula evaluates enter TODAY() - Valid_to__c = 1 and enter the details in Email Template in workflow action. Finally active the workflow actions.

Upload the Screenshot of Milestone / Activity: (Creating Work Flow Rules On Meeting Object)

The screenshot displays the Salesforce Setup interface for configuring Workflow Rules. The left sidebar shows the navigation menu with 'Workflow Rules' selected under 'Process Automation'. The main content area is titled 'Workflow Rules' and shows a rule named 'new1' for the 'Meeting' object. The rule is active, and its description is 'Evaluate the rule when a record is created, and any time it's edited to subsequently meet criteria'. The rule criteria is 'TODAY() - Valid_to__c = 1'. The rule was created by 'Bhargavi Savani' on 1/25/2022 at 10:04 AM and modified by the same user on 1/25/2022 at 10:08 AM. The 'Workflow Actions' section shows 'Immediate Workflow Actions' with a 'Field Update' action. A warning message states: 'You cannot add new time triggers to an active rule. Deactivate this rule.' The 'Time-Dependent Workflow Actions' section is currently empty.

Workflow Rule Detail	
Rule Name	new1
Active	<input checked="" type="checkbox"/>
Description	Evaluate the rule when a record is created, and any time it's edited to subsequently meet criteria
Rule Criteria	TODAY() - Valid_to__c = 1
Created By	Bhargavi Savani
Created Date	1/25/2022, 10:04 AM
Modified By	Bhargavi Savani
Modified Date	1/25/2022, 10:08 AM

Workflow Actions	
Immediate Workflow Actions	
Type	Description
Field Update	Field
Time-Dependent Workflow Actions	
You cannot add new time triggers to an active rule. Deactivate this rule.	

Inbox (1,240) - sravanibankapalli Workflow Rules | Salesforce

aven-dev-ed.lightning.force.com/lightning/setup/WorkflowRules/page?address=%2F01Q5j000000gaKX&nodeId=WorkflowRules

Setup Home Object Manager

workflow

Process Automation

- Workflow Actions
 - Email Alerts
 - Field Updates
 - Outbound Messages
 - Send Actions
 - Tasks
- Workflow Rules
- Environments
 - Monitoring
 - Time-Based Workflow

Didn't find what you're looking for? Try using Global Search.

Workflow Rules

Workflow Rule new3

Workflow Rule Detail

Rule Name	new3	Object	Meeting
Active	<input checked="" type="checkbox"/>	Evaluation Criteria	Evaluate the rule when a record is created, and any time it's edited to subsequently meet criteria
Description			
Rule Criteria	Valid_To__c - TODAY () = 2		
Created By	Bankapalli, Sravan	Modified By	Bankapalli, Sravan
	1/25/2022, 10:09 AM		1/25/2022, 10:10 AM

Workflow Actions

Immediate Workflow Actions

Type	Description
Email Alert	new3

Time-Dependent Workflow Actions [See an example](#)

You cannot add new time triggers to an active rule. [Deactivate This Rule](#)

Upload the Screenshot of Milestone / Activity: (Creating Work Flow Rules On Class/Batch Object)

Inbox (1,240) - sravanibankapalli Workflow Rules | Salesforce

aven-dev-ed.lightning.force.com/lightning/setup/WorkflowRules/page?address=%2F01Q5j000000gaKS&nodeId=WorkflowRules

Setup Home Object Manager

workflow

Process Automation

- Workflow Actions
 - Email Alerts
 - Field Updates
 - Outbound Messages
 - Send Actions
 - Tasks
- Workflow Rules
- Environments
 - Monitoring
 - Time-Based Workflow

Didn't find what you're looking for? Try using Global Search.

Workflow Rules

Workflow Rule rule2

Workflow Rule Detail

Rule Name	rule2	Object	Meeting
Active	<input checked="" type="checkbox"/>	Evaluation Criteria	Evaluate the rule when a record is created, and any time it's edited to subsequently meet criteria
Description			
Rule Criteria	Valid_To__c - TODAY () = 1		
Created By	Bankapalli, Sravan	Modified By	Bankapalli, Sravan
	1/25/2022, 10:08 AM		1/25/2022, 10:07 AM

Workflow Actions

Immediate Workflow Actions

Type	Description
Email Alert	new3

Time-Dependent Workflow Actions [See an example](#)

You cannot add new time triggers to an active rule. [Deactivate This Rule](#)

Day 6: 08/01/2022, Saturday

Topic: Creating Custom Pages Using VisualForce

Milestone / Activities: Creating New Course Using Custom Controller

Create New Trainer Using Custom Controller

Create New Student Using Standard Controller

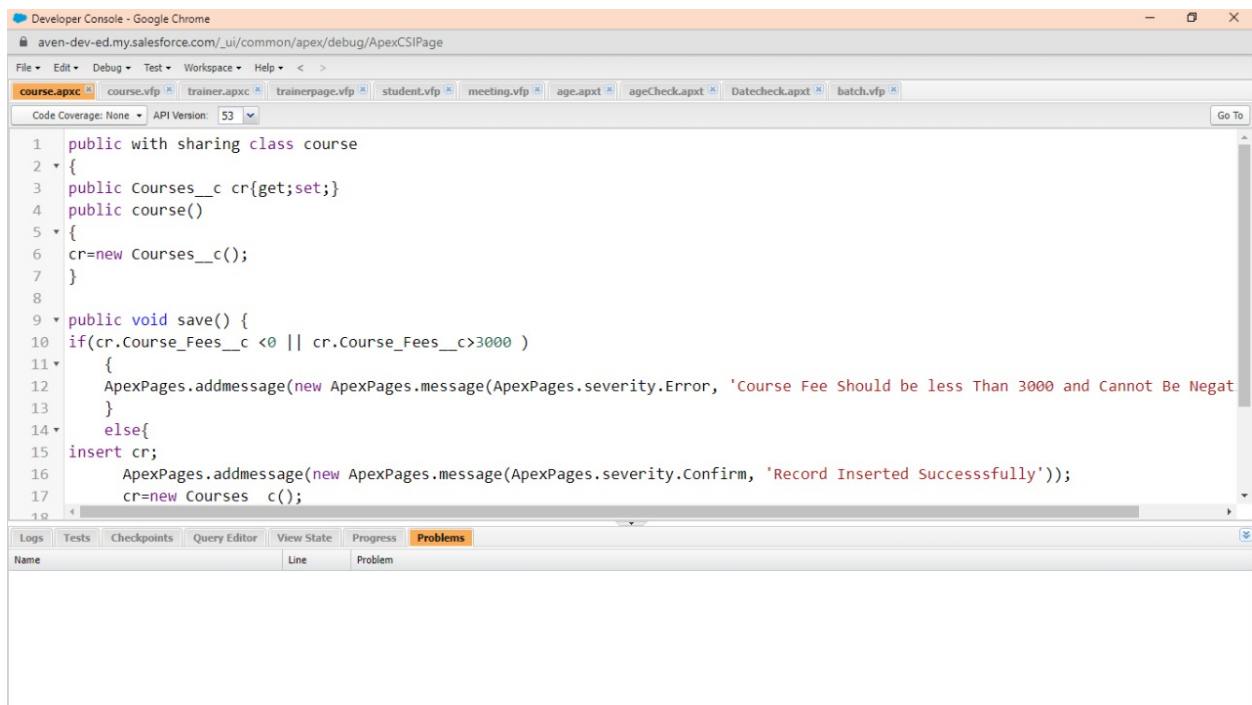
Create New Meeting Using Standard Controller

Create New Batch Using Standard Controller

Detailed Description:

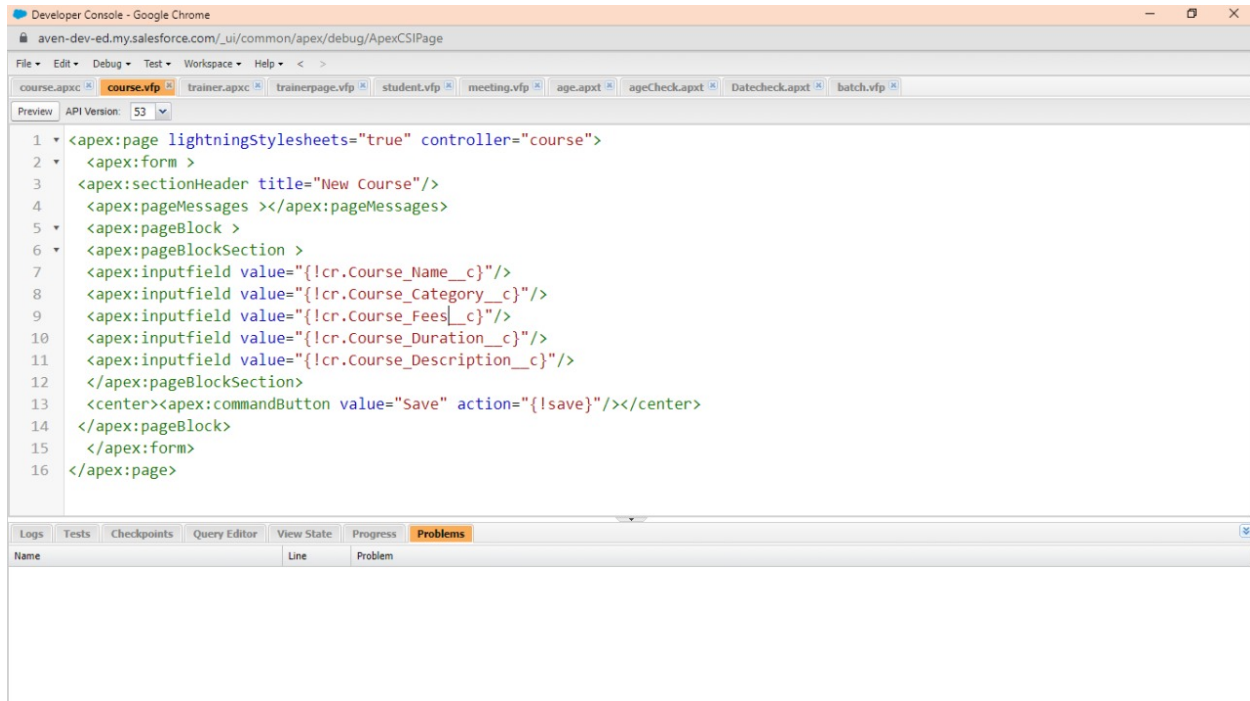
Open Developer Console and select File and then select new Visualforce page and paste the Course Visualforce code given in the task of "Creating New Course Using Custom Controller", and then select new apex class and paste the Course Controller code.

Upload the Screenshot of Milestone / Activity: (Create New Course Using Custom Controller)



The screenshot shows the Salesforce Developer Console with the Apex class 'course' open. The class is a public with sharing class that implements a custom controller for the 'course' object. It includes a 'save()' method that checks if the course fees are less than 3000 and not negative. If the fees are valid, it inserts the course and displays a success message. If the fees are invalid, it displays an error message.

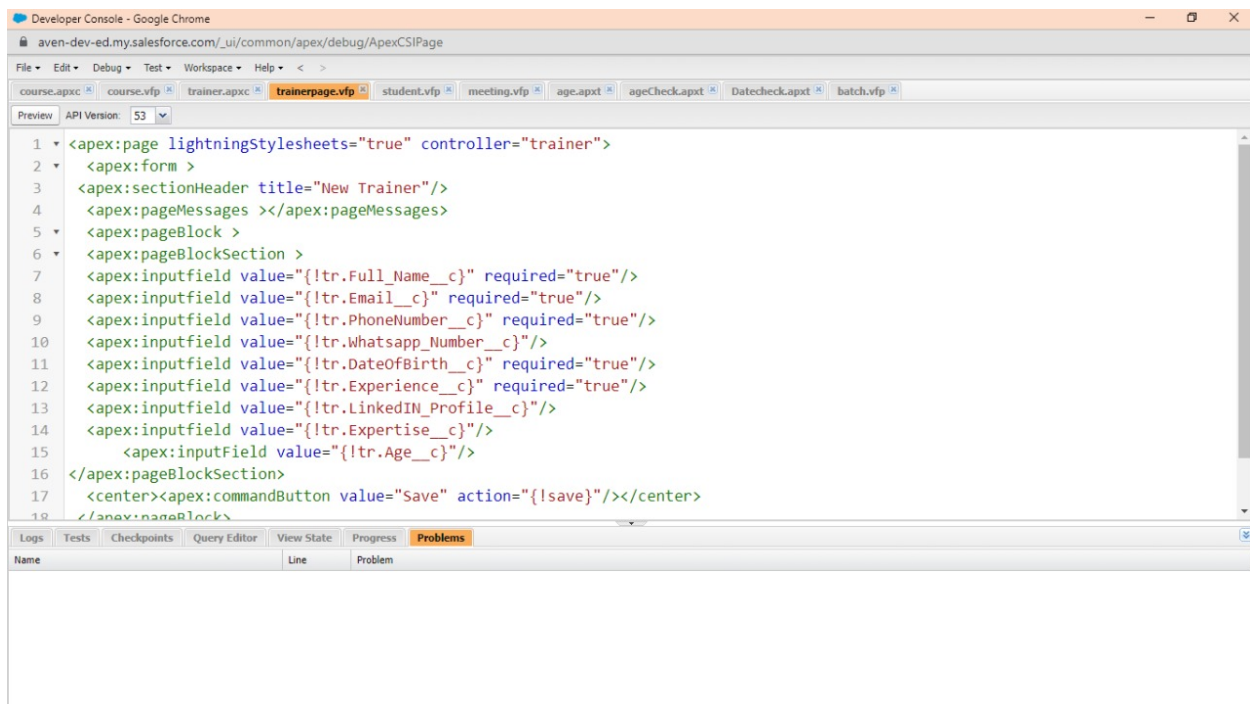
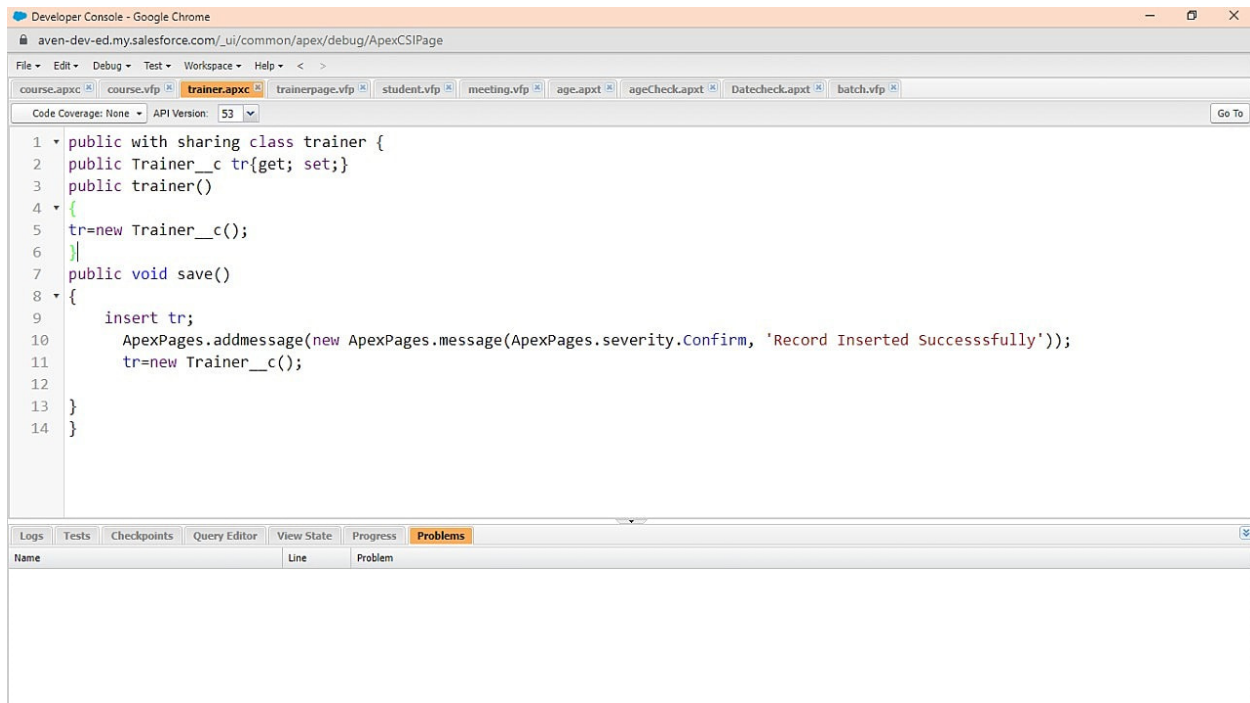
```
1 public with sharing class course
2 {
3     public Courses__c cr{get;set;}
4     public course()
5     {
6         cr=new Courses__c();
7     }
8
9     public void save() {
10        if(cr.Course_Fees__c < 0 || cr.Course_Fees__c > 3000 )
11        {
12            ApexPages.addmessage(new ApexPages.message(ApexPages.severity.Error, 'Course Fee Should be less Than 3000 and Cannot Be Negat
13        )
14        }
15        else{
16            insert cr;
17            ApexPages.addmessage(new ApexPages.message(ApexPages.severity.Confirm, 'Record Inserted Successsfully'));
18            cr=new Courses__c();
19        }
20    }
```



```
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>
15  </apex:form>
16</apex:page>
```

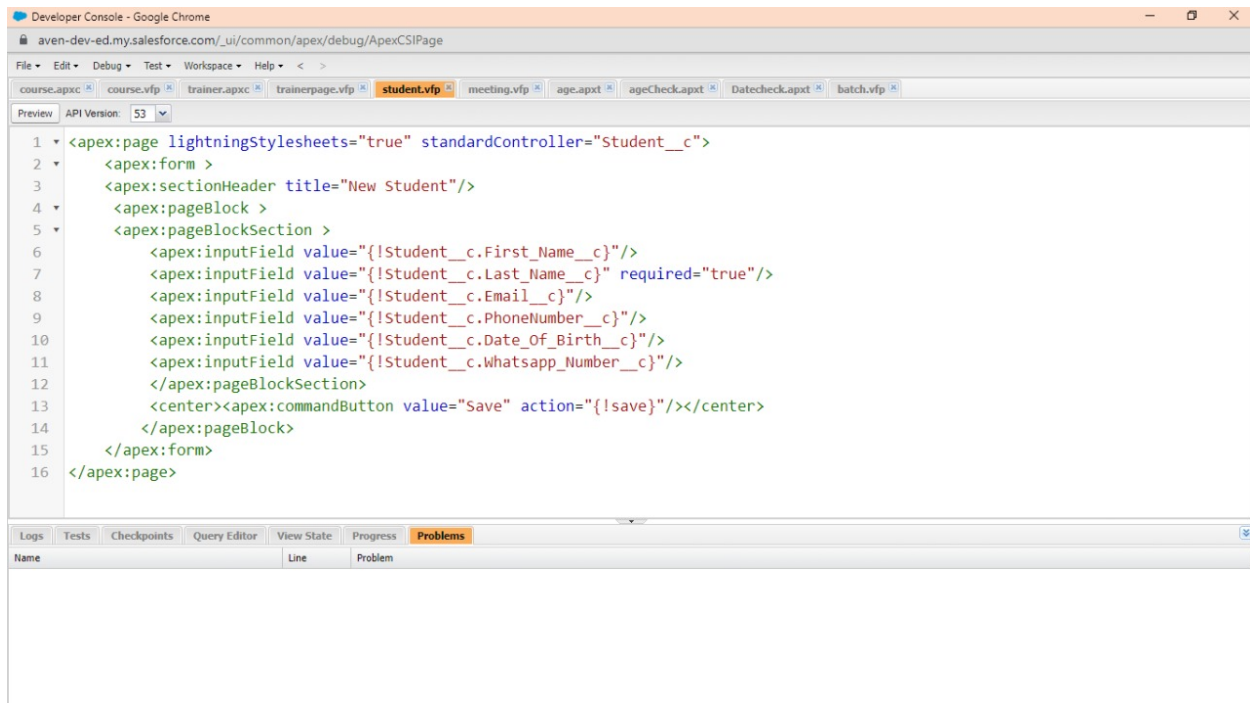
From File and then select new Visualforce page and paste the Trainer Visualforce code given in the task of "Creating New Trainer Using Custom Controller", and then select new apex class and paste the Trainer Controller code.

Upload the Screenshot of Milestone / Activity: (Create New Trainer Using Custom Controller)



From developer console create a new VisualForce page and paste the Student Visualforce code in the visualforce page.

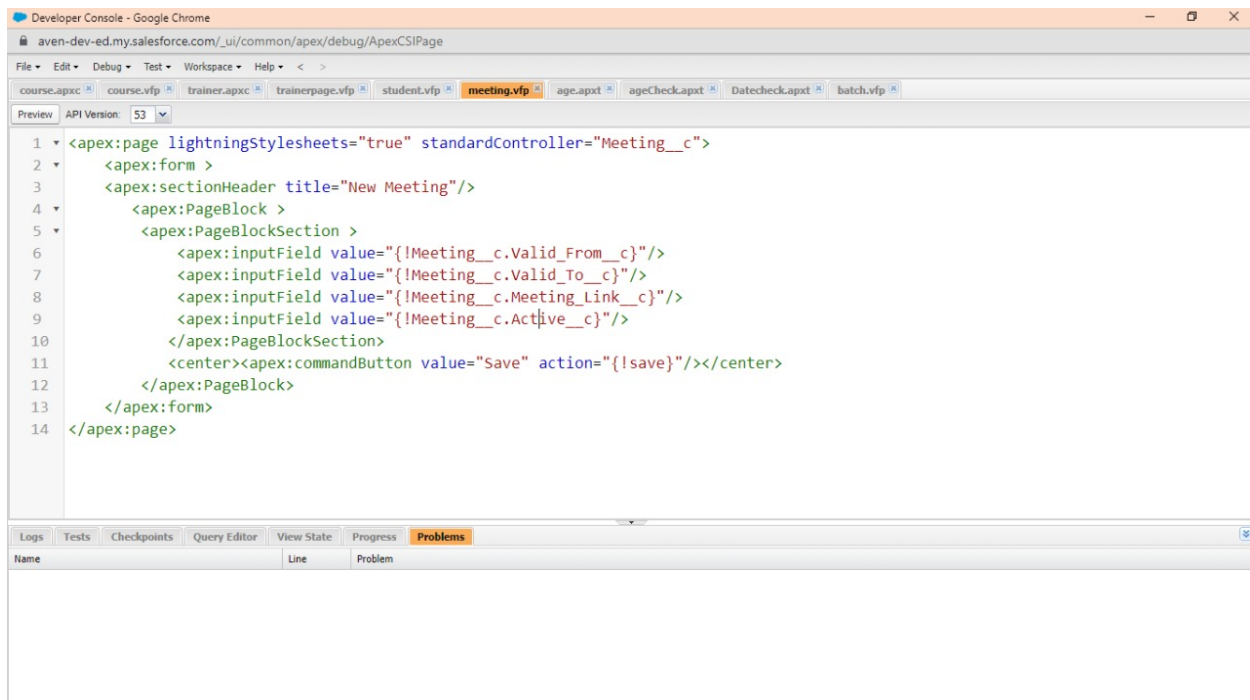
Upload the Screenshot of Milestone / Activity: (Create New Student Using Standard Controller)



The screenshot shows the Salesforce Developer Console with the ApexCSIPage for 'student.vfp' open. The code is as follows:

```
1 <apex:page lightningStylesheets="true" standardController="Student__c">
2   <apex:form >
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>
```

Upload the Screenshot of Milestone / Activity: (Create New Meeting Using Standard Controller)

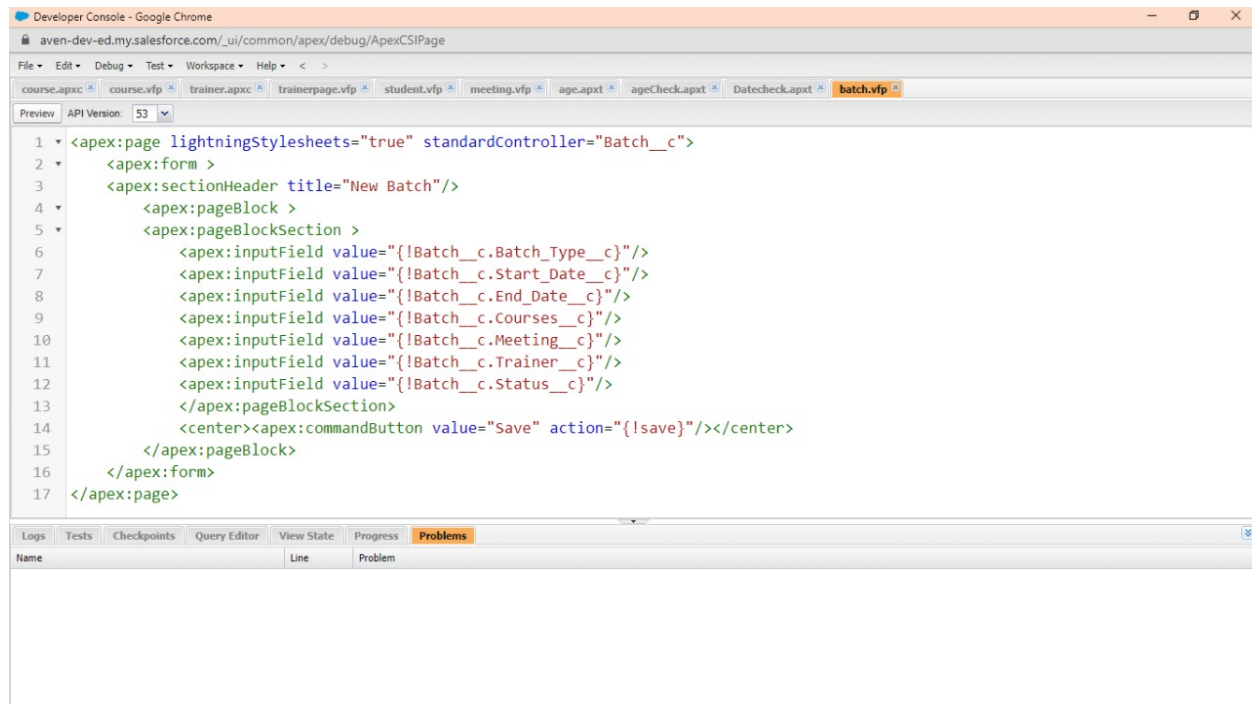


The screenshot shows the Salesforce Developer Console with the ApexCSIPage for 'meeting.vfp' open. The code is as follows:

```
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>
```

From developer console create a new VisualForce page and paste the Batch Visualforce code in the visualforce page.

Upload the Screenshot of Milestone / Activity: (Create New Batch Using Standard Controller)



The screenshot shows the Salesforce Developer Console with the Apex code for a new batch creation page. The code is as follows:

```
1 <apex:page lightningStyleSheets="true" standardController="Batch__c">
2   <apex:form >
3     <apex:sectionHeader title="New Batch"/>
4     <apex:pageBlock >
5       <apex:pageBlockSection >
6         <apex:inputField value="{!Batch__c.Batch_Type__c}"/>
7         <apex:inputField value="{!Batch__c.Start_Date__c}"/>
8         <apex:inputField value="{!Batch__c.End_Date__c}"/>
9         <apex:inputField value="{!Batch__c.Courses__c}"/>
10        <apex:inputField value="{!Batch__c.Meeting__c}"/>
11        <apex:inputField value="{!Batch__c.Trainer__c}"/>
12        <apex:inputField value="{!Batch__c.Status__c}"/>
13      </apex:pageBlockSection>
14      <center><apex:commandButton value="Save" action="{!save}"/></center>
15    </apex:pageBlock>
16  </apex:form>
17 </apex:page>
```

Day 9: 12/01/2022, Wednesday

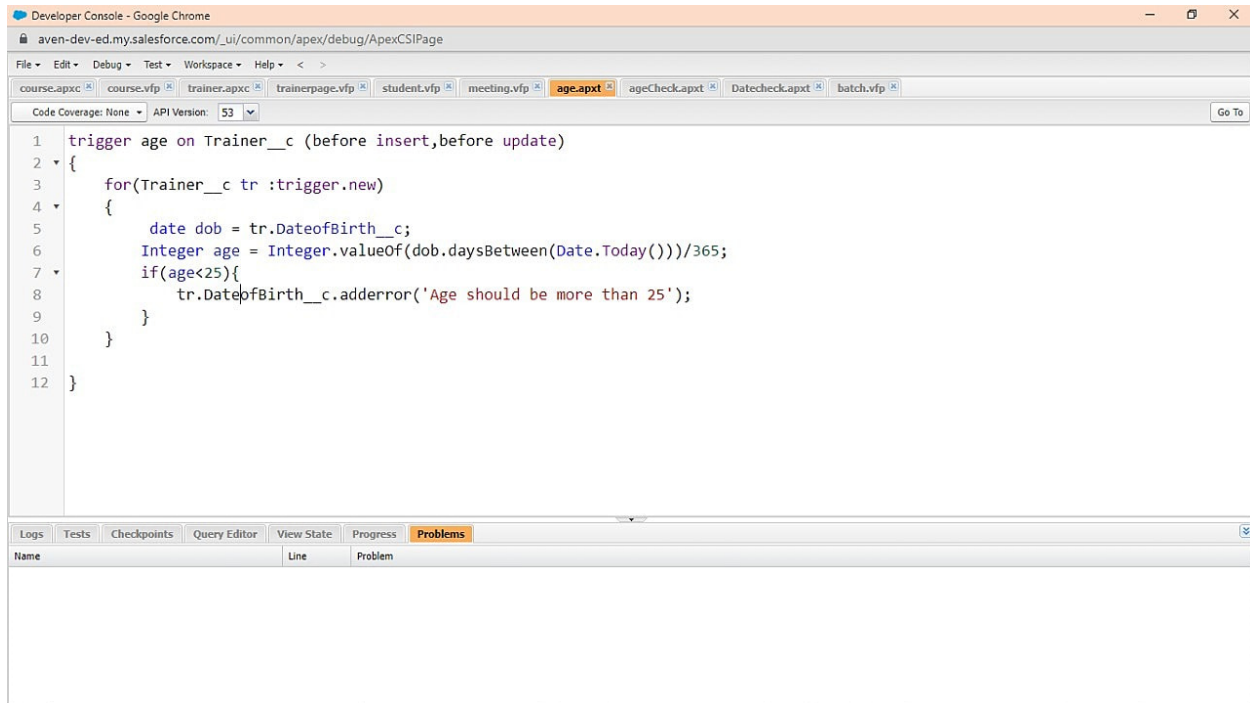
Topic: Triggers

Milestone / Activities: Trigger On Trainer Object
Trigger On Student Object
Trigger On Meeting Object

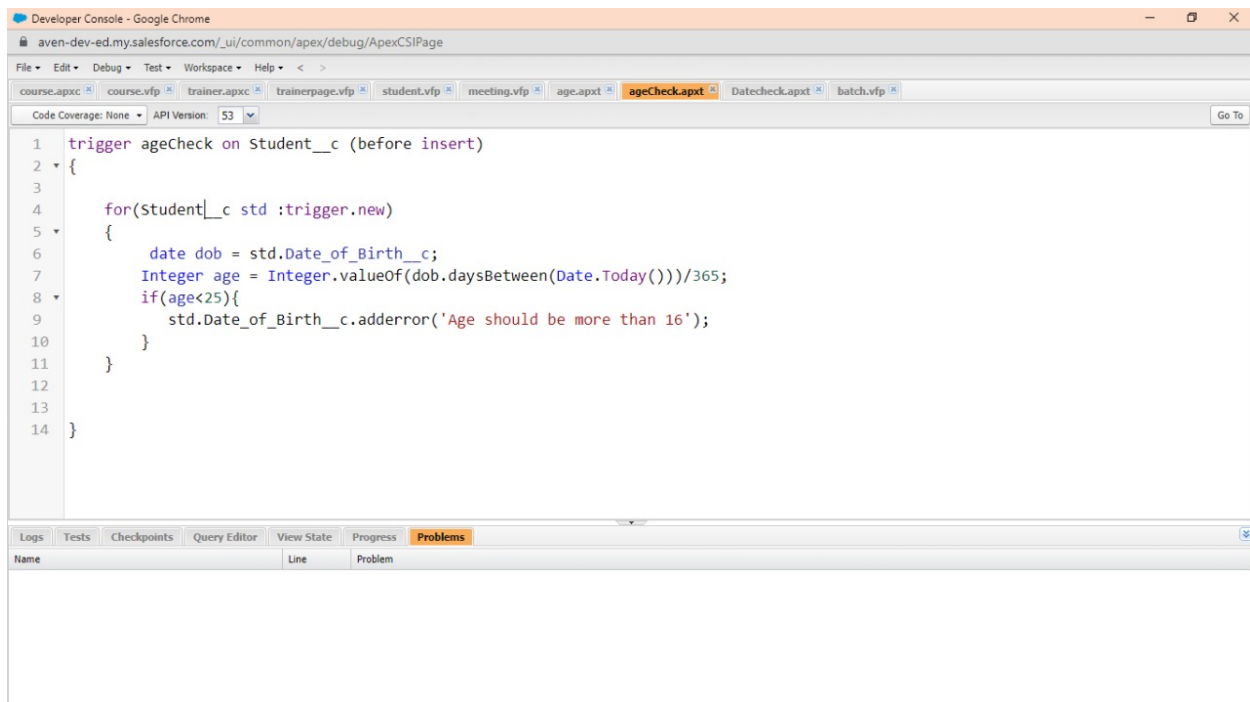
Detailed Description:

Create New Apex Triggers in Developer Console of Trainer, Student and Meeting. Paste the Trigger of Trainer, Student and Meeting code in the files of Trigger.

Upload the Screenshot of Milestone / Activity: (Trigger On Trainer Object)



Upload the Screenshot of Milestone / Activity: (Trigger On Student Object)



Upload the Screenshot of Milestone / Activity: (Trigger On Meeting Object)

Developer Console - Google Chrome

aven-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

course.apxc course.vfp trainer.apxc trainerpage.vfp student.vfp meeting.vfp age.apxt ageCheck.apxt **Datecheck.apxt** batch.vfp

Code Coverage: None API Version: 53 Go To

```
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 }
```

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

Name	Line	Problem
------	------	---------