

ForceTraining

All | Scheduled Courses | Salesforce

icloudcomproject-dev-ed.lightning.force.com

Calendar | Salesforce

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Calendar March 2021

MON TUE WED THU FRI SAT SUN

Mar 1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
(00) ADX211 - Admin Essentials for Experienced Admins David Cooper - ADX211						
22	23	24	25	26	27	28
29	30	31	Apr 1	2	3	4
(01) ADX201 - Admin Essentials for new Admins David Cooper - ADX201						

MARCH 2021

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

My Calendars

My Events

Other Calendars

Salesforce Project

Ervin Musincki

21JanSoftware1

ForceTraining

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All | Scheduled Courses | Salesforce

ForceTraining

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Calendar March 2021

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15 (00) ADX211 - Admin Essentials for Experienced Admins David Cooper - ADX211	16	17	18	19	20	21
22	23	24	25	26	27	28
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(01) ADX201 - Admin Essentials for new Admins David Cooper - ADX201						

MARCH 2021

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22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

My Calendars

My Events

Other Calendars

My approach

- Experimented a lot
- Made many mistakes
- Learned from my mistakes
- Experienced limitations
- Never considered the project to be live or for production

Yet to hit a govenor limit, must remedy that soon

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(01) ADX201 - Admin Essentials for new Admins | David Cooper - ADX201

(00) ADX211 - Admin Essentials for Experienced Admins | David Cooper - ADX211

◀ MARCH ▶ 2021

Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 7

8 9 10 11 12 13 14

15 16 17 18 19 20 21

22 23 24 25 26 27 28

29 30 31 1 2 3 4

5 6 7 8 9 10 11

My Calendars

My Events

Other Calendars

Many flow error emails received

All Mailboxes (Found 10 matches for search)

Sort by Unread

FlowApplication 12/03/2021 Error Occurred During Flow *Exp... Details To: Ervin Musincki

Error element CreateInvoiceLine (FlowRecordCreate). This error occurred when the flow tried to create records: REQUIRED_FIELD_MISSING: Required fields are missing: [Instructor_Invoice__c]. You can look up ExceptionCode values in the [SOAP API Developer Guide](#).

FlowApplication 11/03/2021 Error Occurred During Flow *Exp... Error element CreateInvoiceLine (FlowRecordCreate). This error occurred when the flow tried to create records: REQUIRED_FIELD_MISSING: Required fields are missing: [Instructor_Invoice__c]. You can look up ExceptionCode values in the [SOAP API Developer Guide](#).

FlowApplication 26/02/2021 Error Occurred During Flow *Exp... Flow error: click here to debug in Flow Builder. Error element Updat...

FlowApplication 24/02/2021 Error Occurred During Flow *Exp... Flow error: click here to debug in Flow Builder. Error element GetCo...

FlowApplication 24/02/2021 Error Occurred During Flow *Exp... Flow error: click here to debug in Flow Builder. Error element GetCo...

Flow Interview Details Interview Label: Expense LineItem Add New 12/03/2021, 09:40 Current User: Ervin Musincki (0054L000000Zyam) Start time: 12/03/2021, 09:39 Duration: 12 seconds How the Interview Started Ervin Musincki (0054L000000Zyam) started the flow interview. API Version for Running the Flow: 51 Some of this flow's variables were set when the interview started. recordId = 0064L0000071eRQKQAY SCREEN: Add_Expense TextBox: Expense_Type Label: Expense_Type Value at run time: Hotel Dropdown List: Expense_Type_Pick Label: Expense_Type Data Type: Text Choices selected at runtime: Choice selected at runtime: Accommodation (Expense_Type) Choice value: Accommodation

My approach

- Experimented a lot
- Made many mistakes
- Learned from my mistakes
- Experienced many successes
- Never considered giving up, even if I was close to

With the general idea, now

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All | Scheduled Courses | Salesforce

Calendar | Salesforce

ForceTraining

Instructor

Calendar

Scheduled Courses

Instructor Invoices

Certifications

Chatter

Accounts

Reports

Dashboards

MON TUE WED THU FRI SAT SUN

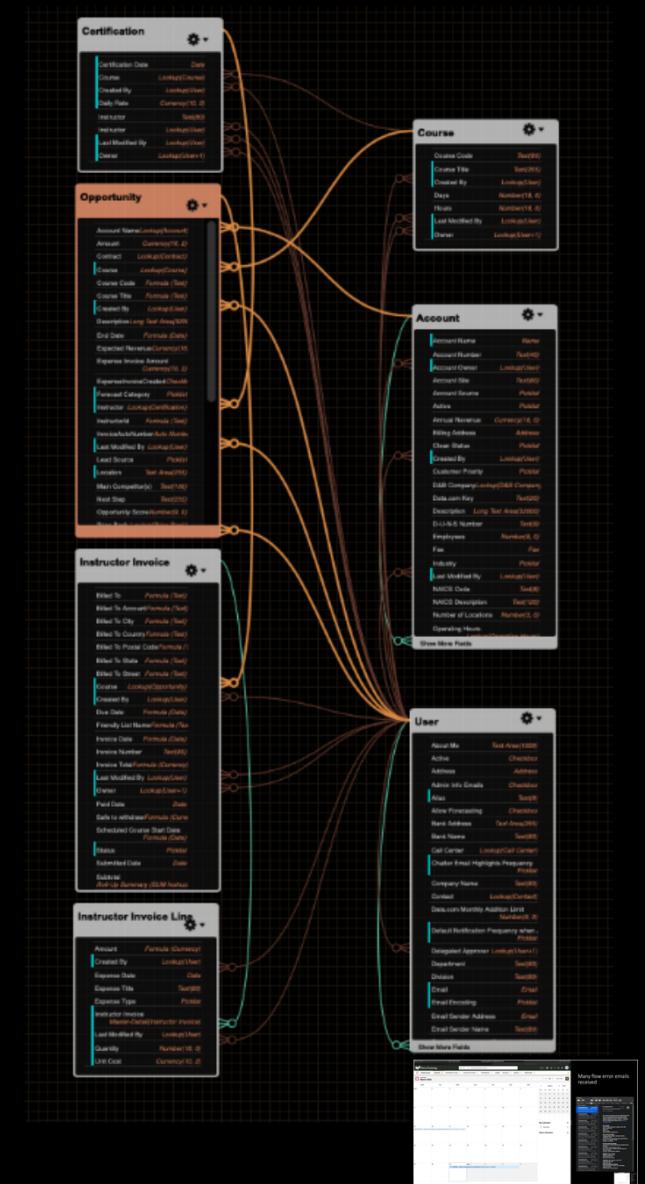
Mar 1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	Apr 1	2	3	4

My Calendars

My Events

Other Calendars

The diagram illustrates the relationships between various Salesforce objects. It shows entities such as Certification, Course, Opportunity, Account, Instructor Invoice, and User, each with their respective fields. Relationships are indicated by lines connecting fields from one object to fields in another. For example, the Certification object has fields like Certification Date, Course Name, and Instructor, which are connected to fields in the Course and Instructor objects. Similarly, the Course object has fields like Course Code, Course Title, and Description, which are connected to fields in the Opportunity and Account objects.



ForceTraining

All | Scheduled Courses | Salesforce

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Calendar | Salesforce

Instructor

Calendar v Scheduled Courses v Instructor Invoices v Certifications v Chatter Accounts v Reports v Dashboards v

Search Events and more...

MON TUE WED THU FRI SAT SUN

Mar 1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
(00) ADX211 - Admin Essentials for Experienced Admins David Cooper - ADX211						
22	23	24	25	26	27	28
29	30	31	Apr 1	2	3	4
(01) ADX201 - Admin Essentials for new Admins David Cooper - ADX201						

< > Today C New Event

MARCH 2021

Mon	Tue	Wed	Thu	Fri	Sat	Sun
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

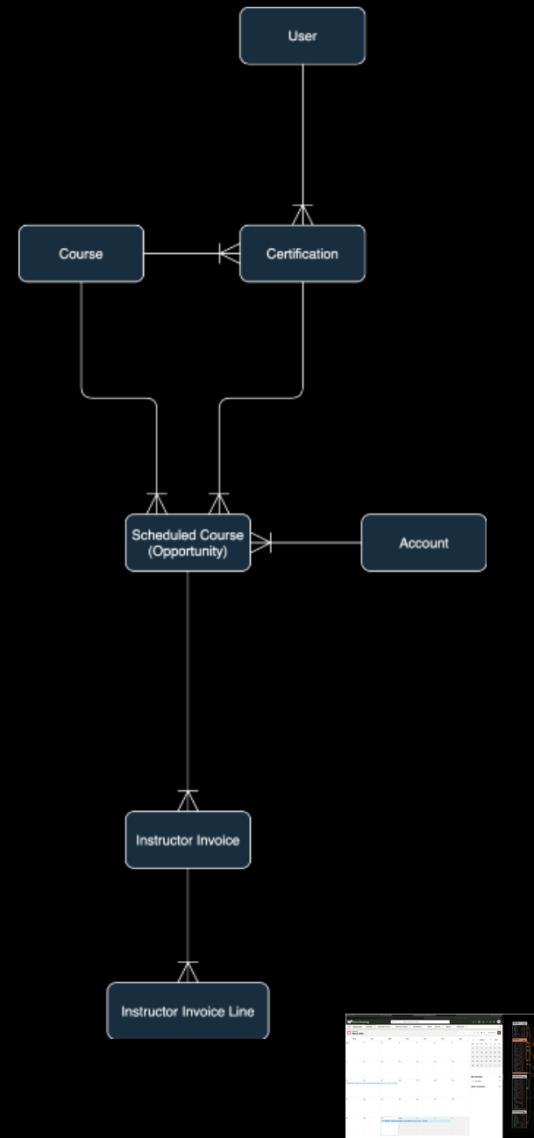
My Calendars

My Events

Other Calendars

```

graph TD
    User --- Course
    User --- Certification
    Course --- Certification
    Course --- ScheduledCourse
    Certification --- ScheduledCourse
    Account --- ScheduledCourse
    ScheduledCourse --- InstructorInvoice
    InstructorInvoice --- InstructorInvoiceLine
  
```



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All | Scheduled Courses | Salesforce

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22	23	24	25	26	27	28	
29	30	31	Apr 1	2	3	4	

(00) ADX211 - Admin Essentials for Experienced Admins | David Cooper - ADX211

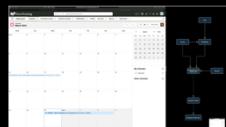
(01) ADX201 - Admin Essentials for new Admins | David Cooper - ADX201

User Licenses

Name	Status	Total Licenses	Used Licenses	Remaining Licenses	Expiration
Salesforce	Active	2	2	0	
Chatter Free	Active	5,000	1	4,999	
Salesforce Platform	Active	3	2	1	
Customer Community Login	Active	5	0	5	
XOrg Proxy User	Active	2	0	2	
Work.com Only	Active	3	0	3	
Customer Portal Manager Custom	Active	5	0	5	
Identity	Active	110	0	110	
Customer Community Plus	Active	5	0	5	
Silver Partner	Active	2	0	2	

Show 10 more ▾ Go to list (22) ▾

Rename opportunities or create new custom object



Demo limitations with only a single spare Salesforce License available

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All | Scheduled Courses | Salesforce

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Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

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(01) ADX201 - Admin Essentials for new Admins David Cooper - ADX201						

MARCH 2021

Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4
5 6 7 8 9 10 11

My Calendars
My Events

Other Calendars

Security

QA

- Add Role
- CEO [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Billing Administrator [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - CFO [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - COO [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - SVP, Customer Service & Support [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Customer Support, International [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Customer Support, North America [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Installation & Repair Services [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - SVP, Human Resources [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - SVP, Sales & Marketing [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - VP, International Sales [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - VP, Marketing [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Marketing Team [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - VP, North American Sales [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Director, Channel Sales [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Channel Sales Team [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Director, Direct Sales [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Eastern Sales Team [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Western Sales Team [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Training Co-ordinator [Edit](#) [Del](#) [Assign](#)
 - Add Role
 - Instructor [Edit](#) [Del](#) [Assign](#)
 - Add Role

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All | Courses | Salesforce

ForceTraining

Instructor Calendar Scheduled Courses Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Courses All

5 items · Sorted by Course Code · Filtered by All courses · Updated a few seconds ago

	Course Code ↑	Course Title	Days	Hours
1	ADX201	Admin Essentials for new Admins	4	25
2	ADX211	Admin Essentials for Experienced Admins	3	24
3	ADX231	Introduction to Apex & Object Oriented Programming	5	35
4	DEX403	Declarative Development for Platform App Builders	5	40
5	DEX450	Programmatic Development with Apex & Visualforce	5	35

New Import Change Owner Printable View New Scheduled Course

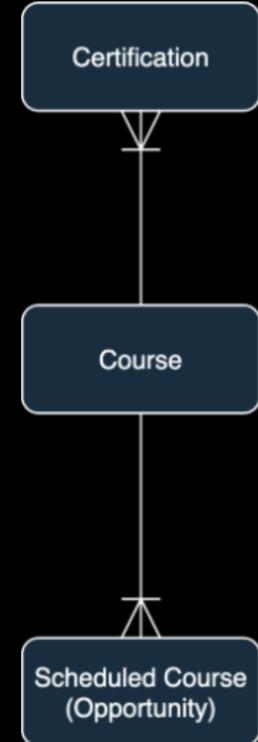
Search this list...

Search Courses and more...

Calendar | Salesforce

```
graph TD; Certification[Certification] --- Course[Course]; Course --- ScheduledCourse[Scheduled Course (Opportunity)]
```

Courses



ForceTraining

All | Courses | Salesforce

Search Courses and more...

Instructor Calendar Scheduled Courses Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Courses All

1 item selected

	Course Code	Course Title	Days	Hours
1	<input checked="" type="checkbox"/> ADX201	Admin Essentials for new Admins	4	25
2	<input type="checkbox"/> ADX211	Admin Essentials for Experienced Admins	3	24
3	<input type="checkbox"/> ADX231	Introduction to Apex & Object Oriented Programming	5	35
4	<input type="checkbox"/> DEX403	Decomposition		40
5	<input type="checkbox"/> DEX450	Programmatic		35

New Import Change Owner Printable View New Scheduled Course

Search this list...

New Certification

Instructor David Cooper

Course ADX201

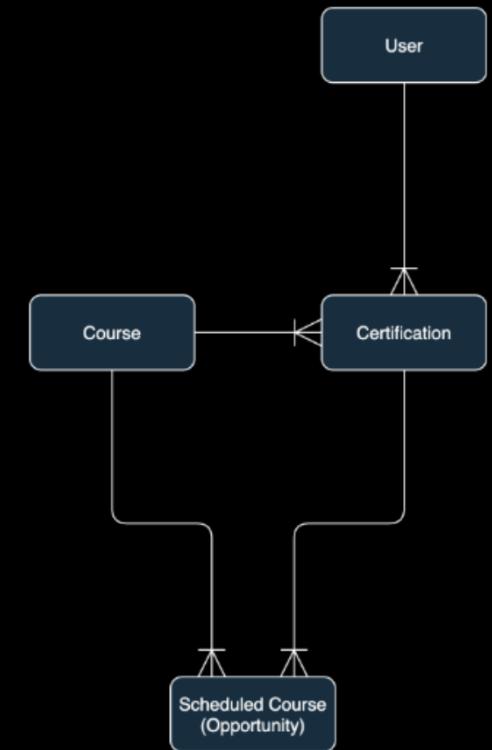
* Daily Rate £5.00

* Certification Date 31/03/2021

Cancel Save

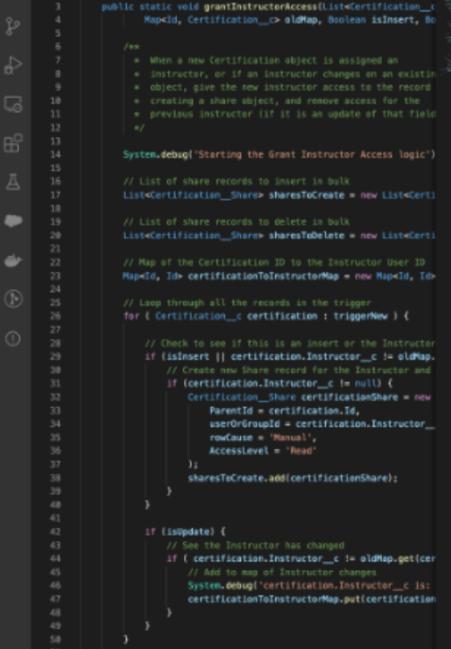
The screenshot shows the ForceTraining Salesforce application interface. The user is navigating through the 'Courses' section and has opened a modal dialog titled 'New Certification'. The dialog form includes fields for 'Instructor' (set to 'David Cooper'), 'Course' (set to 'ADX201'), 'Daily Rate' (£5.00), and 'Certification Date' (31/03/2021). At the bottom of the dialog are 'Cancel' and 'Save' buttons.

Creating a certification



ForceTraining					
Instructor		Calendar	Scheduled Courses	Instructor Invoices	Certifications
	Certifications	All		Search Certifications and more...	
5 items · Sorted by Instructor · Filtered by All certifications · Updated a few seconds ago				Search this list...	
Instructor ↑	Course	Certification Date	Daily Rate		
1 David Cooper	DEX450	26/02/2021	£1.36		
2 David Cooper	ADX211	26/02/2021	£60.00		
3 David Cooper	ADX231	26/02/2021	£78.00		
4 David Cooper	DEX403	26/02/2021	£48.00		
5 David Cooper	ADX201	31/03/2021	£10.00		

Certification access



The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** CertificationTriggerHandler.cls - QA Project
- Code Editor:** The main window displays the `CertificationTriggerHandler.cls` file. The code is a Force.com class with sharing annotations and logic for handling instructor access changes.
- Toolbars:** Standard Eclipse toolbars for file operations, search, and navigation.
- Sidebar:** Shows the package structure and a list of files in the current project.
- Bottom Status Bar:** Displays the current file path (`C:\Users\LT-B\I-F\Ansari\Practi...`), the status bar icon, and the Eclipse logo.

```
 1  public with sharing class CertificationTriggerHandler {  
 2      public static void grantInstructorAccess(List<Certification__c> oldMap, boolean isInsert, Boolean isUpdate) {  
 3          Map<Id, Certification__c> certificationToInstructorMap = new Map<Id, Certification__c>();  
 4          List<Certification__Share> sharesToDelete = new List<Certification__Share>();  
 5          List<Certification__Share> sharesToUpdate = new List<Certification__Share>();  
 6  
 7          // When a new Certification object is assigned an Instructor, or if an Instructor changes on an existing object, give the new Instructor access to the record by creating a share object, and remove access for the previous Instructor (if it is an update of that field)  
 8          //  
 9          // System.debug('Starting the Grant Instructor Access logic')  
10  
11          // List of share records to insert in bulk  
12          List<Certification__Share> sharesToDelete = new List<Certification__Share>();  
13  
14          // List of share records to delete in bulk  
15          List<Certification__Share> sharesToUpdate = new List<Certification__Share>();  
16  
17          // Map of the Certification ID to the Instructor User ID  
18          Map<Id, Id> certificationToInstructorMap = new Map<Id, Id>();  
19  
20          // Loop through all the records in the trigger  
21          for (Certification__c certification : triggerNew) {  
22  
23              // Check to see if this is an Insert or the Instructor is changing  
24              if (isInsert || certification.Instructor__c != oldMap.get(certification.Id).Instructor__c) {  
25                  // Create a share record for the Instructor  
26                  if (certification.Instructor__c != null) {  
27                      Certification__Share certificationShare = new Certification__Share();  
28                      certificationShare.certificationId = certification.Id;  
29                      certificationShare.instructorId = certification.Instructor__c;  
30                      certificationShare.shareCause = 'Manual';  
31                      certificationShare.accessLevel = 'Read';  
32                  }  
33                  sharesToUpdate.add(certificationShare);  
34              }  
35  
36              if (isUpdate) {  
37                  // See if the Instructor has changed  
38                  if (certification.Instructor__c != oldMap.get(certification.Id).Instructor__c) {  
39                      // Add to map of Instructor changes  
40                      System.debug('certification.Instructor__c is: ' + certification.Instructor__c);  
41                      certificationToInstructorMap.put(certification.Id, certification.Instructor__c);  
42                  }  
43              }  
44  
45              if (certificationToInstructorMap.size() > 0) {  
46  
47                  System.debug('certificationToInstructorMap is: ' + certificat...  
48  
49                  for (List<Certification__Share> certificationShares :  
50
```

ForceTraining

All | Courses | Salesforce

All | Certifications | Salesforce

Instructor Calendar Scheduled Courses Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Courses All

1 item selected

	Course Code	Course Title	Days	Hours
1	<input checked="" type="checkbox"/> ADX201	ADM		25
2	<input type="checkbox"/> ADX211	ADM		24
3	<input type="checkbox"/> ADX231	Intro		35
4	<input type="checkbox"/> DEX403	Dec		40
5	<input type="checkbox"/> DEX450	Prog		35

New Import Change Owner Printable View New Scheduled Course

Search this list...

New Scheduled Course

Course
ADX201

*Instructor
David Cooper

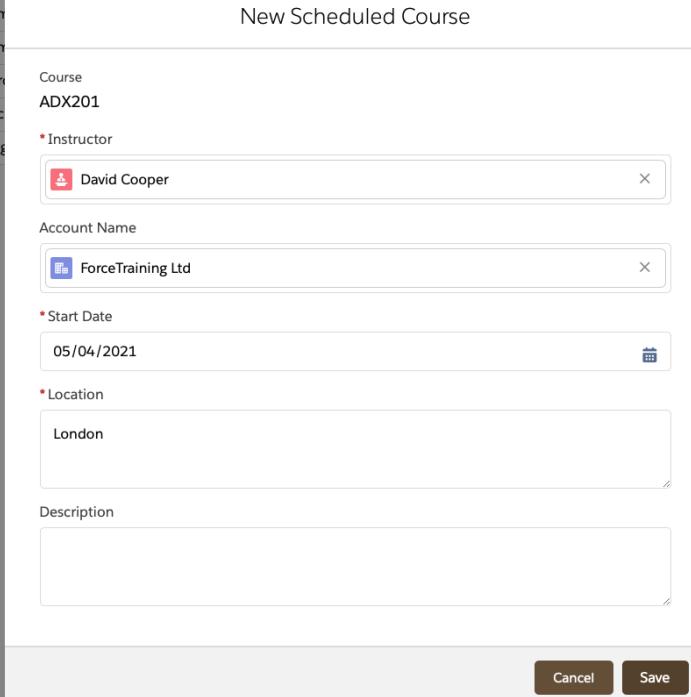
Account Name
ForceTraining Ltd

*Start Date
05/04/2021

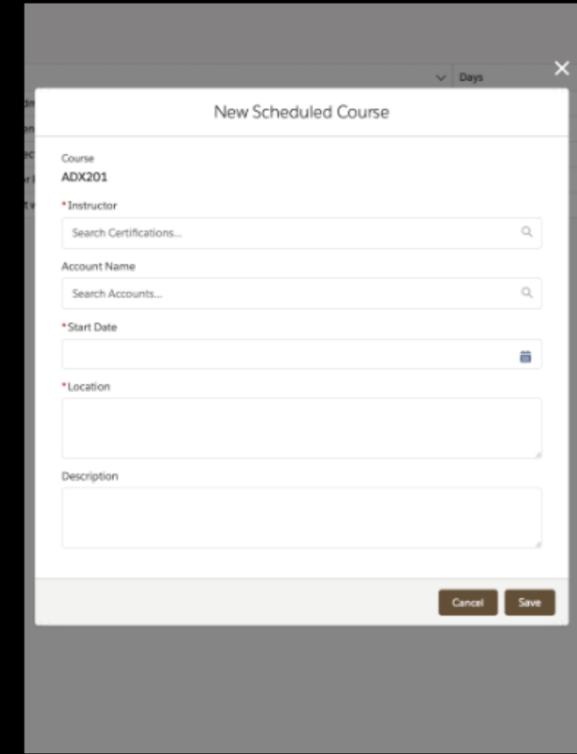
*Location
London

Description

Cancel Save



Scheduling a course



ForceTraining

All | Courses | Salesforce

Search Scheduled Courses and more...

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Scheduled Course David Cooper - ADX201

Course Title Admin Essentials for new Admins Stage Completed Expense Invoice Amount Service Invoice Amount

Completed Change Closed Stage

Details

- Scheduled Course Name: David Cooper - ADX201
- Course: ADX201
- Account Name: ForceTraining Ltd
- Start Date: 31/03/2021
- Location: London
- Description:

Activity

- Instructor: David Cooper
- Course Title: Admin Essentials for new Admins
- Stage: Completed
- End Date: 03/04/2021
- Scheduled Course Owner: Ervin Musincki

Chatter

Expenses

EXPENSE TITLE	EXPENSE TYPE	QUANTITY	UNIT COST	AMOUNT
Car	Car Hire	2	£1.00	£2.00
Hotel	Accommodation	1	£5.00	£5.00
Hotel	Accommodation	1	£5.00	£5.00
Hotel	Accommodation	1	£5.00	£5.00

Add Expense

- clone from past invoice
- *Expense Title
- *Expense Type: Accommodation
- *Expense Date
- *Unit Cost
- *Quantity: 1

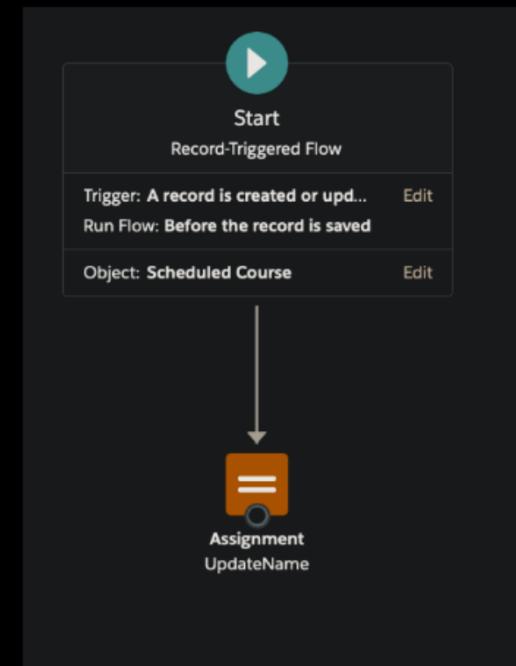
Next

Invoices (2)

EXPINV-0016	Status: Draft	Subtotal: £17.00
INV-0016	Status: Draft	Subtotal: £40.00

Related List Quick Links

A few things happen automatically after scheduling



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All | Courses | Salesforce

All | Scheduled Courses | Salesforce

ForceTraining

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Scheduled Courses All

2 items · Sorted by Scheduled Course Name · Filtered by All scheduled courses · Updated a few seconds ago

	Scheduled Course Name ↑	Account Name ↓	Stage ↓	Start Date ↓	Amount ↓	Scheduled Course ... ↓
1	David Cooper - ADX201	ForceTraining Ltd	Completed	31/03/2021	EMusi	
2	David Cooper - ADX211	ForceTraining Ltd	Completed	15/03/2021	EMusi	

Printable View

Search this list...

Search Scheduled Courses and more...

David Cooper - ADX201 ForceTraining Ltd Completed 31/03/2021 EMusi

David Cooper - ADX211 ForceTraining Ltd Completed 15/03/2021 EMusi

Apex triggers

```
force-app > main > default > triggers > ScheduledCourseTrigger.trigger > ScheduledCourseTrigger.trigger
```

```
trigger ScheduledCourseTrigger on Opportunity (after insert, after update)
```

```
    switch on Trigger.OperandType
```

```
        when AFTER_INSERT {
```

```
            ScheduledCourseTriggerHandler.grantInstructorAccess(Trigger.New);
```

```
            ScheduledCourseTriggerHandler.createCourseEvent(Trigger.New);
```

```
        }
```

```
        when AFTER_UPDATE {
```

```
            ScheduledCourseTriggerHandler.grantInstructorAccess(Trigger.New);
```

```
            ScheduledCourseTriggerHandler.createCourseEvent(Trigger.New);
```

```
        }
```

Scheduled Courses						
Instructor		Calendar		Scheduled Courses		
Instructor		Calendar		Instructor Invoices	Certifications	Chatter
 Scheduled Courses	All					
2 items · Sorted by Scheduled Course Name · Filtered by All scheduled courses · Updated a few seconds ago						
1	<input type="checkbox"/> David Cooper - ADX201	ForceTraining Ltd	Completed	31/03/2021	EMusi	
2	<input type="checkbox"/> David Cooper - ADX211	ForceTraining Ltd	Completed	15/03/2021	EMusi	

Scheduled Course access

ForceTraining

All Search Events and more...

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22	23	24	25	26	27	28
29	30	31	Apr 1	2	3	

My Calendars

My Events

Other Calendars

ADX201 - Admin Essentials for new Admins

Start: 31/03/2021, 01:00
End: 03/04/2021, 01:00
Related To: David Cooper - ADX201

More Details Edit Delete

ScheduledCourseTriggerHandler.cls — GA Project

```

public class ScheduledCourseTriggerHandler {
    public static void grantInstructorAccess(List<Opportunity> triggerNew) {
        // When a new Scheduled Course object is created or if t
        // or end date or location fields are changed on an exist
        // ing record
        // a new event record is created and assigned to the In
        // structor
        // object is deleted or relevant fields are updated the
        // event is deleted
        System.debug('Starting the Create Course Event logic');

        // List of event records to insert in bulk
        List<Event> eventsToCreate = new List<Event>();

        // Map of relevant updated courses and operation type
        List<Id> coursesUpdated = new List<Id>();

        // List of event records to delete in bulk
        List<Event> eventsToDelete = new List<Event>();

        // Loop through all the records in the trigger
        for (Opportunity scheduledCourse : triggerNew) {

            Boolean isRelevantUpdate = isUpdate && scheduledCourse.Status == 'In Progress' || isDelete;
            Boolean isCancelled = isUpdate && scheduledCourse.StageName == 'Cancelled';

            // Check to see if this is an insert or a relevant update
            if (!isInsert || !isRelevantUpdate) {
                // Create new event and add to list
                if (scheduledCourse.Instructor_c != null && scheduledCourse.End_Date__c != null && scheduledCourse.Location__c != null) {
                    Event scheduledCourseEvent = new Event();
                    scheduledCourseEvent.OwnerId = scheduledCourse.InstructorId__c;
                    scheduledCourseEvent.WhatId = scheduledCourse.Id;
                    scheduledCourseEvent.Subject = scheduledCourse.Course_Code__c;
                    scheduledCourseEvent.StartDate = scheduledCourse.Course_CloseDate;
                    scheduledCourseEvent.EndDateTime = scheduledCourse.End_Date__c;
                    scheduledCourseEvent.Location = scheduledCourse.Location__c;
                }
                eventsToCreate.add(scheduledCourseEvent);
            }
        }

        if (isRelevantUpdate || isCancelled) {
            coursesUpdated.add(scheduledCourse.Id);
        }
    }
}

```

Calendar event

ForceTraining

All Search Events and more...

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Calendar March 2021

MON	TUE	WED	THU	FRI	SAT	SUN
Mar 1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	Apr 1	2	3	4

(00) ADX211 - Admin Essentials for Experienced Admins | David Cooper - ADX211

(01) ADX201 - Admin Essentials for new Admins | David Cooper - ADX201

MON TUE WED THU FRI SAT SUN

MARCH 2021

1 2 3 4 5 6 7

8 9 10 11 12 13 14

15 16 17 18 19 20 21

22 23 24 25 26 27 28

29 30 31 1 2 3 4

5 6 7 8 9 10 11

My Calendars

My Events

Other Calendars

Apex testing

```

ScheduledCourseTriggerHandler_Test.cls - QA Project
force-app/main/default/classes/ScheduledCourseTriggerHandler_Test.cls
1 @isTest
2 private class ScheduledCourseTriggerHandler_Test {
3     //testSetup
4     static void setupData() {
5         List<User> testInstructors = LoadDataTestFactory.createUser();
6         //Insert testInstructors
7         List<Course_c> testCourses = LoadDataTestFactory.loadCourses();
8         List<Account> testAccounts = LoadDataTestFactory.loadAccounts();
9         List<Certification__c> testCertifications = LoadDataTestFactory.loadCertifications();
10    }
11
12    //test
13    static void grantInstructorAccessInsert() {
14        List<Account> activeAccount = [SELECT Id FROM Account LIMIT 1];
15        Account mAccount = activeAccount[0];
16
17        List<Course_c> activeCourse = [SELECT Id FROM Course_c LIMIT 1];
18        Course_c mCourse = activeCourse[0];
19
20        Profile instructorP = [SELECT Id FROM Profile WHERE Name='Instructor'];
21        Profile instructorPP = [SELECT Id FROM Profile WHERE Name='Primary Instructor'];
22        List<User> instructors = [SELECT Id, Username FROM User WHERE Instructor = true];
23        User mInstructor = instructors[0];
24        User certInstructor = instructors[1];
25
26        Certification__c newCert = new Certification__c(Course__c=mCourse.Id);
27        insert newCert;
28        List<Certification__c> aCertList = [SELECT Id FROM Certification__c];
29        Certification__c mCert = aCertList[0];
30
31        System.runAs(certInstructor) {
32            for (List<Opportunity> courses : [SELECT Id FROM Opportunity]) {
33                for (Opportunity course : courses) {
34                    ++preScheduleCountInst1;
35                }
36            }
37        }
38
39        System.runAs(mInstructor) {
40            for (List<Opportunity> courses : [SELECT Id FROM Opportunity]) {
41                for (Opportunity course : courses) {
42                    ++postScheduleCountInst1;
43                }
44            }
45        }
46
47        System.runAs(mInstructor) {
48            for (List<Opportunity> courses : [SELECT Id FROM Opportunity]) {
49                for (Opportunity course : courses) {
50                    ++preScheduleCountInst2;
51                }
52            }
53        }
54    }
55}

```

ForceTraining

All Search Events and more...

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Calendar | Salesforce

Calendar March 2021

	MON	TUE	WED	THU	FRI	SAT	SUN	
Mar 1	2	3	4	5	6	7		
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		(00) ADX211 - Admin Essentials for Experienced Admins David Cooper - ADX211
22	23	24	25	26	27	28		
29	30	31	Apr 1	2	3	4		(01) ADX201 - Admin Essentials for new Admins David Cooper - ADX201

== Test Summary

NAME	VALUE
Outcome	Passed
Tests Ran	6
Pass Rate	100%
Fail Rate	0%
Skip Rate	0%
Test Run Id	7074L0000000Q7B5
Test Execution Time	11923 ms
Org Id	0004L000000u0uUAK
Username	ergo96@icloud.com.project
Org Wide Coverage	86%

== Apex Code Coverage for Test Run 7074L000000Q7B5

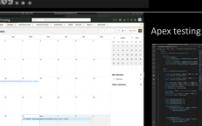
TEST NAME	CLASS BEI
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsert	Scheduled
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsert	LoadData
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsert	Certifica
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsert	Scheduled
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsert	Certifica
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsertBulk	Certifica
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsertBulk	Scheduled
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsertBulk	Certifica
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsertBulk	Scheduled
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsertBulk	Certifica
ScheduledCourseTriggerHandler_Test.grantInstructorAccessInsertBulk	LoadData
ScheduledCourseTriggerHandler_Test.grantInstructorAccessUpdate	Scheduled
ScheduledCourseTriggerHandler_Test.grantInstructorAccessUpdate	LoadData
ScheduledCourseTriggerHandler_Test.grantInstructorAccessUpdate	Certifica
ScheduledCourseTriggerHandler_Test.grantInstructorAccessUpdate	Certifica
ScheduledCourseTriggerHandler_Test.grantInstructorAccessUpdate	Certifica
ScheduledCourseTriggerHandler_Test.insertInstructorAccessUpdate	Scheduled
CertificationTriggerHandler_Test.insertCertification	Certifica
CertificationTriggerHandler_Test.insertCertification	LoadData
CertificationTriggerHandler_Test.insertCertification	Certifica
CertificationTriggerHandler_Test.insertCertification	Certifica
CertificationTriggerHandler_Test.insertCertificationBulk	Certifica
CertificationTriggerHandler_Test.insertCertificationBulk	LoadData
CertificationTriggerHandler_Test.insertCertificationBulk	Certifica
CertificationTriggerHandler_Test.insertCertificationBulk	Certifica
CertificationTriggerHandler_Test.updateCertification	Certifica
CertificationTriggerHandler_Test.updateCertification	LoadData
CertificationTriggerHandler_Test.updateCertification	Certifica

== Apex Code Coverage by Class

CLASSES	PERCENT	UNCOVERED LINES
ScheduledCourseTrigger	100%	
ScheduledCourseTriggerHandler	86%	77,78,79,100,109...
LoadDataTestFactory	100%	
CertificationTrigger	100%	
CertificationTriggerHandler	91%	77,78,79

08:03:38.453 ended SFDX: Run Apex Tests

Still needs work



ForceTraining

All Search Events and more...

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Calendar March 2021

MON	TUE	WED	THU	FRI	SAT	SUN
Mar 1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
(00) ADX211 - Admin Essentials for Experienced Admins David Cooper - ADX211						
22	23	24	25	26	27	28
29	30	31	Apr 1	2	3	4
		(01) ADX201 - Admin Essentials for new Admins David Cooper - ADX201				

MARCH 2021

Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4
5 6 7 8 9 10 11

My Calendars
My Events

Other Calendars

More than 5% of lines are catch blocks

```

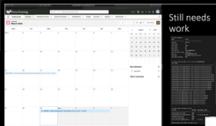
        rawCause = 'Manual',
        AccessLevel = 'Read'
    );
    sharesToCreate.add(certificationShare);
}

if (isUpdate) {
    // See the Instructor has changed
    if (certification.Instructor__c != oldMap.get(certification.Id).Instruc
    // Add to map of Instructor changes
    System.debug('certification.Instructor__c is: ' + certification.Ins
    certificationToInstructorMap.put(certification.Id, certification.Ins
}

if (certificationToInstructorMap.size() > 0 ) {
    System.debug('certificationToInstructorMap is: ' + certificationToInstructor
    for (List<Certification__Share> certificationShares :
        SELECT UserId/GroupId, RowCause, ParentId, Id, AccessLevel
        FROM Certification__Share
        WHERE ParentId IN :certificationToInstructorMap.keySet()
        AND RowCause = 'Manual']){
        for (Certification__Share certificationShare : certificationShares) {
            if (certificationToInstructorMap.get(certificationShare.ParentId) !=
                sharesToDelete.add(certificationShare);
        }
    }
}

try {
    if (sharesToCreate.size() > 0 ) {
        insert sharesToCreate;
    }
    if (sharesToDelete.size() > 0 ) {
        delete sharesToDelete;
    }
} catch (System.DmlException ex) {
    Error_Log__c err = new Error_Log__c(Source__c = 'grantInstructorAccess', mes
    insert err;
}
}

```



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ForceTraining

All Search Events and more...

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Calendar March 2021

MON	TUE	WED	THU	FRI	SAT	SUN
Mar 1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
(00) ADX211 - Admin Essentials for Experienced Admins David Cooper - ADX211						
22	23	24	25	26	27	28
29	30	31	Apr 1	2	3	4
		(01) ADX201 - Admin Essentials for new Admins David Cooper - ADX201				

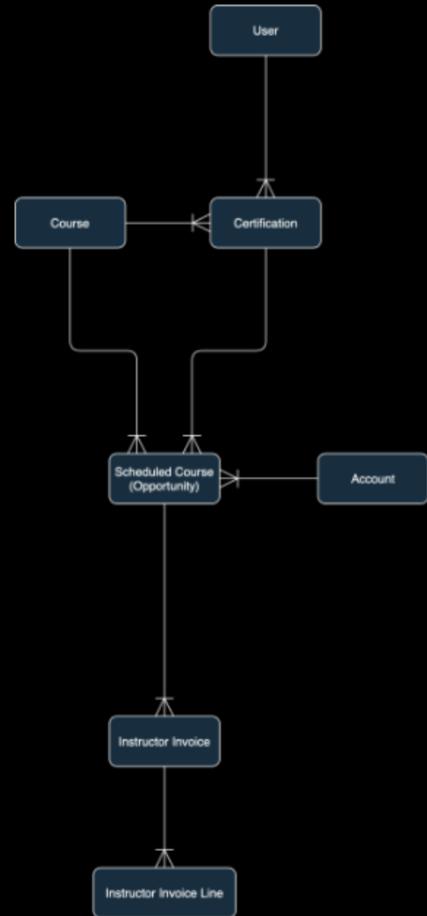
MARCH 2021

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

My Calendars
My Events

Other Calendars

Invoices



ForceTraining

Search Scheduled Courses and more...

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Scheduled Course David Cooper - ADX201

Course Title Admin Essentials for new Admins Stage Completed Expense Invoice Amount Service Invoice Amount

Completed Change Closed Stage

Details

- Scheduled Course Name: David Cooper - ADX201
- Course: ADX201
- Account Name: ForceTraining Ltd
- Start Date: 31/03/2021
- Location: London
- Description:

Activity

- Instructor: David Cooper
- Course Title: Admin Essentials for new Admins
- Stage: Completed
- End Date: 03/04/2021
- Scheduled Course Owner: Ervin Musincki

Chatter

Expenses

EXPENSE TITLE	EXPENSE TYPE	QUANTITY	UNIT COST	AMOUNT
Car	Car Hire	2		
Hotel	Accommodation	1		
Hotel	Accommodation	1		
Hotel	Accommodation	1		

INVOICE

INV-0016

Course: David Cooper - ADX201 Invoice Date: 31/03/2021

Status: Draft Subtotal: £40.00

Invoice Total: £48.00

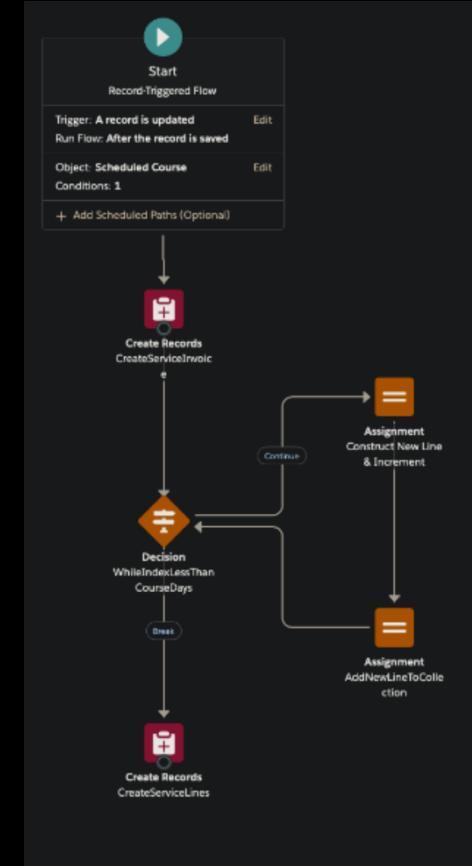
Invoices (2)

EXPINV-0016 Status: Draft Subtotal: £17.00

INV-0016 Status: Draft Subtotal: £40.00

Related List Quick Links

Automatically creating Service Invoices



ForceTraining

All Search Scheduled Courses and more... David Cooper - ADX201 | Salesforce

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Scheduled Course David Cooper - ADX201

Course Title Admin Essentials for new Admins Stage Completed Expense Invoice Amount Service Invoice Amount

Completed Change Closed Stage

Details Activity Chatter

Scheduled Course Name David Cooper - ADX201 Instructor David Cooper Course Admin Essentials for new Admins Stage Completed End Date 03/04/2021 Location London Description

Start Date 31/03/2021

Add Expense

clone from past invoice

*Expense Title

*Expense Type Accommodation

*Expense Date

*Unit Cost

*Quantity 1

Next

Expenses

EXPENSE TITLE	EXPENSE TYPE	QUANTITY	UNIT COST	AMOUNT
Car	Car Hire	2	£1.00	£2.00
Hotel	Accommodation	1	£5.00	£5.00
Hotel	Accommodation	1	£5.00	£5.00
Hotel	Accommodation	1	£5.00	£5.00

Invoices (2)

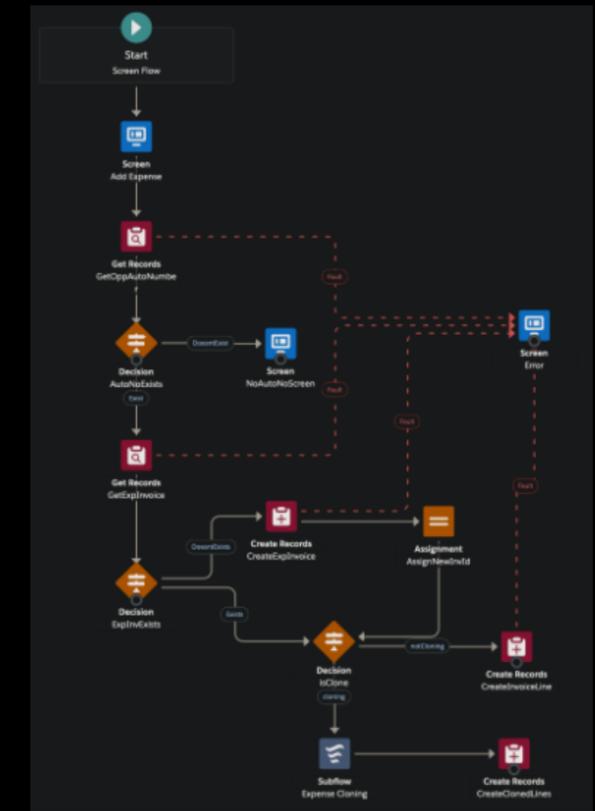
EXPINV-0016 Status: Draft Subtotal: £17.00

INV-0016 Status: Draft Subtotal: £40.00

View All

Related List Quick Links

Expense Invoice Screen Flow



ForceTraining

All Search Scheduled Courses and more... David Cooper - ADX201 | Salesforce

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Scheduled Course David Cooper - ADX201

Course Title Admin Essentials for new Admins Stage Completed Expense Invoice Amount Service Invoice Amount

Completed Change Closed Stage

Details Activity Chatter

Scheduled Course Name David Cooper - ADX201 Instructor David Cooper Course Title Admin Essentials for new Admins Stage Completed End Date 03/04/2021 Scheduled Course Owner Ervin Musincki

Start Date 31/03/2021 Location London Description

Expenses

EXPENSE TITLE	EXPENSE TYPE	QUANTITY	UNIT COST	AMOUNT
Car	Car Hire	2	£1.00	£2.00
Hotel	Accommodation	1	£5.00	£5.00
Hotel	Accommodation	1	£5.00	£5.00
Hotel	Accommodation	1	£5.00	£5.00

Add Expense

clone from past invoice *Scheduled Course to clone from

✓ ADX201 : Admin Essentials for new Admins - 2021-03-31
ADX211 : Admin Essentials for Experienced Admins - 2021-03-15

Next

Invoices (2)

EXPINV-0016 Status: Draft Subtotal: £17.00

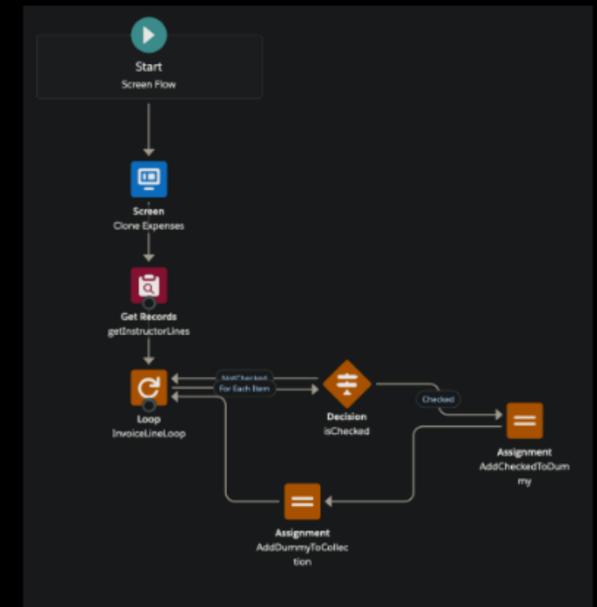
INV-0016 Status: Draft Subtotal: £40.00

View All

Related List Quick Links

Notes & Attachments (0) Stage History (2) Invoices (2)

Cloning Subflow



ForceTraining

All Search... Calendar | Salesforce EXPINV-0016 | Salesforce

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

Instructor Invoice EXPINV-0016

Course David Cooper - ADX201 Invoice Date 31/03/2021 Status Draft Subtotal £17.00 Invoice Total £20.40

Generate PDF

Draft → Submitted → Paid ✓ Mark Status as Complete

Fields

Information

Invoice Number EXPINV-0016
Course David Cooper - ADX201
Billed To ForceTraining Ltd, 32 Guild Street, LONDON
UK, EC2N 3RN
Subtotal £17.00
VAT 20%
Submitted Date
Paid Date
Tax Retention 30%

Invoice Lines (4)

Expense Title Expense Type Expense Date Unit Cost Quantity Amount

Generate PDF

Instructor Invoice Custom Button or Link Generate PDF Help for this Page

Back to Custom Object: Instructor Invoice

Custom Button or Link Detail

Label	Generate PDF	Object Name	Instructor Invoice
Name	Generate_PDF	Behavior	Display in new window
Content Source	Visualforce Page	Display Type	Detail Page Button
Height (in pixels)	600	Visualforce Page	instructorinvoice_inPDF
Width (in pixels)		Show Address Bar	<input type="checkbox"/>
Window Position	No Preference	Show Scrollbars	<input checked="" type="checkbox"/>
Resizable	<input checked="" type="checkbox"/>	Show Toolbars	<input type="checkbox"/>
		Show Menu Bar	<input type="checkbox"/>
Description			
Created By	Erin Mairick, 24/03/2021, 14:41		
Modified By	Erin Mairick, 24/03/2021, 14:41		

Edit Window Open Properties Delete Where is this used?

ForceTraining

All Search...

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

EXPINV-0016

EXPENSE INVOICE

ForceTraining
32 Guild Street, London, EC2N 3RN
United Kingdom
forctraining.com

Bill To	Mail To	Invoice Number			
ForceTraining Ltd 32 Guild Street LONDON UK EC2N 3RN	ForceTraining Ltd 32 Guild Street LONDON UK EC2N 3RN	EXPINV-0016			
Date	Expense Title	Expense Type	Unit Cost	Quantity	Amount
05/04/2021	Car	Car Hire	£1.00	2	£2.00
05/04/2021	Hotel	Accommodation	£5.00	1	£5.00
06/04/2021	Hotel	Accommodation	£5.00	1	£5.00
07/04/2021	Hotel	Accommodation	£5.00	1	£5.00
				Sub Total	£17.00
				VAT	20%
Invoice Total £20.40					

Payment Reference EXPINV-0016
Consultant Name David Cooper
Account Name David Cooper
IBAN
SWIFT

Bank Name
Bank Address

Dynamically adjusts to Invoice Type

```

<apex:page>
    <apex:main>
        <apex:include standardController="Instructor_Invoice__c" renderAs="pdf"/>
    </apex:main>
    <!-- The same visualforce page is used to generate both the service and expense invoices. The dynamic behavior is achieved by conditionally applying a "hidden" class to elements according to invoice type. -->
    <apex:stylesheet value="/c/resource/Styles/Styles/InstructorInvoicePDF.css"/>
    <apex:variable value="((Instructor_Invoice__c.Name, 'EXPINV'), 'InstructorForService')"/>
    <apex:header>
        <div id="headerInvoiceNumber">
            <apex:outputText value="((Instructor_Invoice__c.Name))" />
        </div>
        <div id="title">
            <apex:img alt="Force Training Logo" value="https://icloudcomproject-dev-ed.my.salesforce.com/sfcdist/version/32_Guild_Street,_London,_UK,_EC2N_3RN_.png"/>
            <div id="INVOICE_ID">
                <apex:outputText value="((Instructor_Invoice__c.Name), 'EXPINV', 'SERVICE')"/>
            </div>
        </div>
        <div id="companyInfo">
            <apex:img alt="Force Training Logo" value="https://icloudcomproject-dev-ed.my.salesforce.com/sfcdist/version/32_Guild_Street,_London,_UK,_EC2N_3RN_.png"/>
            <p>32 Guild Street, London, United Kingdom</p>
            <p>forctraining.com</p>
        </div>
    </apex:header>
    <div id="invoiceDetails">
        <div class="invoiceAddress">
            <table id="invoiceDetailTable">
                <tr>
                    <td>BILL TO:</td>
                </tr>
                <tr>
                    <td><apex:outputText value="((Instructor_Invoice__c.Billed_To_Account__c))" /></td>
                </tr>
                <tr>
                    <td><apex:outputText value="((Instructor_Invoice__c.Billed_To_Street__c))" /></td>
                </tr>
                <tr>
                    <td><apex:outputText value="((Instructor_Invoice__c.Billed_To_City__c))" /></td>
                </tr>
                <tr>
                    <td><apex:outputText value="((Instructor_Invoice__c.Billed_To_State__c))" /></td>
                </tr>
            </table>
        </div>
    </div>

```

ForceTraining

All Search... Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards EXPINV-0016 EXPENSE INVOICE

Bill To
ForceTraining Ltd
32 Guild Street
LONDON
UK
EC2N 3RN

Mail To
ForceTraining Ltd
32 Guild Street
LONDON
UK
EC2N 3RN

Invoice Number EXPINV-0016
Invoice Date
Due Date
Course Location London
Course Start Date 31/03/2021
Course End Date 03/04/2021
Instructor David Cooper

Date	Expense Title	Expense Type	Unit Cost	Quantity	Amount
05/04/2021	Car	Car Hire	£1.00	2	£2.00
05/04/2021	Hotel	Accommodation	£5.00	1	£5.00
06/04/2021	Hotel	Accommodation	£5.00	1	£5.00
07/04/2021	Hotel	Accommodation	£5.00	1	£5.00

Sub Total £17.00
VAT 20%

Invoice Total £20.40

Payment Reference EXPINV-0016
Consultant Name David Cooper
Account Name David Cooper
IBAN
SWIFT

Bank Name
Bank Address

Styles can be made more dynamic with more input

```
# InstructorInvoicePDF.css
force-app/main/default/staticresources/Styles/Styles/# InstructorInvoicePDF.css

1 /* Globals
2 */
3
4 @page {
5   size: A4;
6   margin: -3mm;
7   padding: 0mm;
8   font-family: Helvetica;
9 }
10
11 .hiddenForService {
12   display: none;
13 }
14
15 /*
16 * Header
17 */
18
19 header {
20   position: relative;
21   width: 100%;
22   height: 60mm;
23   display: block;
24   background-color: #272e27;
25   border-bottom: 2mm solid #a4825a;
26 }
27
28 #headerInvoiceNumber {
29 }
```



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Calendar | Salesforce Lightning Experience | Salesforce

ForceTraining

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

EXPINV-0016

EXPENSE INVOICE

ForceTraining
32 Guild Street, London, EC2N 3RN
United Kingdom
forcetraining.com

Bill To
ForceTraining Ltd
32 Guild Street
LONDON
UK
EC2N 3RN

Mail To
ForceTraining Ltd
32 Guild Street
LONDON
UK
EC2N 3RN

Invoice Number EXPINV-0016
Invoice Date
Due Date
Course Location London
Course Start Date 31/03/2021
Course End Date 03/04/2021
Instructor David Cooper

Date	Expense Title	Expense Type	Unit Cost	Quantity	Amount
05/04/2021	Car	Car Hire	£1.00	2	£2.00
05/04/2021	Hotel	Accommodation	£5.00	1	£5.00
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07/04/2021	Hotel	Accommodation	£5.00	1	£5.00

Sub Total £17.00
VAT 20%

Invoice Total £20.40

Payment Reference EXPINV-0016
Consultant Name David Cooper
Account Name David Cooper
IBAN
SWIFT

Bank Name
Bank Address

Also works on mobile

vodafone UK 08:20 99%

Menu

App Launcher

All Items

Instructor

Events

Scheduled Courses

Courses

Instructor Invoices

Certifications

Chatter

Accounts

Events Scheduled Cou... Courses Instructor In...

Menu

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Calendar | Salesforce

Lightning Experience | Salesforce

ForceTraining

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

EXPINV-0016

EXPENSE INVOICE

ForceTraining
32 Guild Street, London, EC2N 3RN
United Kingdom
forcetraining.com

Bill To	Mail To	Invoice Number			
ForceTraining Ltd 32 Guild Street LONDON UK EC2N 3RN	ForceTraining Ltd 32 Guild Street LONDON UK EC2N 3RN	EXPINV-0016			
Invoice Date	Due Date	Course Location			
		London			
Course Start Date	Course End Date	Instructor			
31/03/2021	03/04/2021	David Cooper			
Date	Expense Title	Expense Type	Unit Cost	Quantity	Amount
05/04/2021	Car	Car Hire	£1.00	2	£2.00
05/04/2021	Hotel	Accommodation	£5.00	1	£5.00
06/04/2021	Hotel	Accommodation	£5.00	1	£5.00
07/04/2021	Hotel	Accommodation	£5.00	1	£5.00
			Sub Total	£17.00	
			VAT	20%	
Invoice Total £20.40					
Payment Reference EXPINV-0016			Bank Name		
Consultant Name David Cooper			Bank Address		
Account Name David Cooper					
IBAN					
SWIFT					

Many ways to improve and extend functionality

End date selected (Different week) #

Start and End Date

Start Date	End Date					
06/24/2020	06/30/2020					
< June > 2020 ▼						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
Today						

<div style="height:25rem">
<div class="slds-form slds-form_compound">
<fieldset class="slds-form-element">

Today - In selected range #

Start and End Date

Start Date	End Date					
06/24/2020	06/30/2020					
< June > 2020 ▼						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
Today						



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Calendar | Salesforce Lightning Experience | Salesforce

ForceTraining

Instructor Calendar Scheduled Courses Instructor Invoices Certifications Chatter Accounts Reports Dashboards

EXPINV-0016

EXPENSE INVOICE

 ForceTraining
32 Guild Street, London, EC2N 3RN
United Kingdom
forcetraining.com

Bill To ForceTraining Ltd
32 Guild Street
LONDON
UK
EC2N 3RN

Mail To ForceTraining Ltd
32 Guild Street
LONDON
UK
EC2N 3RN

Invoice Number EXPINV-0016
Invoice Date
Due Date
Course Location London
Course Start Date 31/03/2021
Course End Date 03/04/2021
Instructor David Cooper

Date	Expense Title	Expense Type	Unit Cost	Quantity	Amount
05/04/2021	Car	Car Hire	£1.00	2	£2.00
05/04/2021	Hotel	Accommodation	£5.00	1	£5.00
06/04/2021	Hotel	Accommodation	£5.00	1	£5.00
07/04/2021	Hotel	Accommodation	£5.00	1	£5.00

Sub Total £17.00
VAT 20%

Invoice Total £20.40

Payment Reference EXPINV-0016
Consultant Name David Cooper
Account Name David Cooper
IBAN
SWIFT

Bank Name
Bank Address

Any Questions?

Thank you for listening

 ForceTraining

Many ways to improve and extend functionality