
TripAdvisor E-Management

-SalesForce

Hardware Required:

System with advance configuration **Software**

Required:

Salesforce Platform

System Required:

Good Configuration

The TripAdvisor E-Management app with the salesforce works with your all-in-one travel companion, empowering you to plan, book, and make the most of the trips. Discover millions of reviews and insights shared by fellow travelers, helping you make informed decisions for every aspect of your journey. Whether you're seeking the perfect hotel, top-rated restaurants, must-visit attractions, or the best travel deals, TripAdvisor has you covered

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1.Create Object

Hotel Object is created to ensure that when a new Food Option is added or updated with the necessary information.

The screenshot shows the Salesforce Setup interface for the 'Hotel' object. The top navigation bar includes the Salesforce logo, a search bar labeled 'Search Setup', and various utility icons. Below the navigation bar, the 'Setup' menu is open, showing 'Object Manager' as the selected option. The main content area is titled 'Hotel' and contains a left-hand sidebar with a list of configuration options: 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, List View Button Layout, Restriction Rules, and Scoping Rules. The 'Details' section is currently selected and expanded, showing a list of fields with their API names and labels. The fields are: Description (API Name: Hotel__c, Label: Custom), Singular Label (API Name: Hotel, Label: Hotel), Plural Label (API Name: Hotels, Label: Hotels), Enable Reports (checked), Track Activities (checked), Track Field History (checked), Deployment Status (Deployed), Help Settings, and Standard salesforce.com Help Window. The 'Edit' and 'Delete' buttons are visible in the top right corner of the details section.

Field Name	API Name	Label
Description	Hotel__c	Custom
Singular Label	Hotel	Hotel
Plural Label	Hotels	Hotels

Enable Reports: ☒
Track Activities: ☒
Track Field History: ☒
Deployment Status: Deployed
Help Settings: Standard salesforce.com Help Window

2.Create Fields for Hotel Object

Sr. No.	Field Name	Data Type
1	TotalFoodOptions	Number
2	Date	Date

SETUP > OBJECT MANAGER

Hotel

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

List View Button Layout

Restriction Rules

Scoping Rules

Fields & Relationships

6 Items, Sorted by Field Label

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Date	Date_c	Date		
Hotel Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
TotalFoodOptions	TotalFoodOptions_c	Number(18, 0)		

3.Create Fields for Food Option

Sr. No.	Field Name	Data Type
1	Name	Text
2	Hotel	Hotel(Lookup)
3	Food Amount	Currency

Setup
 Home
 Object Manager

SETUP > OBJECT MANAGER
Food Option

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
 List View Button Layout
 Restriction Rules
 Scoping Rules

Fields & Relationships
 7 Items, Sorted by Field Label

 New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Created By	CreatedById	Lookup(User)			
Food Amount	Food_Amount__c	Currency(18, 0)			
Food Option Name	Name	Auto Number		✓	
Hotel	Hotel__c	Lookup(Hotel)		✓	
Last Modified By	LastModifiedById	Lookup(User)			
Name	Name__c	Text(25)			
Owner	OwnerId	Lookup(User, Group)		✓	

4.Create Fields in the Flight Object

Sr. No.	Field Name	Data Type
1	Name	Date/Time
2	DepartureDateTime	Hotel(Lookup)

Setup
 Home
 Object Manager

SETUP > OBJECT MANAGER
Flight

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
 List View Button Layout
 Restriction Rules
 Scoping Rules

Details

Edit Delete

Description
 API Name
Flight__c
Custom
✓
Singular Label
Flight
Plural Label
Flights

Enable Reports
✓
Track Activities
Track Field History
Deployment Status
Deployed
Help Settings
Standard salesforce.com Help Window

5. Create Fields in the Customer Object

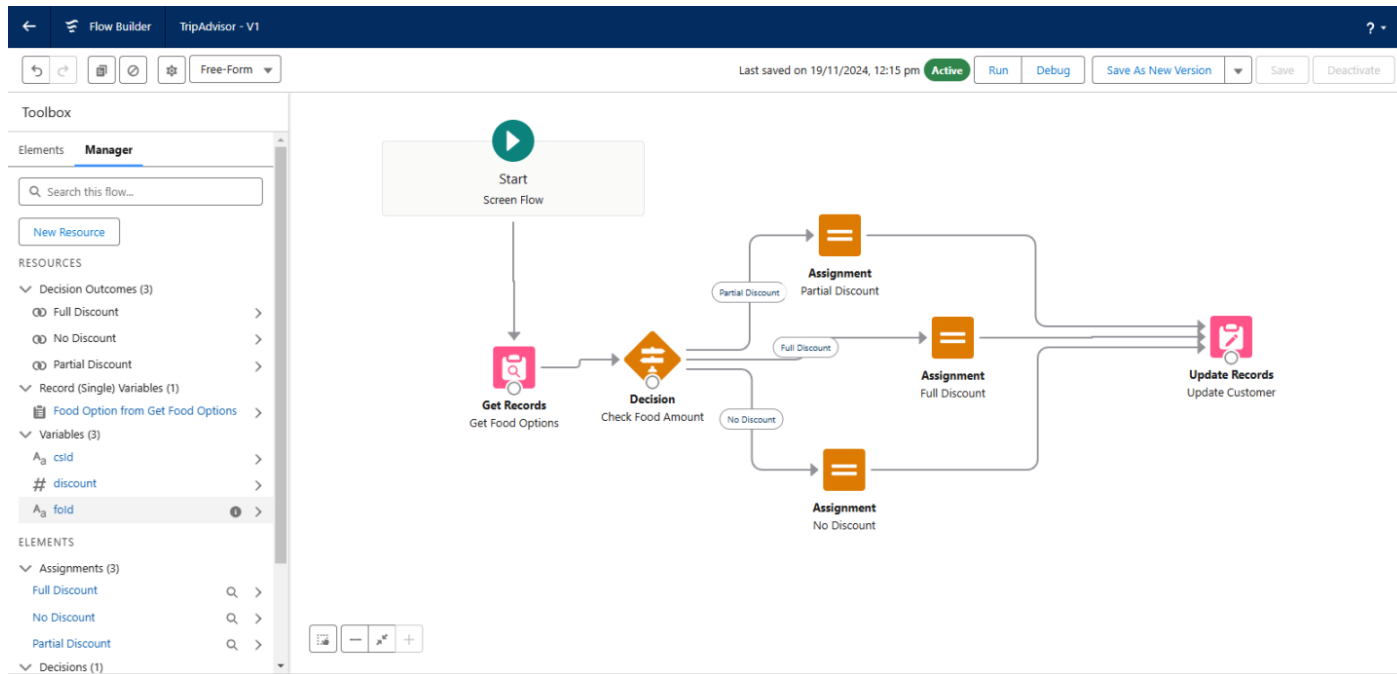
Sr. No.	Field Name	Data Type
1	Customer Name	Name
2	Discount Amount	Formula (Currency)
3	Discount Percent	Percentage

The screenshot shows the Salesforce Setup interface. At the top, there's a search bar and navigation tabs for Setup, Home, and Object Manager. The main content area is titled 'Customer' and shows the 'Fields & Relationships' section. A sidebar on the left lists various setup options like Details, Fields & Relationships, Page Layouts, etc. The main table lists 7 fields for the Customer object, sorted by Field Label. The fields are: Created By, Customer Name, Discount Amount, Discount Percent, Last Modified By, and Owner. Each row shows the field label, field name, data type, controlling field, and indexed status.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Customer Name	Customer_Name__c	Text(25)		
Customer Name	Name	Text(80)		✓
Discount Amount	Discount_Amount__c	Formula (Currency)		
Discount Percent	Discount_Percent__c	Percent(18, 0)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓

6. Create Flow

Create the Flow for the discount for customer when the Amount is greater than 3000 some Amount of Discounts will be there if the Amount is between 1500 to 3000 so Some Amount of Discount will be there for them.



7.Apex Triggers

Scenario: In the Hotel you have to ensure that when a new Food Option is added or updated, the corresponding Hotel's information is updated accordingly. For example, you might want to maintain a total count of food options for each hotel. To manage the things properly with perspective to the Hotel things should be clearly manageable for making the food options available with respect to hotels.

The screenshot shows an IDE with two tabs: `FoodOptionTriggerHandler.apxc` and `FoodOptionTrigger.apxt`. The `FoodOptionTrigger.apxt` tab is active, displaying the following Apex code:

```

1 trigger FoodOptionTrigger on Food_Option__c (after insert, after update, after delete) {
2
3     // List to hold new and old food options for comparison
4     List<Food_Option__c> newFoodOptions = new List<Food_Option__c>();
5     List<Food_Option__c> oldFoodOptions = new List<Food_Option__c>();
6
7     // Depending on the DML operation, add appropriate food options to the lists
8     if (Trigger.isInsert || Trigger.isUpdate) {
9         newFoodOptions = Trigger.new;
10    }
11
12    if (Trigger.isUpdate || Trigger.isDelete) {
13        oldFoodOptions = Trigger.old;
14    }
15
16    // Call the handler method to update hotel information
17    FoodOptionTriggerHandler.updateHotelInformation(newFoodOptions, oldFoodOptions, Trigger.operationType);
18 }

```

Below the code editor is a table of execution logs. The table has columns: User, Application, Operation, Time, Status, Read, and Size. The logs show six successful executions of the `ApexTestHandler` operation.

User	Application	Operation	Time	Status	Read	Size
Bharathvaj S	Unknown	ApexTestHandler	11/20/2024, 11:13:21 AM	Success	Unread	946 bytes
Bharathvaj S	Unknown	ApexTestHandler	11/20/2024, 11:13:17 AM	Success	Unread	945 bytes
Bharathvaj S	Unknown	ApexTestHandler	11/20/2024, 11:13:13 AM	Success	Unread	946 bytes
Bharathvaj S	Unknown	ApexTestHandler	11/20/2024, 11:13:08 AM	Success	Unread	943 bytes
Bharathvaj S	Unknown	ApexTestHandler	11/20/2024, 11:13:02 AM	Success	Unread	946 bytes
Bharathvaj S	Unknown	ApexTestHandler	11/20/2024, 10:26:50 AM	Success	Unread	945 bytes

At the bottom of the logs, there is a filter button and a link to filter the log list.

Apex Trigger:(code)

1.Apex Trigger With Handler

```

public class FoodOptionTriggerHandler {
    // Method to update hotel information based on food options
    public static void updateHotelInformation(List<Food_Option__c>
newFoodOptions, List<Food_Option__c> oldFoodOptions, TriggerOperation
operation) {
        Set<Id> hotelIdsToUpdate = new Set<Id>();

        // Collect unique Hotel Ids affected by food options changes
        for (Food_Option__c foodOption : newFoodOptions) {
            hotelIdsToUpdate.add(foodOption.Hotel__c);
        }

        // Update hotel information based on food options
        List<Hotel__c> hotelsToUpdate = [SELECT Id, Name,
TotalFoodOptions__c FROM Hotel__c WHERE Id IN :hotelIdsToUpdate];

```

```

        for (Hotel__c hotel : hotelsToUpdate) {
            // Recalculate total food options count
            Integer totalFoodOptions = [SELECT COUNT() FROM Food_Option__c
WHERE Hotel__c = :hotel.Id];
            hotel.TotalFoodOptions__c = totalFoodOptions;
        }

        // Update hotels with new total food options count
        update hotelsToUpdate;
    }

}

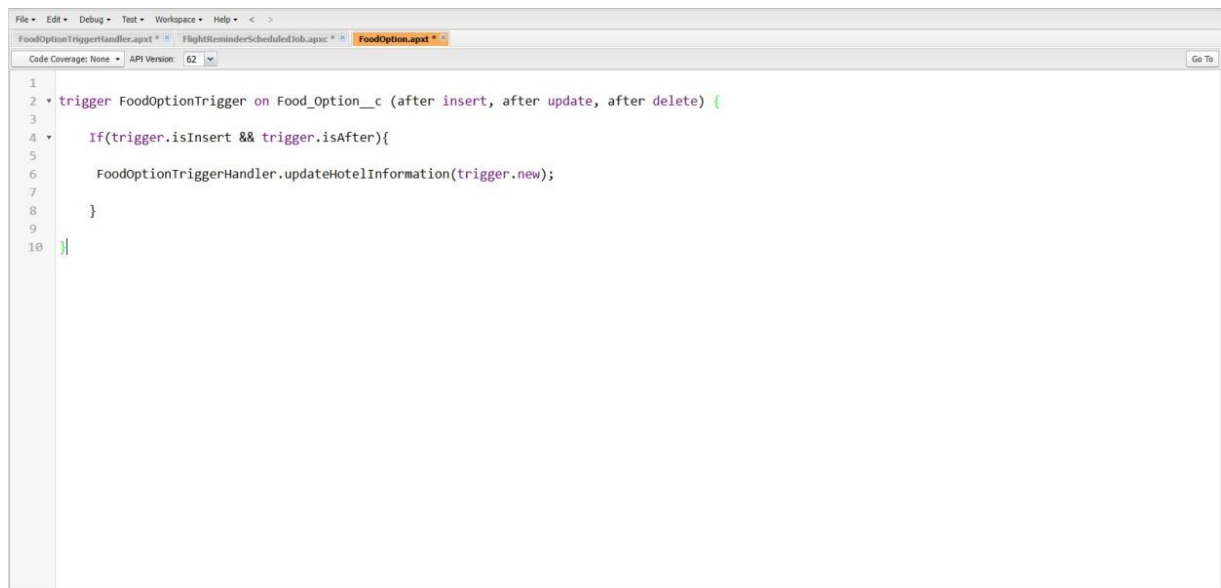
```

2.Trigger

```

trigger FoodOptionTrigger on Food_Option__c (after insert, after update, after
delete) {
    If(trigger.isInsert && trigger.isAfter){
        FoodOptionTriggerHandler.updateHotelInformation(trigger.new);
    }
}

```

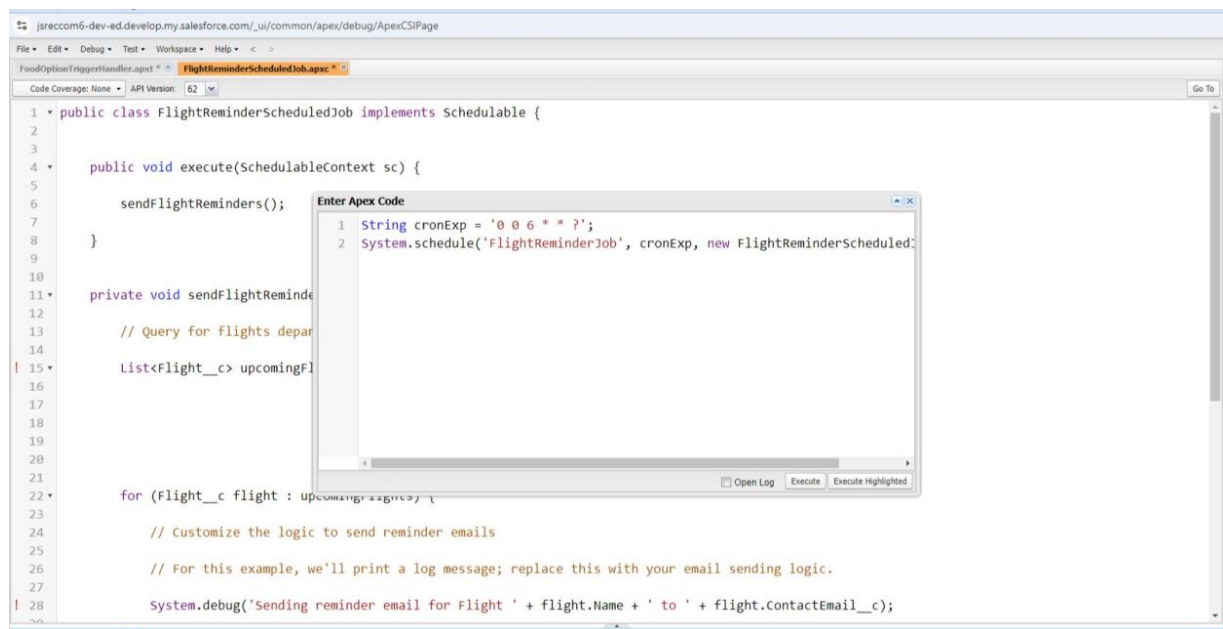


8.Apex Schedule

Create the Reminder mail for the customer who has booked the flight according to that booking set the Apex schedule so mail will be sent prior to 24hrs.
Note: Please create the required field for Scheduled Apex Code

Create the Apex code in an anonymous Window to execute the Apex Code

```
// Schedule the job to run every day at a specific time  
(e.g., 6 AM)  
String cronExp = '0 0 6 * * ?';  
System.schedule('FlightReminderJob', cronExp, new  
FlightReminderScheduledJob());
```



Apex Schedule Class Solution

```
public class FlightReminderScheduledJob implements Schedulable {
    public void execute(SchedulableContext sc) {
        sendFlightReminders();
    }
    private void sendFlightReminders() {
        List<Flight__c> upcomingFlights = [SELECT Id, Name,
        DepartureDateTime__c FROM Flight__c
        WHERE DepartureDateTime__c >= :DateTime.now()
        AND DepartureDateTime__c <=
        :DateTime.now().addDays(1)];
        for (Flight__c flight : upcomingFlights) {
            System.debug('Sending reminder email for Flight ' +
            flight.Name + ' to ' + flight.ContactEmail__c);
            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
            email.setToAddresses(new List<String>{ flight.ContactEmail__c
            });
            email.setSubject('Flight Reminder: ' +
            flight.Name);

            email.setPlainTextBody('This is a reminder for your upcoming flight ' +
            flight.Name +
            ' departing on ' +
            flight.DepartureDateTime__c);
            Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{
            email });
        }
    }
}
```

```

    }
}

1 * public class FlightRemindersScheduledJob implements Schedulable {
2
3
4 *   public void execute(SchedulableContext sc) {
5
6       sendFlightReminders();
7
8   }
9
10
11 *   private void sendFlightReminders() {
12
13       // Query for flights departing within the next 24 hours
14
15 *   List<Flight__c> upcomingFlights = [SELECT Id, Name, DepartureDateTime__c FROM Flight__c
16
17       WHERE DepartureDateTime__c >= :DateTime.now()
18
19       AND DepartureDateTime__c <= :DateTime.now().addDays(1)];
20
21
22 *   for (Flight__c flight : upcomingFlights) {
23
24       // Customize the logic to send reminder emails
25
26       // For this example, we'll print a log message; replace this with your email sending logic.
27
28       System.debug('Sending reminder email for Flight ' + flight.Name + ' to ' + flight.ContactEmail__c);
29
30   }
}

```

DASHBOARD



New Hotels Report

Hotel: Hotel Name ↑
Anna Hotel
Chan Hotel
DR Hotel
Meals Hotel
MS Hotel
Sam Hotel
Senthil Mess

[View Report \(New Hotels Report\)](#)

New Flights Report

Flight: Flight Name ↑
FL-0001
FL-0002
FL-0003
FL-0004
FL-0005
FL-0006
FL-0007

[View Report \(New Flights Report\)](#)

New Food Options Report

Food Option: Food Option Name ↑
FO - 0001
FO - 0002
FO - 0003
FO - 0004
FO - 0005

[View Report \(New Food Options Report\)](#)

New Customers Report

Customer: Customer Name ↑
Arun
bharath
Brook
Brooky bark
Coast