





Project Title: TripAdvisor E Management

College Name: MAILAM ENGINEERING COLLEGE

Code: 4216

Department of Computer Science and Engineering

Team Leader:

Name: SHARMILA DEVI K Reg No: 421622104131

Team Members:

Name: SWARNALATHA M Reg No: 421622104139

Name: RESHMA G Reg No: 421622104118

Name: SHARMILA DEVI R Reg No: 421622104132

Registered Email Id: kannangokul549@gmail.com

TrailheadUrl: https://mailamengineeringcolleg-14d-dev-

ed.develop.lightning.force.com/lightning/setup/SetupOneHome/home

TripAdvisor E-Management



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.
- · Acceptance Criteria & Solution
- As the Salesforce User we have to manage the data for the Hotels, Flights, and Food Options for this we have to create some automation for simplification.



• 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.

Also there is automation for the customer benefits if the there buying amount is with respect to some amount then they will get some discounts on their bill

- For the flights there schedule process being involved where the customer who has booked the flight will get the reminder mail alert for knowing proper timing of the flight before 24 hrs it's important to manage the in a good way.
- The system should provide confirmation or notification to the user upon successful sending of the email.
- Solution: For the Above requirements of TripAdvisor we have created the solutions by

Customer & Flights. For the Automation we have used here a flow and triggers and for scheduling the email alerts we







have created the Apex Schedulable class so email alerts will be created.

- · Create Object
- Hotel Object is created to ensure that when a new Food Option is added or updated with the necessary information
- Enter label: Hotel

Plural Name : Hotels

• Data Type : (text)

· Field Name: Hotel Name

· Click Allow Reports

· Allow Search? Save

- With Above References Create following Object
- Food Option? Data Type? Auto Number? Format? FO {0000}
- Flight? Data Type? Auto Number? Format? FL-{0000}
- · Customer? Text? Field Name? Customer Name



Smart Internz Create Fields for Hotel Object

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

Create Fields For Food Option

Create Fields in the Flight Object

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

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



Create Flow





Create the Flow for the discount for customer when the Amount is greater than

3000 some 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

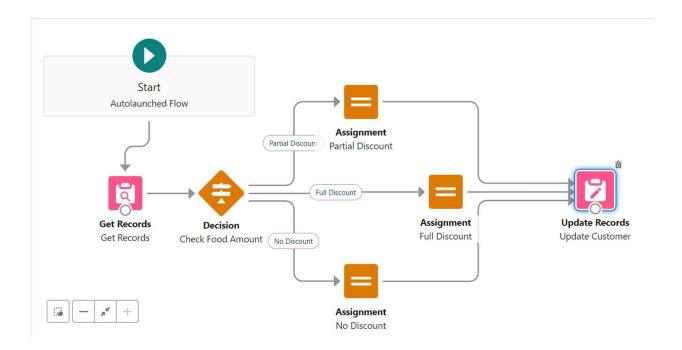
Flow Procedure

Create 3 variable:

Variable > Api name > foId > text > Available for Input

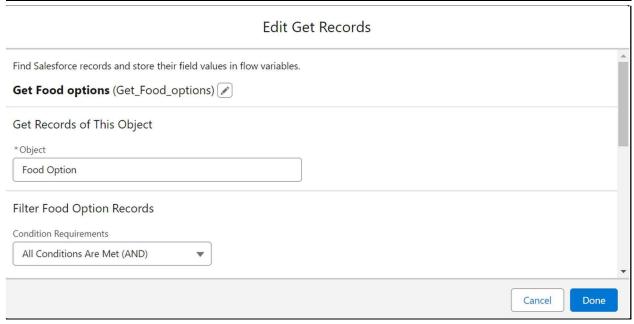
Variable > Api name > csId > text > Available for Input

Variable > Api name > discount > Number



Flow Steps: Get Records

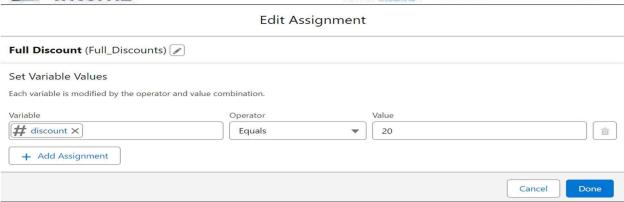


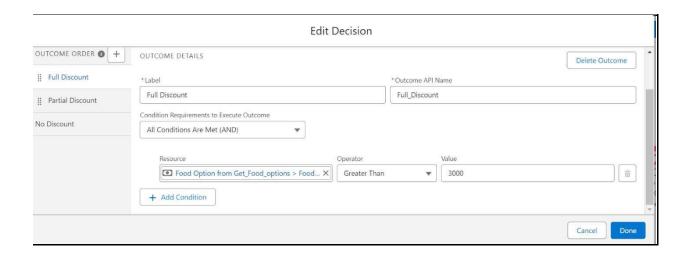


2. Decision Element: Create 2 Outcomes



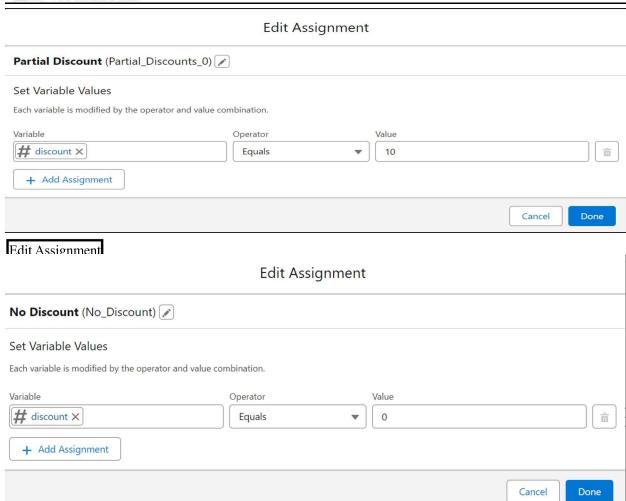






Take the 3 Assignments > Full Discount, Partial Discount & No Discount



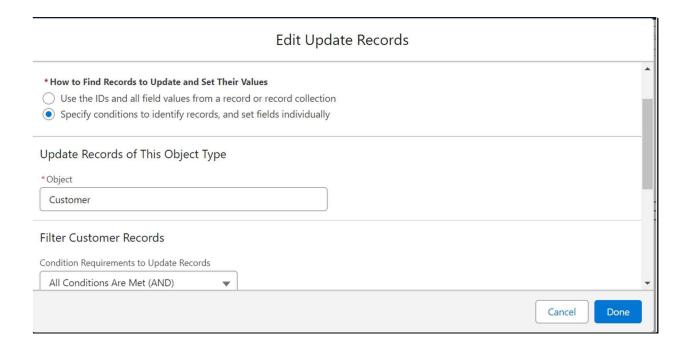


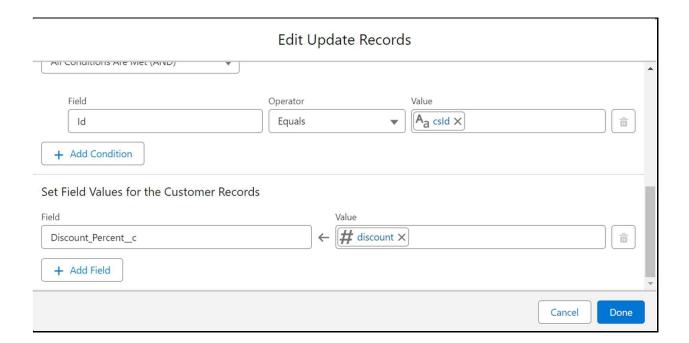
Update Record Element











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

Apex trigger With Handler

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 =
```

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

```
1 * public class FoodOptionTriggerHandler {
2
        // Method to update hotel information based on food options
3 🔻
       public static void updateHotelInformation(List<Food_Option_c> newFoodOptions, List<Food_Option_c> oldFoodOptions, TriggerOperation operation) {
4
           Set<Id> hotelIdsToUpdate = new Set<Id>();
5
6
           // Collect unique Hotel Ids affected by food options changes
7 🔻
            for (Food_Option_c foodOption : newFoodOptions) {
8
               hotelIdsToUpdate.add(foodOption.Hotel__c);
9
10
            // Update hotel information based on food options
11
12
           List<Hotel_c> hotelsToUpdate = [SELECT Id, Name, TotalFoodOptions_c FROM Hotel_c WHERE Id IN :hotelIdsToUpdate];
13
14 ▼
           for (Hotel__c hotel : hotelsToUpdate) {
15
                // Recalculate total food options count
               Integer totalFoodOptions = [SELECT COUNT() FROM Food_Option__c WHERE Hotel__c = :hotel.Id];
16
17
               hotel.TotalFoodOptions_c = totalFoodOptions;
18
           }
19
            // Update hotels with new total food options count
20
21
            update hotelsToUpdate;
       }
22
23
24
25 }
```

Trigger



trigger FoodOptionTrigger on
Food_Option__c (after insert,
after update, after delete) {





```
after update, after delete) {

If(trigger.isInsert && trigger.isAfter) {

FoodOptionTriggerHandler.updateHotelInformation(trigger.new);

}
}
```

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

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

```
Apex Schedule Class Solution
                         public class
                         FlightReminderScheduled
                         Job implements
                         Schedulable {
                         public void
                         execute(SchedulableCont
                         ext sc) {
                         sendFlightReminders();
                         private void
                         sendFlightReminders() {
                         // Query for flights
                         departing within the next
                         24 hours
                         List<Flight c>
                         upcomingFlights =
                         [SELECT
Id, Name, DepartureDateTime_c FROM Flight_c
                         WHERE
DepartureDateTime c >= :DateTime.now()
```







AND

DepartureDateTime__c
<= :DateTime.now().addDays(1)];</pre>

Ш

for (Flight__c flight:
 upcomingFlights) {

 // Customize the logic to
 send reminder emails

 // For this example, we'll
 print a log message;
 replace this with your
 email sending logic.

 System.debug('Sending
 reminder email for Flight '
 + flight.Name + ' to ' +
 flight.ContactEmail__c);

• // Example: Send email using

Messaging.SingleEmailMessage

Messaging.SingleEmailM essage email = new

Messaging.SingleEmailMessage();

email.setToAddresses(ne w 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(ne
List<Messaging.SingleEmailMessage>{ email });
```







```
1 • public class FlightReminderScheduledJob implements Schedulable {
        public void execute(SchedulableContext sc) {
            sendFlightReminders();
        private void sendFlightReminders() {
             // Query for flights departing within the next 24 hours
            List<Flight_c> upcomingFlights = [SELECT Id, Name, DepartureDateTime_c FROM Flight_c
10
                                                 WHERE DepartureDateTime__c >= :DateTime.now()
                                                AND DepartureDateTime_c <= :DateTime.now().addDays(1)];
            for (Flight_c flight : upcomingFlights) {
14
15
16
17
                 // Customize the logic to send reminder emails
                // For this example, we'll print a log message; replace this with your email sending logic.

System.debug('Sending reminder email for Flight ' + flight.Name + ' to ' + flight.ContactEmail_
18
19
20
21
22
23
24
25
26
                 // Example: Send email using Messaging.SingleEmailMessage
                Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{ email });
```

The

FlightReminderScheduled Job class implements the Schedulable interface, and the execute method is where you put the logic to send reminder emails.

The send Smart Internz Flight Reminders method queries for flights departing within the next 24 hours. You can customize the query based on your specific requirements.

> 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('FlightR eminderJob', cronExp, new

FlightReminderScheduledJob());

```
Enter Apex Code
 1 // Schedule the job to run every day at a specific time (e.g., 6
  2 String cronExp = '0 0 6 * * ?';
  3 System.schedule('FlightReminderJob', cronExp, new FlightReminder
```









Conclusion:

We have Created this Customization process for the proper flow of the business if TripAdvisor where they can easily access the Hotel requirement then food options and also the ease for the customers with the preferable discount with their Amount limits this process helps to save time from multiple manual processes.