





## **Project title:** Salesforce Developer

Name: Shalini.N

Sureha.K

Priyadharshini.S

Sandhiya.S

Registered Email id: s6777019@gmail.com







## **TripAdvisor E-Management**

#### 1. PROJECT OVERVIEW:

A Tripadvisor e-management project aims to streamline online operations for hospitality and tourism businesses by enhancing their visibility, reviews, and engagement on Tripadvisor. The project typically focuses on optimizing listings, responding to customer reviews, and utilizing data analytics to monitor customer feedback and competitor performance. E-management solutions can include training staff to respond effectively, leveraging Tripadvisor's promotional tools, and ensuring content accuracy. By actively managing Tripadvisor profiles, businesses can improve their reputation, increase customer satisfaction, and attract more visitors, ultimately driving revenue growth. The project aligns business strategies with Tripadvisor's platform capabilities to create a stronger digital presence.

#### 2. OBJECTIVES

- ✓ Goal: Enhance online reputation
- ✓ **Outcome**: Higher review ratings and improved brand perception
- ✓ Goal: Optimize Tripadvisor listings
- ✓ Outcome: Accurate, engaging content that attracts more views and bookings
- ✓ **Goal:** Actively respond to reviews
- ✓ **Outcome**: Improved customer satisfaction and trust in brand responsiveness
- ✓ Goal: Boost visibility and ranking
- ✓ Outcome: Increased profile visits and bookings through better placement
- ✓ **Goal**: Use data analytics for insights
- ✓ **Outcome**: Identified trends and actionable insights for service improvements







# 3. SALESFORCE KEY FEATURES AND CONCEPTS UTILIZED

The main functionalities and concepts applied within the Salesforce project:

- > Service Cloud: Manages and responds to Tripadvisor reviews efficiently.
- ➤ Marketing Cloud: Personalizes promotional campaigns to boost visibility.
- ➤ Customer 360: Provides a unified view of each customer for tailored interactions.
- > Analytics & AI Insights: Monitors sentiment and identifies trends in reviews and feedback.
- ➤ Workflow Automation: Streamlines listing updates and repetitive tasks.
- ➤ Collaboration Tools: Enhances internal communication and team efficiency.

These Salesforce tools help businesses optimize their Tripadvisor presence, engage customers more effectively, and drive improved satisfaction and revenue.

#### 4. DETAILED STEPS TO SOLUTION DESIGN

## **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 creating the custom objects and Fields the Custom Objects that are created are Hotels, Food Options, 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.

## **Activity 1 : Create Object**

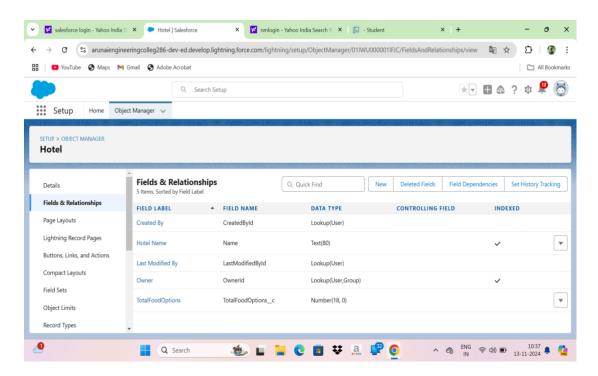
→ Hotel Object is created to ensure that when a new Food Option is added or updated with the necessary information

Enter label: Hotel
 Plural Name: Hotels
 Data Type: (text)

4. Field Name: Hotel Name

5. Click Allow Reports

6. Allow Search? Save



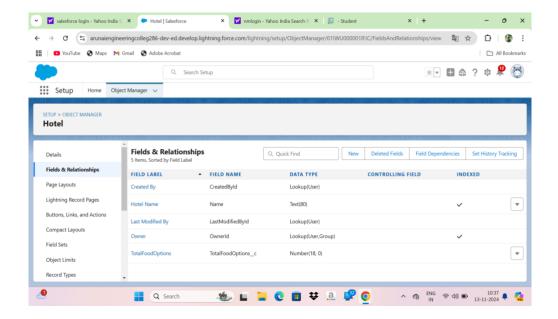
**Activity-2 : Create Fields for Hotel Object** 

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



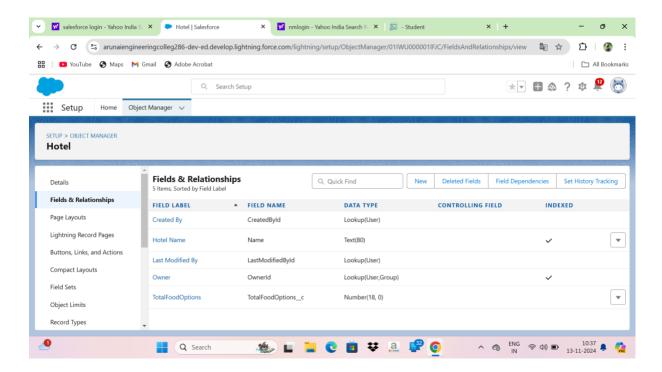






## **Activity-3: Create Fields For Food Option**

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



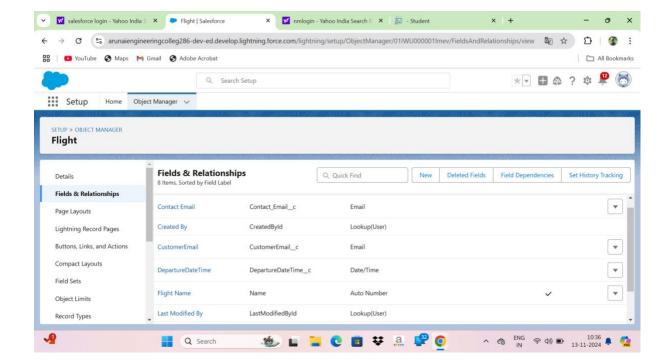






## **Activity-3: Create Fields in the Flight Object**

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



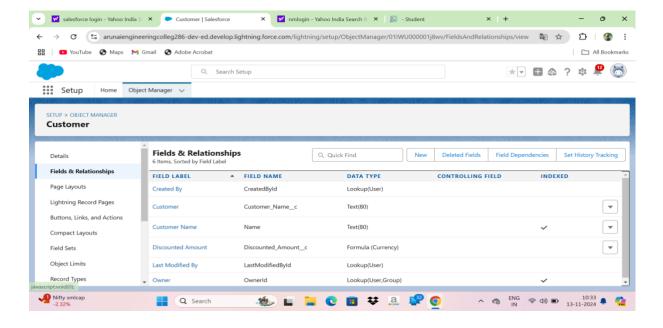
#### **Activity-4: Create Fields in the Customer Object**

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

#### **Activity-1: Flow Procedure**

#### Create 3 variable:

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

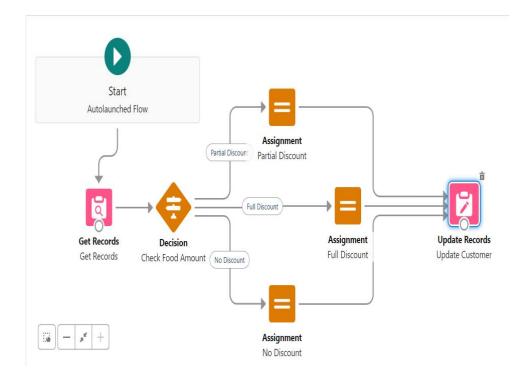
Variable > Api name > csId > text > Available for Input

Variable > Api name > discount > Number









#### **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

## **Activity-1: 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 = :hotel.Id];
hotel.TotalFoodOptions__c = totalFoodOptions;
}

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

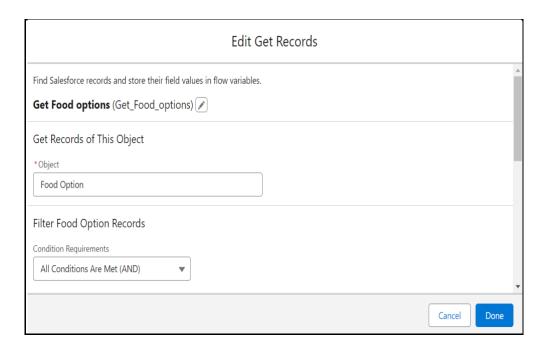
```
1 v public class FoodOptionTriggerHandler {
       // Method to update hotel information based on food options
      public static void updateHotelInformation(List<Food_Option_c> newFoodOptions, List<Food_Option_c> oldFoodOptions, TriggerOperation operation) {
           Set<Id> hotelIdsToUpdate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



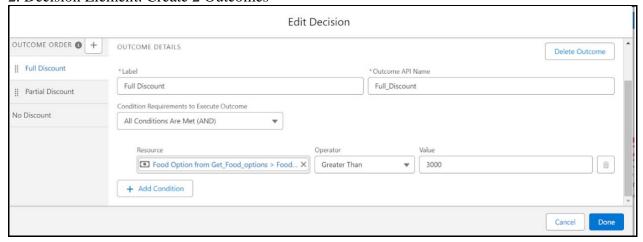




trigger FoodOptionTrigger on Food\_Option\_\_c (after insert, after update, after
delete) {
 If(trigger.isInsert && trigger.isAfter){
 FoodOptionTriggerHandler.updateHotelInformation(trigger.new);
 }
}



2. Decision Element: Create 2 Outcomes

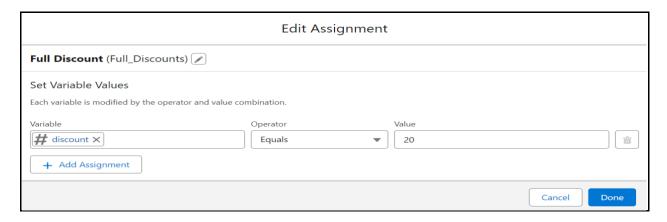


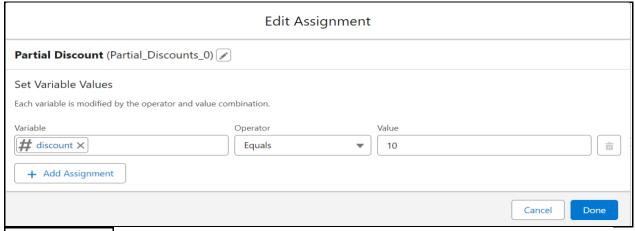
Take the 3 Assignments > Full Discount, Partial Discount & No Discount



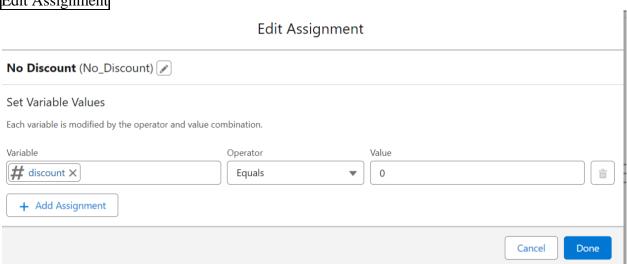








Edit Assignment

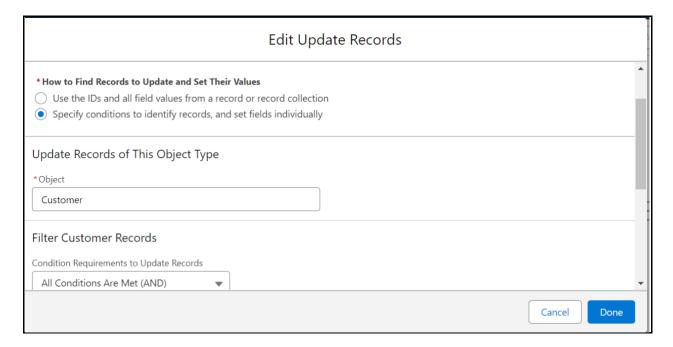


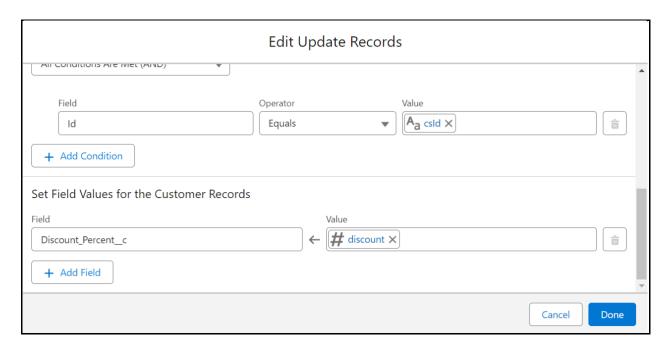
**Update Record Element** 











#### **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

#### **Activity-1: Apex trigger With Handler**

Apex Trigger With Handler

```
public class FoodOptionTriggerHandler {
// Method to update hotel information based on food options
public static void updateHoteIInformation(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.ld];
hotel.TotalFoodOptions__c = totalFoodOptions;
}
// Update hotels with new total food options count
update hotelsToUpdate;
}
}
```







```
v 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);
10
11
            // 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) {
15
                // Recalculate total food options count
16
                Integer totalFoodOptions = [SELECT COUNT() FROM Food_Option_c WHERE Hotel_c = :hotel.Id];
17
18
19
20
                hotel.TotalFoodOptions_c = totalFoodOptions;
            // Update hotels with new total food options count
            update hotelsToUpdate;
22
23
24
25 }
```

#### Trigger

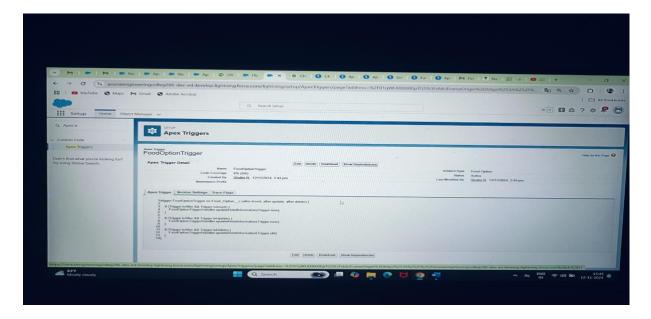
```
trigger FoodOptionTrigger on Food_Option__c (after insert, after update, after delete) {
    If(trigger.isInsert && trigger.isAfter){
        FoodOptionTriggerHandler.updateHotelInformation(trigger.new);
    }
}
```

```
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

#### **Activity-1: Apex Schedule Class Solution**

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
```







```
WHERE DepartureDateTime__c >=
:DateTime.now()
                         AND DepartureDateTime__c <=
:DateTime.now().addDays(1)];
    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.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 });
}
```







```
Code Coverage: None • API Version: 59 •
  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()
                                                 \label{eq:and_problem} \mbox{AND DepartureDateTime} \underline{\mbox{ c <= :DateTime.now().addDays(1)];}}
            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.SingleEmailMessage email = new Messaging.SingleEmailMessage();
                email.setToAddresses(new List<String>{ flight.ContactEmail_c });
                email.setSubject('Flight Reminder: ' + flight.Name);
                Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{ email });
27 }
```

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

The sendFlightReminders 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('FlightReminderJob', cronExp, new FlightReminderScheduledJob());

```
Enter Apex Code

1  // Schedule the job to run every day at a specific time (e.g., 6 AM)
2  String cronExp = '0 0 6 * * ?';
3  System.schedule('FlightReminderJob', cronExp, new FlightReminderScheduledJob());
4
```







## **Conclusion:**

In conclusion, TripAdvisor's e-management practices demonstrate a strong alignment with user-centric digital strategies that effectively build engagement and trust. The platform's emphasis on transparency through detailed user reviews and ratings has fostered a community-driven approach, establishing TripAdvisor as a reliable source for travel planning. Its use of advanced technologies, like AI and real-time analytics, allows for personalized recommendations and enhanced user experiences, setting it apart in the travel industry.

However, challenges such as addressing fake reviews and further improving mobile usability highlight areas for refinement to boost reliability and ease of use. Moving forward, TripAdvisor's focus on evolving technologies and sustainable travel can help it stay competitive and meet shifting traveler needs. Overall, its e-management success exemplifies how digital strategies, continuous innovation, and customer trust can create significant value, securing TripAdvisor's position as a market leader in travel services.