Project Documentation: CRM Application for Laptop Rentals

Category: Salesforce

Skills Required:

Salesforce Developer

Project Overview:

The CRM Application for Laptop Rentals is designed to streamline the process of renting laptops to customers. The application leverages Salesforce's powerful CRM capabilities to enhance customer experience, optimize store operations, and improve overall efficiency. The application also includes features to effectively communicate with potential customers through email.

Features and Functionalities:

- Total Laptops Management: Track and manage the inventory of laptops available for rent.
- Consumer Management: Manage customer details and interactions.
- Laptop Booking Process: Handle laptop booking requests and manage bookings.
- Billing Process: Manage billing and payment processes for laptop rentals.
- **User Roles and Profiles**: Define roles like Owner and Agent to manage different levels of access within the application.
- Validation Rules: Ensure data accuracy and completeness.
- Automation via Flows and Apex: Automate key processes such as laptop distribution using Salesforce Flows and Apex triggers.
- Reports and Dashboards: Generate insightful reports and visualize data on the dashboard.

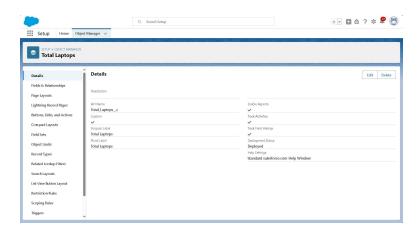
Detailed Setup Instructions:

1. Creating Custom Objects

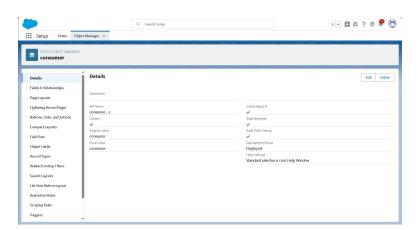
- Navigate to Setup: Go to the Setup page and click on Object Manager.
- Create Custom Object: Total Laptops
 - Click on Create > Custom Object.

- Enter the following details:
 - o **Label Name**: Total Laptops
 - Plural Label Name: Total Laptops
 - o **Record Name Label**: Total Laptops
 - Data Type: Text
- Enable the following options:
 - Allow Reports
 - Allow Search
 - Track Field History
- Click Save.
- Repeat for the following Custom Objects:
 - Consumer
 - **■** Laptop Booking
 - Billing Process

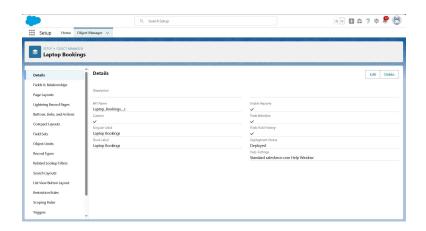
Total Laptops Object:



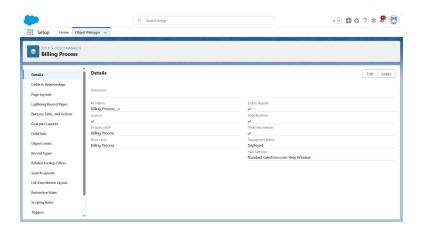
Consumer Object:



Laptop Booking Object:



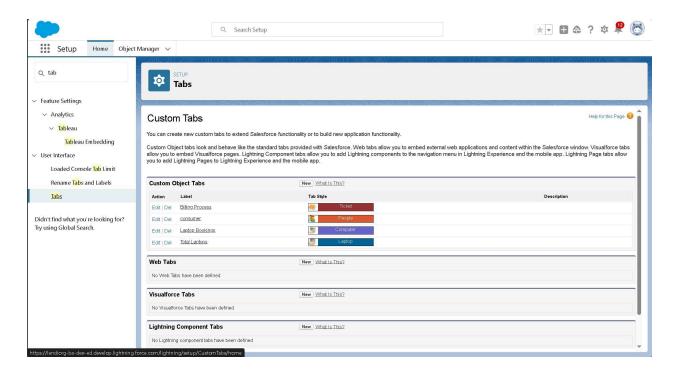
Billing Process Object:



2. Creating Tabs

- Navigate to Setup: Type Tabs in the Quick Find bar and select Tabs.
- Create a New Tab:
 - Click on **New** under Custom Object Tabs.
 - Select **Object**: Total Laptops
 - Choose a **Tab Style**.
 - Click **Next** and keep the default settings on the profiles page.
 - Uncheck Include Tab in Custom App and ensure Append tab to users' existing personal customizations is checked.
 - Click Save.
- Repeat for the following Custom Objects:
 - Consumer
 - Laptop Booking
 - Billing Process

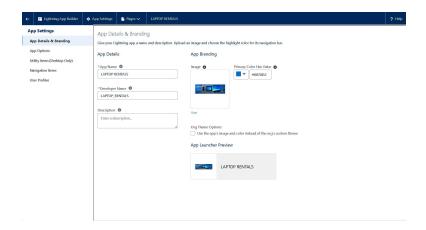
Tabs:



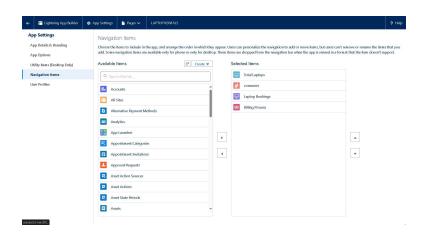
3. Creating a Lightning App Page

- Navigate to App Manager: Go to the Setup page and search for App Manager in the Quick Find bar.
- Create a New Lightning App:
 - Click on **New Lightning App**.
 - Fill in the **App Name**: LAPTOP RENTALS.
 - Click Next and keep the default settings on the App Options and Utility Items pages.
 - Upload a related photo for the app.
 - Add Navigation Items:
 - Select Total Laptops, Consumer, Laptop Booking, Billing Process from the search bar and move them using the arrow button.
 - Add User Profiles:
 - Search for **System Administrator** in the search bar and add it to the app.
 - Click Save & Finish.

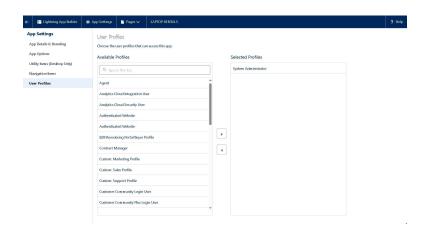
App Details:



App Naviagtion:



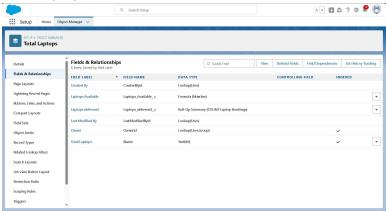
App User Profiles:



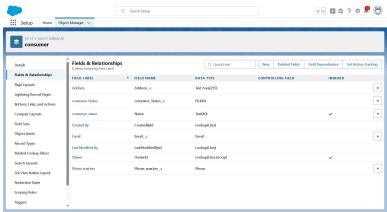
4. Adding Fields to the Objects

Follow the standard Salesforce procedure to add necessary fields to the Total Laptops,
 Consumer, Laptop Booking, and Billing Process objects.

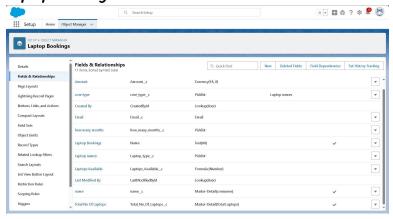
Total Laptops Fields:



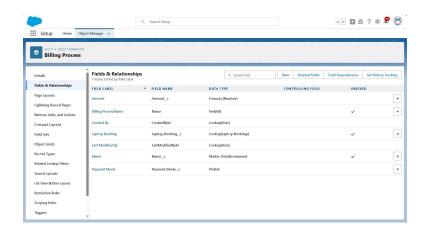
Consumer Fields:



Laptop Booking Fields:



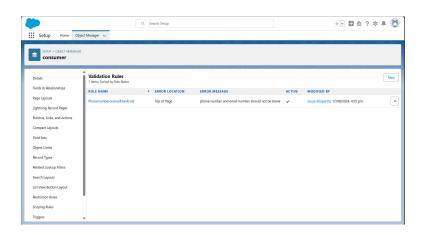
Billing Process Fields:



5. Creating a Validation Rule

- Navigate to Object Manager: Go to the Setup page and click on Object Manager.
- Edit Consumer Object: Select Consumer from the drop-down and click Edit.
- Create a Validation Rule:
 - Click on Validation Rules > New.
 - Enter the following details:
 - o Rule Name: Phonenumberoremailblankrule
 - **Description**: Phone number and email number should not be blank.
 - Formula: OR(ISBLANK(phone_number__c) , ISBLANK(email__c
))
 - Check the syntax and click Save.

Rule:



6. Creating Users

- Navigate to Users: Go to Setup, type Users in the Quick Find box, and select Users.
- Create New User:
 - Click **New User** and fill in the following details:

First Name: Vicky

o Last Name: Y

Alias: [Alias Name]

o **Email**: [Your Personal Email]

Username: text@text.text

o Nickname: [Nickname]

o Role: Owner

o User License: Salesforce

o **Profiles**: Owner

■ Click Save.

Repeat for Another User:

First Name: RamLast Name: RamAlias: [Alias Name]

■ Email: [Your Personal Email]

■ Username: text@text.text

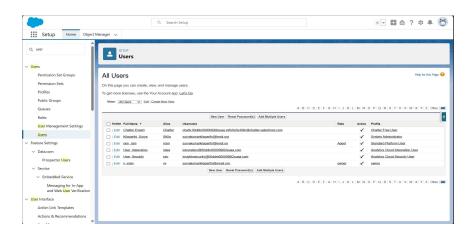
■ Nickname: [Nickname]

■ Role: Agent

User License: Salesforce PlatformProfiles: Standard Platform User

Click Save.

Users:



7. Creating a Flow for Laptop Distribution

 Create a Salesforce Flow to automate the laptop distribution process. This flow should handle the assignment of laptops to customers based on availability and booking details.

Flow:



8. Developing Apex Code

- LaptopBookingHandler Class: Write an Apex class to handle the business logic related to laptop bookings.
- **LaptopBooking Trigger**: Develop a trigger on the Laptop Booking object to automate processes like updating availability or sending notifications.

LaptopBookingHandler Class:

```
public class LaptopBookingHandler {
  public static void sendEmailNotification (List<Laptop_Bookings_c> lapList){
    for(Laptop_Bookings__c lap:lapList)
    {
      Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
      email.setToAddresses( new List<String>{lap.Email_c});
      email.setSubject('Welcome to our company');
      string body = 'Dear ' +lap.Name +', \n';
      body += 'Welcome to Laptop Rentals! You have been seen as a valuable customer to
us.\n Please continue your journey with us, while we try to provide you with good quality
resources. \n Laptop Amount = ' + lap.Amount__c + ' \n core type = '+lap.core_type__c +' \n
Laptop type = '+lap.Laptop_type__c;
      email.setPlainTextBody(body);
      Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{email});
    }
 }
```

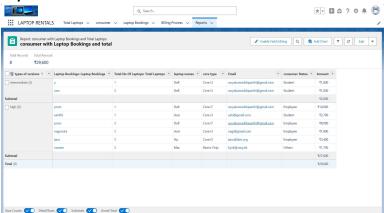
Laptop Booking Trigger:

```
trigger LaptopBooking on Laptop_Bookings__c (After insert,after update) {
   if(trigger.isAfter && ( trigger.isInsert || trigger.isupdate))
   {
      LaptopBookingHandler.sendEmailNotification(trigger.new);
   }
}
```

9. Generating Reports and Dashboards

- **Generate Reports**: Create custom reports to track key metrics such as total laptops available, booking status, and customer details.
- **Create a Dashboard**: Place the generated reports on a Salesforce dashboard for quick and easy visualization.

Report:



Dashboard:

