# 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:**

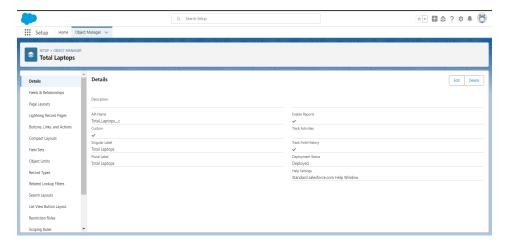
- **Total Laptops Management**: Track and manage the inventory of laptops available for rent.
- **Consumer Management**: Manage customer details and interactions.
- Laptop Booking Process: Handle laptop booking requests and manage bookings.
- Billing Process: Manage billing and payment processes for 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:**

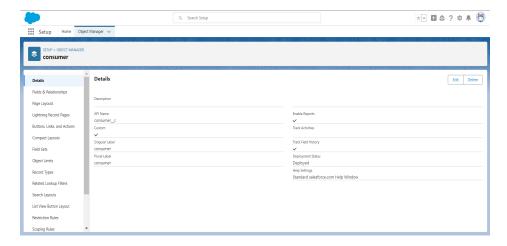
- Creating Custom Objects
  - Navigate to Setup: Go to the Setup page and click on Object Manager.

- Create Custom Object: Total Laptops
  - Click on Create > Custom Object.
  - Enter the following details:
    - 1. Label Name: Total Laptops
    - 2. Plural Label Name: Total Laptops
    - 3. Record Name Label: Total Laptops
    - 4. Data Type: Text
  - Enable the following options:
    - 1. Allow Reports
    - 1. Allow Search
    - 2. Track Field History
  - Click Save.
- b. Repeat for the following Custom Objects:
  - Consumer
  - Laptop Booking
  - Billing Process

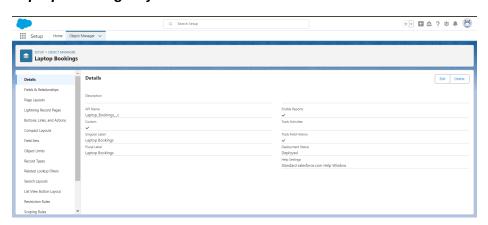
# **Total Laptops Object:**



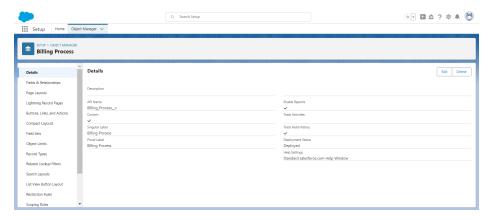
# **Consumer Object:**



## Laptop Booking Object:



## **Billing Process Object:**



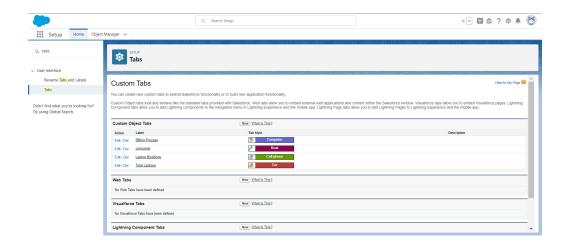
# 2.Creating Tabs

- Navigate to Setup: Type Tabs in the Quick Find bar and select Tabs.
- Create a New Tab:
  - Click on **New** underCustom Object Tabs.
  - Select **Object**: Total Laptops
  - Choose a **Tab Style**.
  - Click **Next** and keep the defaultsettings on the profiles page.
  - Uncheck IncludeTab in Custom App andensure Append tab to users' existingpersonal customizations ischecked.
  - Click Save.

## **Repeat for the following Custom Objects:**

- Consumer
- Laptop Booking
- Billing Process

#### Tabs:



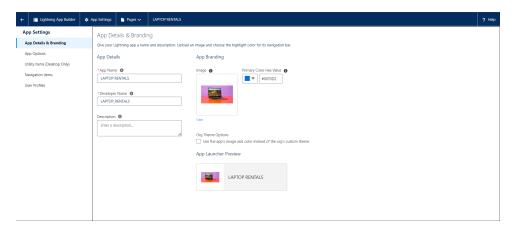
# 3. Creating a Lightning App Page

- Navigate to App Manager: Go to the Setup page and searchfor App Manager intheQuick Find bar.
- Create a New Lightning App:
  - Click on **New LightningApp**.
  - Fill in the **App Name**: LAPTOP RENTALS.
  - Click Next and keep the defaultsettings on the App Optionsand Utility Itemspages.
  - Upload a relatedphoto for the app.
  - Add Navigation Items:
    - Select Total Laptops, Consumer, Laptop Booking,
       BillingProcess from the search bar and move them using the arrow button.

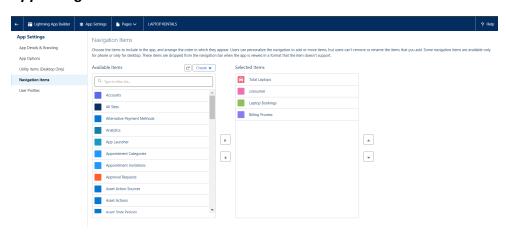
## **Add User Profiles:**

- 2. Search for **System Administrator** in the searchbar and add it to theapp.
- Click Save & Finish.

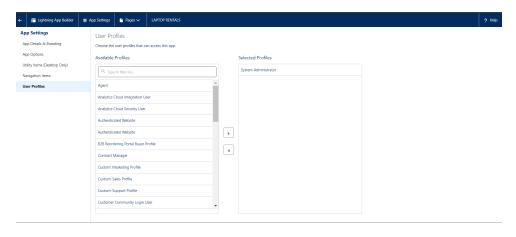
# App Details:



## **App Navigation:**



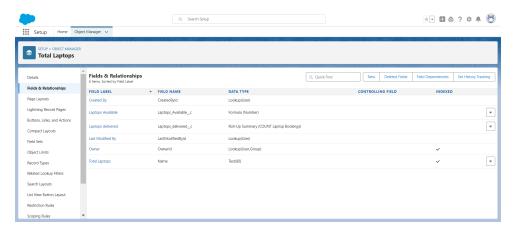
## **App User Profiles:**



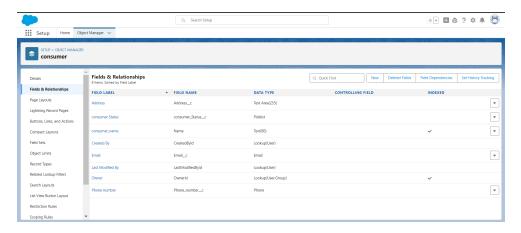
# 4. Adding Fields to the objects

 Follow the standard Salesforce procedure to add necessary fields to the TotalLaptops, Consumer, Laptop Booking, and Billing Processobjects.

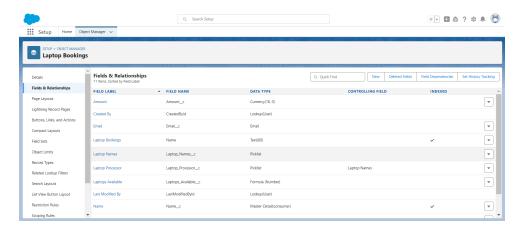
## Total laptops Fields:



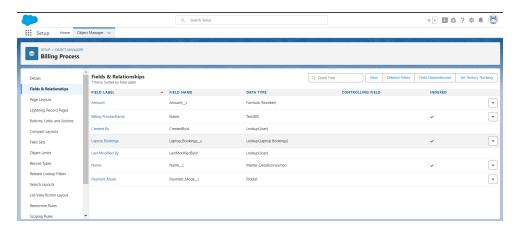
#### **Consumer Fields:**



#### Laptop Booking Fields:



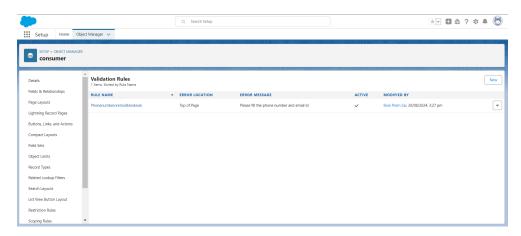
## **Billing Process Fields:**



# 5. Creating a Validation Rule:

- Navigate to Object Manager: Go to the Setup page and click on ObjectManager.
- Edit ConsumerObject: Select Consumerfrom the drop-down and click Edit.
- Create a Validation Rule:
  - Click on Validation Rules > New.
  - Enter the following details:
    - 1. Rule Name: Phonenumberoremailblankrule
    - 2. **Description**: Phone number and email number should not be blank.
  - 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
    - o **Alias**: [AliasName]
    - o **Email**: [Your PersonalEmail]
    - 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:Ram
- Last Name:Ram
- **Alias**: [AliasName]
- Email: [Your PersonalEmail]

■ Username: <u>text@text.text</u>

■ Nickname: [Nickname]

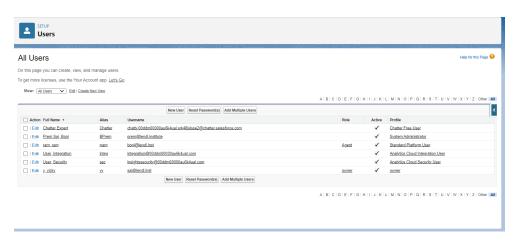
■ Role: Agent

■ **User License**: Salesforce Platform

■ **Profiles**: Standard PlatformUser

Click Save.

#### Users:



# 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

o Alias: [AliasName]

Email: [Your PersonalEmail]

Username: <u>text@text.text</u>

o Nickname: [Nickname]

o Role: Owner

User License: Salesforce

Profiles: Owner

■ Click Save.

# **Repeat for Another User:**

■ First Name:Ram

■ Last Name:Ram

■ **Alias**: [AliasName]

■ Email: [Your PersonalEmail]

■ Username: <u>text@text.text</u>

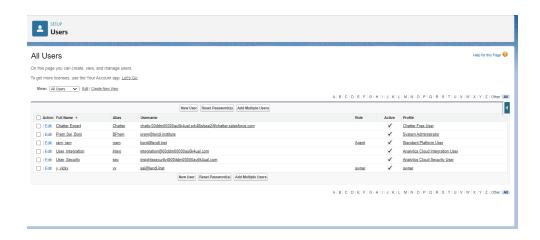
■ Nickname: [Nickname]

■ Role: Agent

User License: Salesforce PlatformProfiles: Standard PlatformUser

■ Click Save.

#### Users:



# 7. Creating a Flow for Laptop Distribution

Create a Salesforce Flow to automatethe laptop distribution process.
 This flow shouldhandle the assignment of laptops to customers based on availability andbooking details.

#### Flow:



# 8. Developing Apex Code

- **LaptopBookingHandler Class**: Write an Apex class to handle the business logicrelated to laptopbookings.
- **LaptopBooking Trigger**: Develop a triggeron the Laptop Booking object to automateprocesses like updating availability or sending notifications.

## **LaptopBookingHandler Class:**

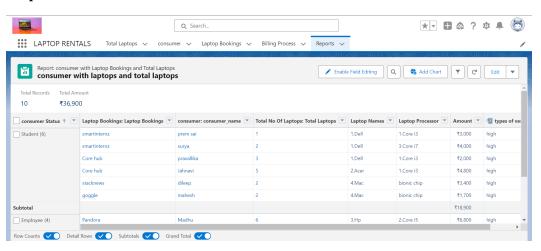
## Laptop Booking Trigger:

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

# 9. Generating Reportsand Dashboards

- Generate Reports: Create custom reports to track key metrics such as total laptopsavailable, booking status, and customer details.
- Create a Dashboard: Place the generatedreports on a Salesforce dashboardforquick and easy visualization.

#### Report:



## Dashboard:

