


# PROJECT DEVELOPMENT PHASE

Date	2-06-2025
Team Id	LTVIP2025TMID31533
Project Name	AirLine Management System
College Name	Ideal Institute Of Technology


## 1.Created developer org and explored platform features



### Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud.

Sign up for your Developer Edition.

- ✓ Build apps fast with drag-and-drop tools
- ✓ Go further with Apex code
- ✓ Build AI agents with Agentforce
- ✓ Harmonize your data with Data Cloud
- ✓ Ground Agentforce with structured and unstructured data
- ✓ Integrate with anything using APIs



#### Sign up for your Developer Edition

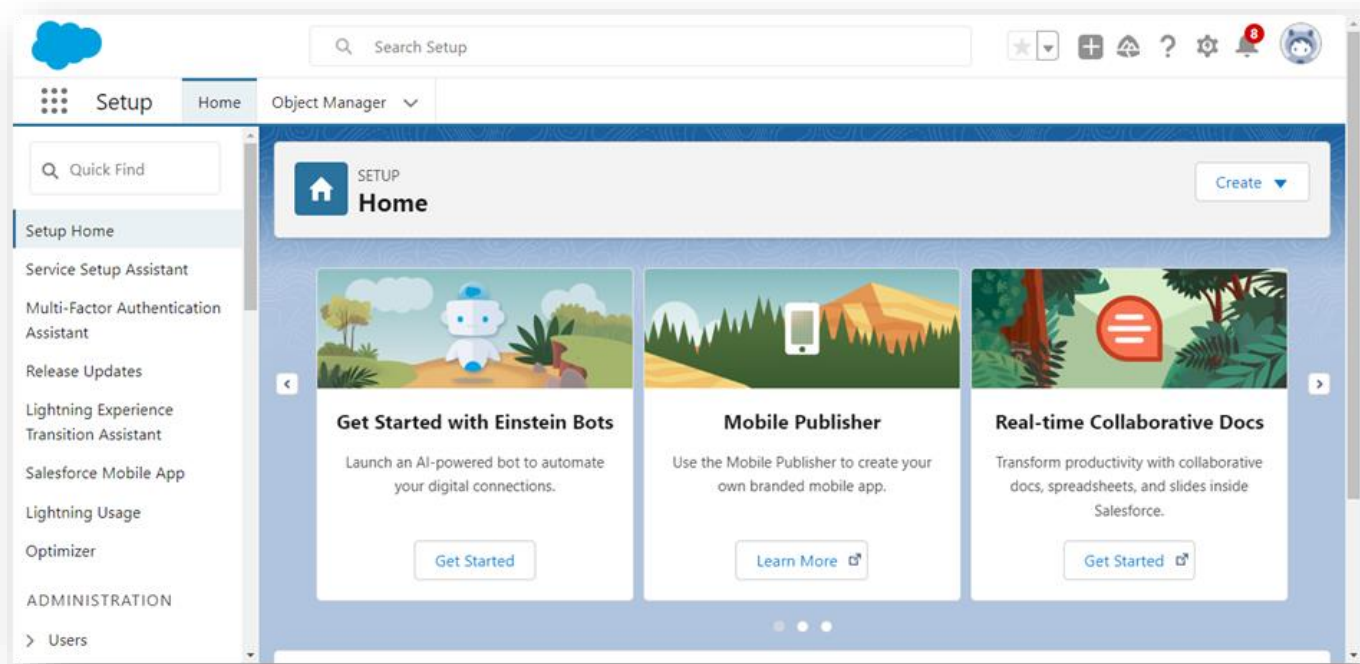
A free Salesforce Platform environment with Agentforce and Data Cloud

First name	Last name
<input type="text" value="Vishal Manibabu Kasu"/>	<input type="text" value="Team"/>
Job title	Work email
<input type="text" value="student"/>	<input type="text" value="anjanaram219@gmail"/>
Company	Country/Region
<input type="text" value="Ideal Institute of Tech"/>	<input type="text" value="India"/>

Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud Infrastructure.

☒ I agree to the Main Services Agreement – Developer Services and Salesforce Program Agreement. I acknowledge, as described in the Developer Documentation: (1) the Developer Edition includes autonomous and other generative AI features; and (2) Salesforce may limit use of those features and the org, and may terminate any org that has been inactive for 45 days.

We value your privacy. To learn more, visit our Privacy Statement.



## 2.Created flight object

Edit Custom Object  
**Flight**

Custom Object Definition Edit Save Save & New Cancel

Custom Object Information Required Information

The singular and plural labels are used in tabs, page layouts, and reports.  
Be careful when changing the name or label as it may affect existing integrations and merge templates.

Label  Example: Account

Plural Label  Example: Accounts

Starts with vowel sound ☐

The Object Name is used when referencing the object via the API.

Object Name  Example: Account

Description

Context-Sensitive Help Setting

☒ Open the standard Salesforce.com Help & Training window

☐ Open a window using a Visualforce page

Contact Name

Enter Record Name Label and Format

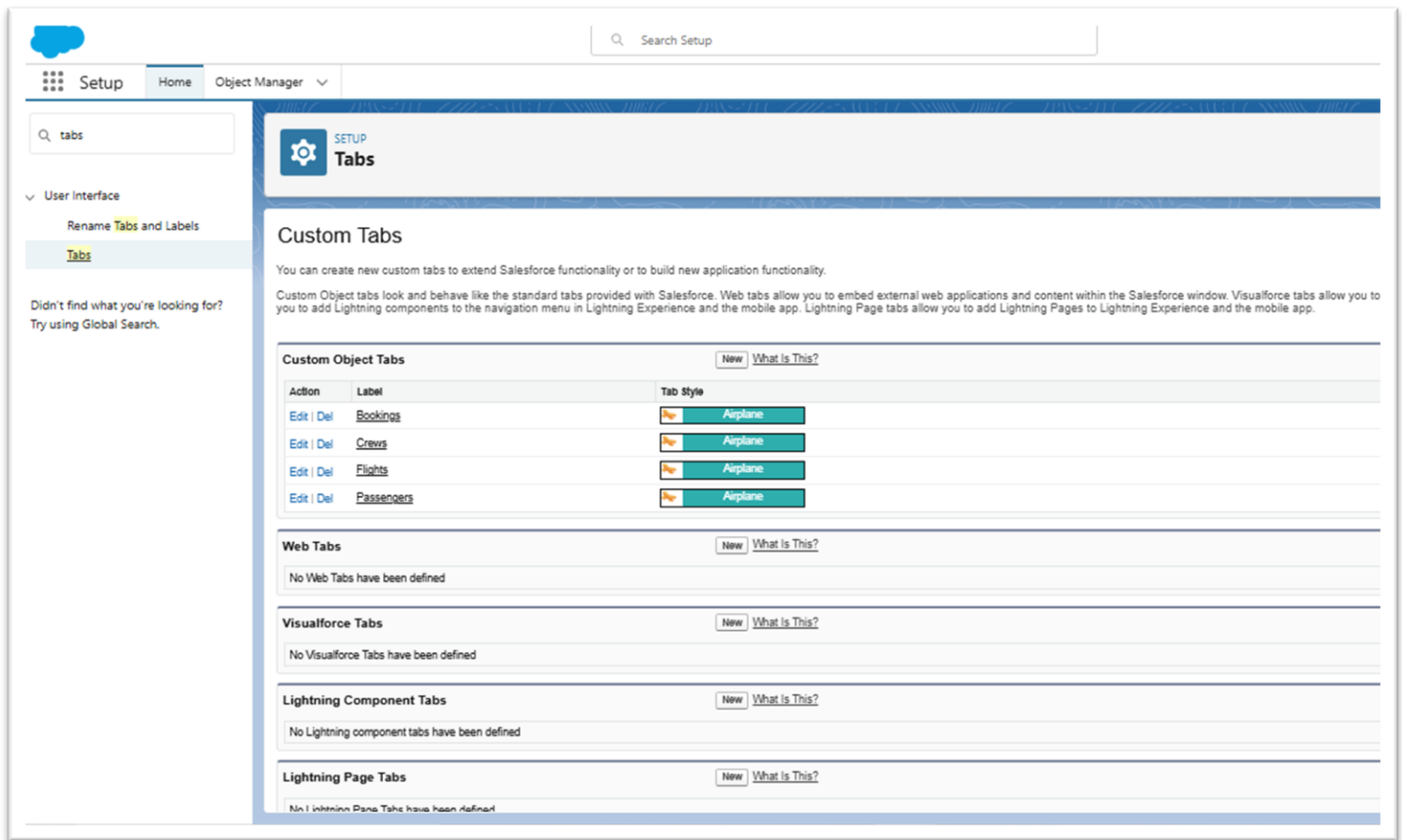
The Record Name appears in page layouts, key lists, related lists, lookups, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name field is always called "Name" when referenced via the API.

Record Name  Example: Account Name

Data Type  Warning: If you plan to insert a high volume of records in this object, via the API for example, use the Text data type.

Optional Features

### 3.Created core objects and tabs for Passenger, Booking, Flight, and Crew.

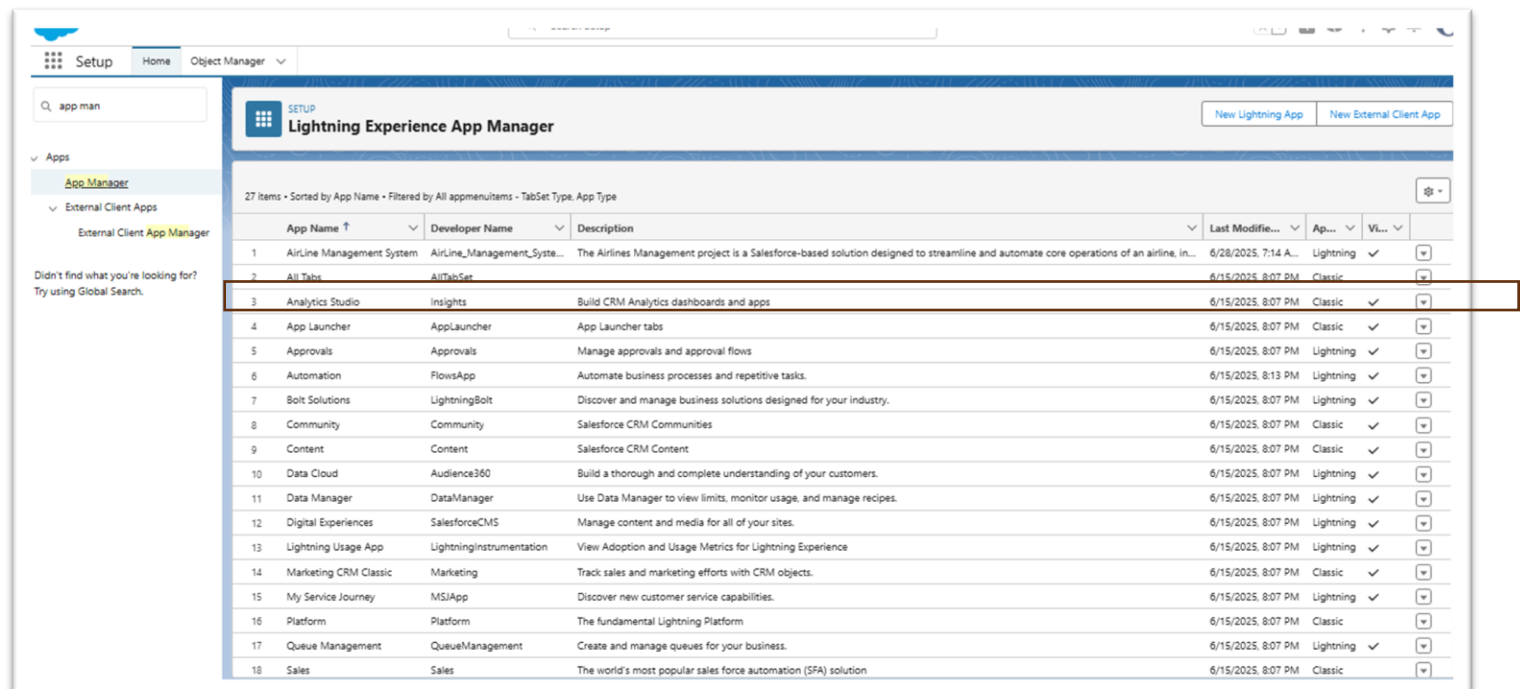


The screenshot shows the Salesforce Setup interface for Custom Tabs. The left sidebar includes a search bar with 'tabs' and a navigation menu with 'User Interface' expanded, showing 'Rename Tabs and Labels' and 'Tabs'. The main content area is titled 'Custom Tabs' and contains a description: 'You can create new custom tabs to extend Salesforce functionality or to build new application functionality. Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.'

Below the description are five sections for different tab types, each with a 'New' button and a 'What Is This?' link:

- Custom Object Tabs:** A table with columns 'Action', 'Label', and 'Tab Style'. It lists four tabs: 'Bookings', 'Crews', 'Flights', and 'Passengers', all with an 'Airplane' icon and 'Airplane' style.
- Web Tabs:** A message stating 'No Web Tabs have been defined'.
- Visualforce Tabs:** A message stating 'No Visualforce Tabs have been defined'.
- Lightning Component Tabs:** A message stating 'No Lightning component tabs have been defined'.
- Lightning Page Tabs:** A message stating 'No Lightning Page Tabs have been defined'.

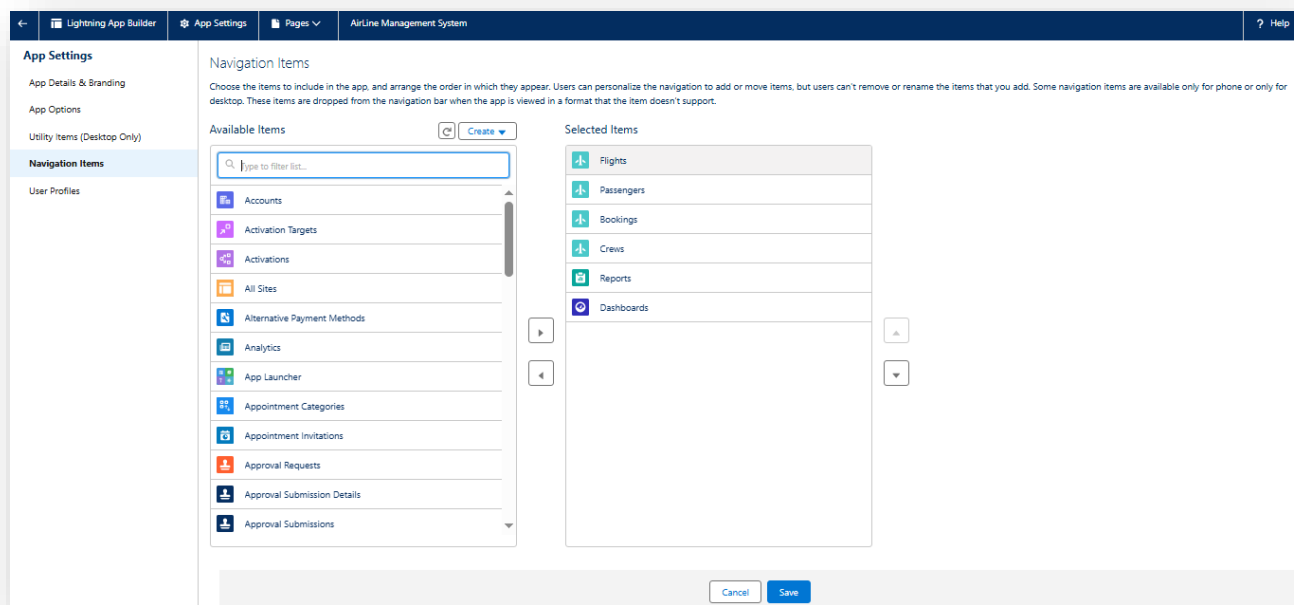
### 4.Developed a Lightning App to manage Passenger, Booking, Flight, and Crew modules from a single interface



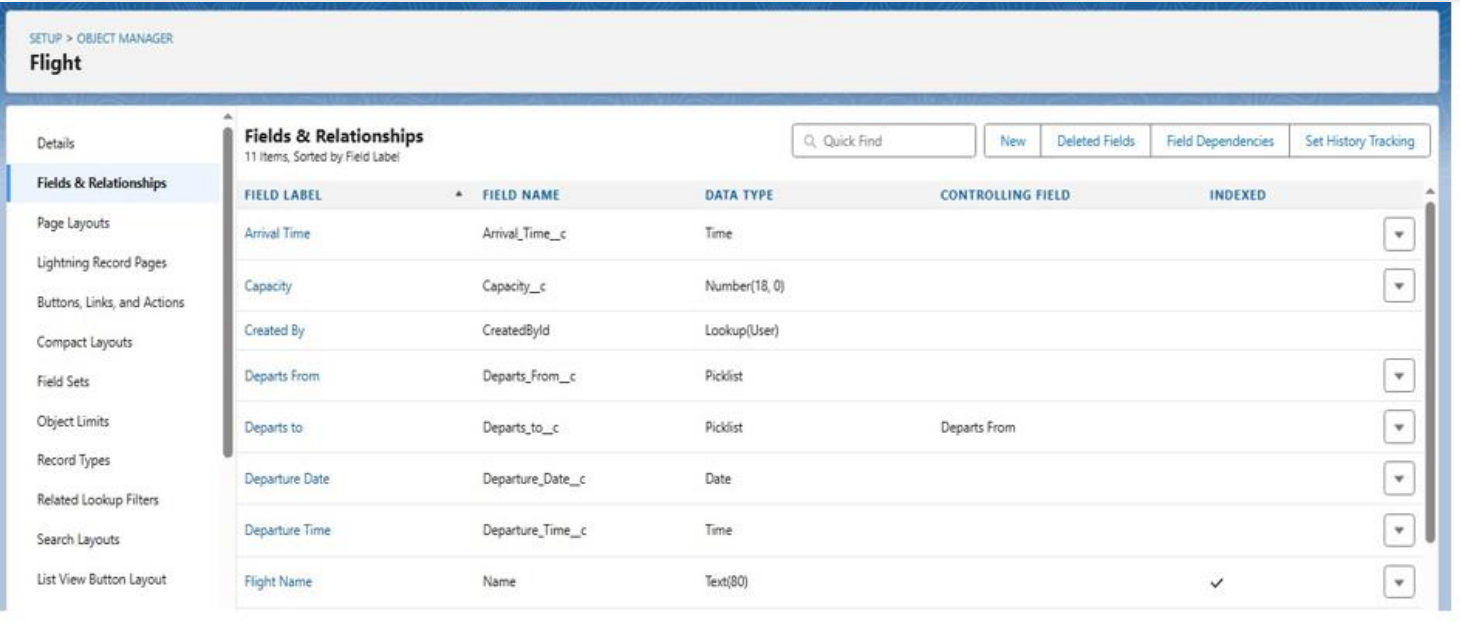
The screenshot shows the Salesforce Lightning Experience App Manager. The left sidebar includes a search bar with 'app man' and a navigation menu with 'Apps' expanded, showing 'App Manager' and 'External Client Apps'. The main content area is titled 'Lightning Experience App Manager' and contains a table of 27 items, sorted by App Name. The table has columns: App Name, Developer Name, Description, Last Modified, App Type, and Visibility. A red box highlights the 'All Tabs' app, which is a Lightning app with a Classic visibility setting.

App Name	Developer Name	Description	Last Modified	App Type	Visibility
1 AirLine Management System	AirLine_Management_Syste...	The Airlines Management project is a Salesforce-based solution designed to streamline and automate core operations of an airline. in...	6/28/2025, 7:14 A...	Lightning	✓
2 All Tabs	AllTabSet		6/15/2025, 8:07 PM	Classic	✓
3 Analytics Studio	Insights	Build CRM Analytics dashboards and apps	6/15/2025, 8:07 PM	Classic	✓
4 App Launcher	AppLauncher	App Launcher tabs	6/15/2025, 8:07 PM	Classic	✓
5 Approvals	Approvals	Manage approvals and approval flows	6/15/2025, 8:07 PM	Lightning	✓
6 Automation	FlowsApp	Automate business processes and repetitive tasks.	6/15/2025, 8:13 PM	Lightning	✓
7 Bolt Solutions	LightningBolt	Discover and manage business solutions designed for your industry.	6/15/2025, 8:07 PM	Lightning	✓
8 Community	Community	Salesforce CRM Communities	6/15/2025, 8:07 PM	Classic	✓
9 Content	Content	Salesforce CRM Content	6/15/2025, 8:07 PM	Classic	✓
10 Data Cloud	Audience360	Build a thorough and complete understanding of your customers.	6/15/2025, 8:07 PM	Lightning	✓
11 Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and manage recipes.	6/15/2025, 8:07 PM	Lightning	✓
12 Digital Experiences	SalesforceCMS	Manage content and media for all of your sites.	6/15/2025, 8:07 PM	Lightning	✓
13 Lightning Usage App	LightningInstrumentation	View Adoption and Usage Metrics for Lightning Experience	6/15/2025, 8:07 PM	Lightning	✓
14 Marketing CRM Classic	Marketing	Track sales and marketing efforts with CRM objects.	6/15/2025, 8:07 PM	Classic	✓
15 My Service Journey	MSJApp	Discover new customer service capabilities.	6/15/2025, 8:07 PM	Lightning	✓
16 Platform	Platform	The fundamental Lightning Platform	6/15/2025, 8:07 PM	Classic	✓
17 Queue Management	QueueManagement	Create and manage queues for your business.	6/15/2025, 8:07 PM	Lightning	✓
18 Sales	Sales	The world's most popular sales force automation (SFA) solution	6/15/2025, 8:07 PM	Classic	✓

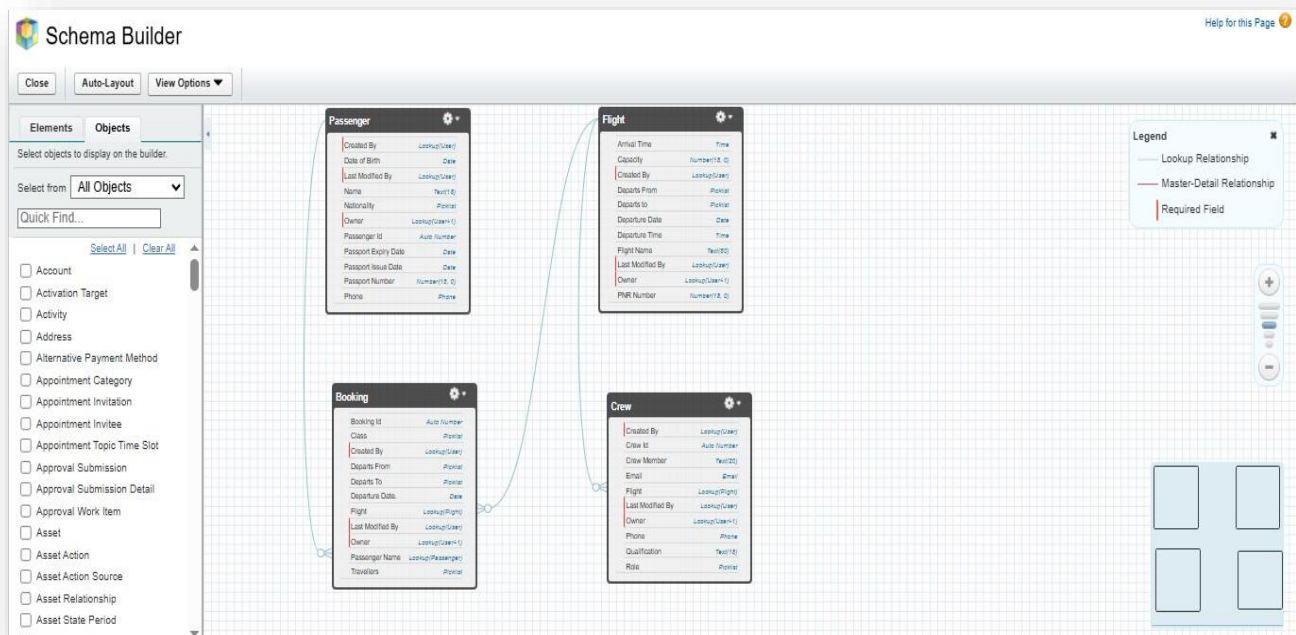
5.Created the 'Airline Management System' Lightning App with navigation tabs for Passenger, Booking, Flight, and Crew



6.Added custom fields, picklists, lookup relationships, and field dependencies to support data integrity and user input control



## 7.Used Salesforce Schema Builder to visualize and verify object relationships



## 8.Created 10 sample records for each object using the Salesforce Lightning interface flights, passengers,bookings,crews

The image shows the Salesforce Lightning interface for the 'AirLine Manage...' application. The 'Flights' tab is selected, and the 'Recently Viewed' section displays a list of 10 sample flight records. The table has the following structure:

	<input type="checkbox"/> Flight Name
1	<input type="checkbox"/> Delta Air Lines
2	<input type="checkbox"/> United Airlines
3	<input type="checkbox"/> SpiceJet
4	<input type="checkbox"/> IndiGo
5	<input type="checkbox"/> Qatar Airways
6	<input type="checkbox"/> Air France
7	<input type="checkbox"/> Lufthansa
8	<input type="checkbox"/> Emirates
9	<input type="checkbox"/> Singapore Airlines
10	<input type="checkbox"/> Air India

AirLine Manage...

Flights

Passengers

Bookings

Crews

Reports

Dashboards

Q Search...

Passengers

Recently Viewed

New

Import

Change Owner

Assign Label

Q Search this list...

11 Items • Updated a few seconds ago

Passenger Id

1	<input type="checkbox"/>	Bn-0011	<div></div>
2	<input type="checkbox"/>	Bn-0008	<div></div>
3	<input type="checkbox"/>	Bn-0012	<div></div>
4	<input type="checkbox"/>	Bn-0013	<div></div>
5	<input type="checkbox"/>	Bn-0009	<div></div>
6	<input type="checkbox"/>	Bn-0007	<div></div>
7	<input type="checkbox"/>	Bn-0006	<div></div>
8	<input type="checkbox"/>	Bn-0005	<div></div>
9	<input type="checkbox"/>	Bn-0004	<div></div>
10	<input type="checkbox"/>	Bn-0003	<div></div>
11	<input type="checkbox"/>	Bn-0002	<div></div>

AirLine Manage...

Flights

Passengers

Bookings

Crews

Reports

Dashboards

Q Search...

Bookings

Recently Viewed

New

Import

Change Owner

Assign Label

Q Search this list...

10 Items • Updated a few seconds ago

Booking Id

1	<input checked="" type="checkbox"/>	Bn-0002	<div></div>
2	<input type="checkbox"/>	Bn-0001	<div></div>
3	<input type="checkbox"/>	Bn-0007	<div></div>
4	<input type="checkbox"/>	Bn-0010	<div></div>
5	<input type="checkbox"/>	Bn-0006	<div></div>
6	<input type="checkbox"/>	Bn-0003	<div></div>
7	<input type="checkbox"/>	Bn-0004	<div></div>
8	<input type="checkbox"/>	Bn-0005	<div></div>
9	<input type="checkbox"/>	Bn-0009	<div></div>
10	<input type="checkbox"/>	Bn-0008	<div></div>

	Crew Id	
<input checked="" type="checkbox"/>	Bk-0001	
<input type="checkbox"/>	Bk-0010	
<input type="checkbox"/>	Bk-0009	
<input type="checkbox"/>	Bk-0008	
<input type="checkbox"/>	Bk-0007	
<input type="checkbox"/>	Bk-0006	
<input type="checkbox"/>	Bk-0005	
<input type="checkbox"/>	Bk-0004	
<input type="checkbox"/>	Bk-0003	
<input type="checkbox"/>	Bk-0002	

9.Configured user profiles with appropriate object permissions and field-level security.

**Clone Profile**

Enter the name of the new profile.

You must select an existing profile to clone from.

Existing Profile	Standard Platform User
User License	Salesforce Platform
Profile Name	Management Admin

Save Cancel

**Clone Profile**

Enter the name of the new profile.

You must select an existing profile to clone from.

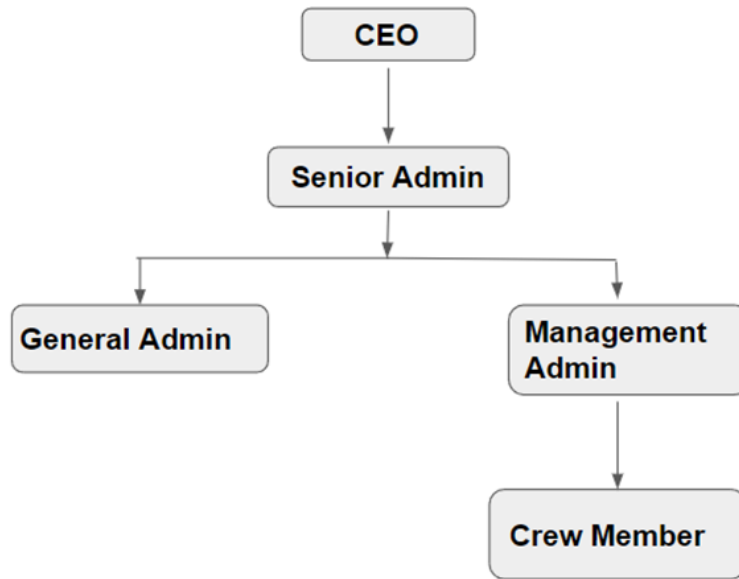
Existing Profile	System Administrator
User License	Salesforce
Profile Name	Senior Admin

Save Cancel

## 10. Set up role hierarchy to define data access levels based on user roles within the organization

 **SETUP**  
**Roles**





**Role Hierarchy:** The above diagram represents which role reports to which one.

## 11.Created and managed users by assigning appropriate roles and profiles

User Edit  
Niklaus Mikaelson

Save Save & New Cancel

General Information

First Name	Niklaus	Role	Senior Admin
Last Name	Mikaelson	User License	Salesforce
Alias	nmika	Profile	Senior Admin
Email	anjanaram219@gmail.com	Active	<input checked="" type="checkbox"/>
Username	niki@mike.com	Marketing User	<input type="checkbox"/>
Nickname	niki	Offline User	<input type="checkbox"/>
Title		Knowledge User	<input type="checkbox"/>
Company		Flow User	<input type="checkbox"/>
Department		Service Cloud User	<input type="checkbox"/>
Division		Site.com Contributor User	<input type="checkbox"/>
		Site.com Publisher User	<input type="checkbox"/>
		WDC User	<input type="checkbox"/>
		Data.com User Type	None

SETUP

Users

User Edit

Kol Mikaelson

User Edit

SaveSave & NewCancel

General Information

First Name

Kol

Last Name

Mikaelson

Alias

kmika

Email

anjanaram219@gmail.com

Username

kol@mika.com

Nickname

kolson

Title

Company

Department

Division

Role

General Admin

User License

Salesforce Platform

Profile

General Admin

Active

☐

Marketing User

☐

Offline User

☐

Knowledge User

☐

Flow User

☐

Service Cloud User

☐

Site.com Contributor User

☐

Site.com Publisher User

☐

WDC User

☐

Data.com User Type

--None--

Data.com Monthly Addition Limit

300

Accessibility Mode (Classic Only)

☐

High-Contrast Palette on Charts

☐

User Edit

Damon Salvatore

User Edit

SaveSave & NewCancel

General Information

First Name

Damon

Last Name

Salvatore

Alias

dsalv

Email

anjanaram219@gmail.com

Username

damon@sal.com

Nickname

damon

Title

Company

Department

Division

Role

Management Admin

User License

Salesforce Platform

Profile

Management Admin

Active

☒

Marketing User

☐

Offline User

☐

Knowledge User

☐

Flow User

☐

Service Cloud User

☐

Site.com Contributor User

☐

Site.com Publisher User

☐

WDC User

☐

Data.com User Type

--None--

Data.com Monthly Addition Limit

300

SETUP

Users

User Edit

Alice martin

User Edit

SaveSave & NewCancel

General Information

First Name

Alice

Last Name

martin

Alias

amart

Email

anjanaram219@gmail.com

Username

alice@martin1.com

Nickname

User175067051829988068

Title

Company

Department

Division

Role

Crew Member

User License

Salesforce Platform

Profile

Crew Members

Active

☒

Marketing User

☐

Offline User

☐

Knowledge User

☐

Flow User

☐

Service Cloud User

☐

Site.com Contributor User

☐

Site.com Publisher User

☐

WDC User

☐

Data.com User Type

--None--

Data.com Monthly Addition Limit

300

12.Created custom reports to track flight bookings, passenger details, and crew assignments.

AirLine Manage...

Flights

Passengers

Bookings

Crews

Reports

Dashboards

Search...

Reports

Recent

3 items

Search recent reports...

REPORTS	Report Name	Description	Folder	Created By	Created On
Recent	Bookings with Flight Details		Private Reports	Vishal Manibabu Kasukurthi Team	6/25/2025, 2:19 AM
Created by Me	Crew with Flight		Private Reports	Vishal Manibabu Kasukurthi Team	6/25/2025, 3:08 AM
Private Reports	Booking with Passenger Name		Private Reports	Vishal Manibabu Kasukurthi Team	6/25/2025, 3:04 AM
Public Reports					
All Reports					
FOLDERS					
All Folders					
Created by Me					
Shared with Me					
FAVORITES					
All Favorites					

13. Developed visual dashboards (e.g., class-wise bookings

AirLine Manage...

Flights

Passengers

Bookings

Crews

Reports

Dashboards

Search...

Star

Grid

Share

Help

Settings

Notifications

Profile

Dashboards

Recent

3 items

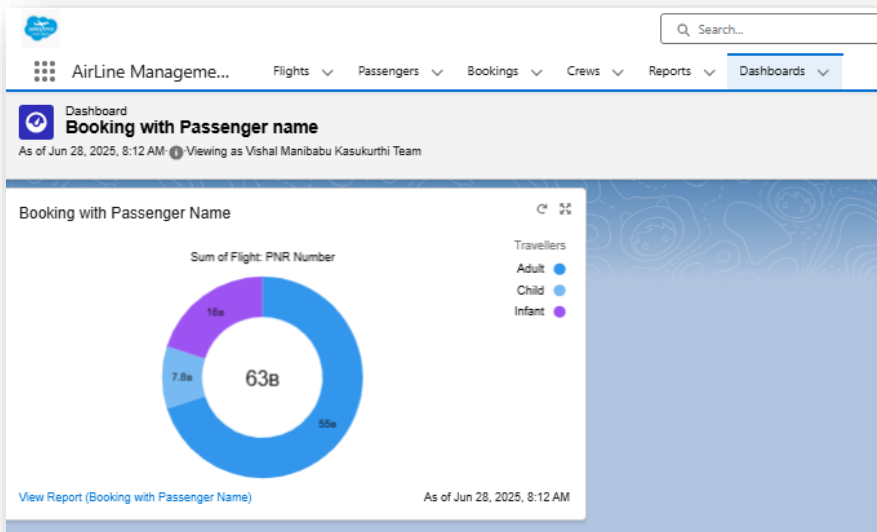
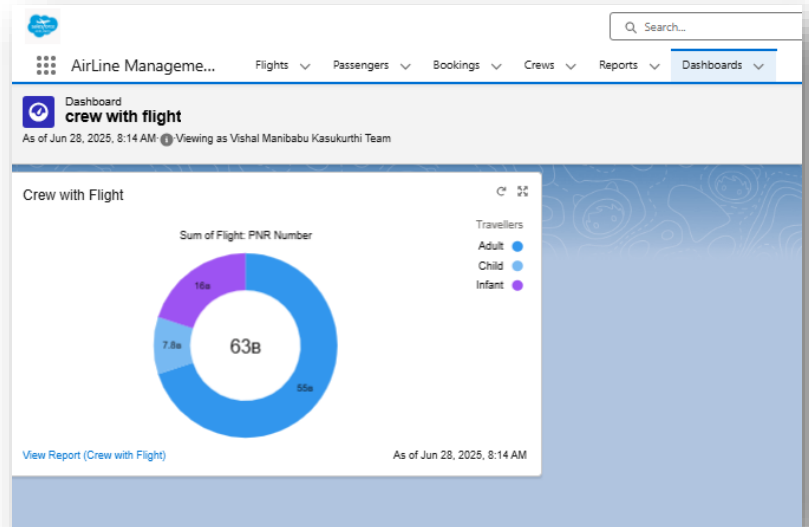
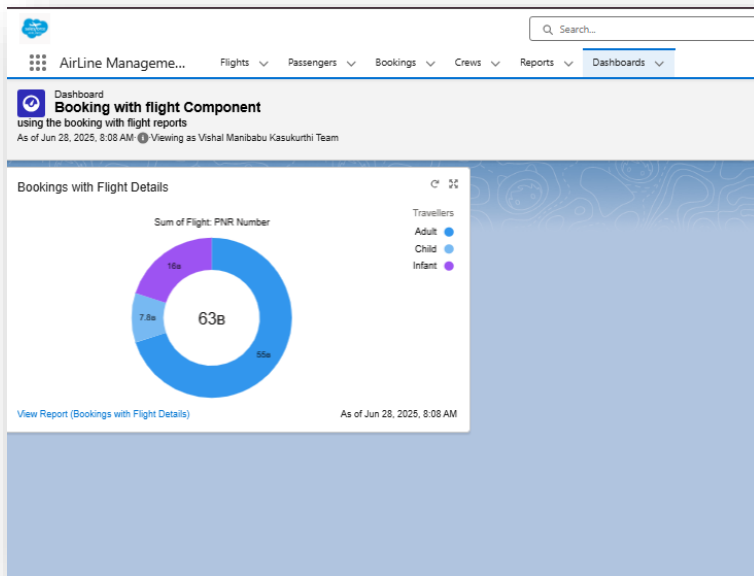
Search recent dashboards...

New Dashboard

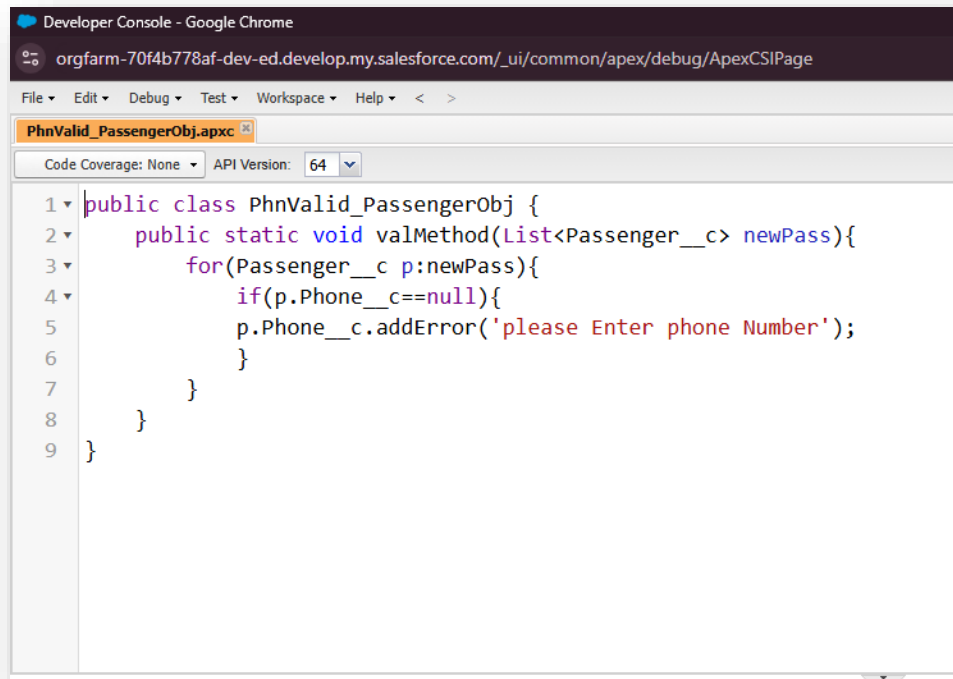
New Folder

Settings

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Booking with flight Component	using the booking with flight reports	Private Dashboards	Vishal Manibabu Kasukurthi Team	6/25/2025, 2:57 AM	<input type="checkbox"/>
Created by Me	Booking with Passenger name		Private Dashboards	Vishal Manibabu Kasukurthi Team	6/28/2025, 8:08 AM	<input type="checkbox"/>
Private Dashboards	crew with flight		Private Dashboards	Vishal Manibabu Kasukurthi Team	6/28/2025, 8:10 AM	<input type="checkbox"/>
All Dashboards						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

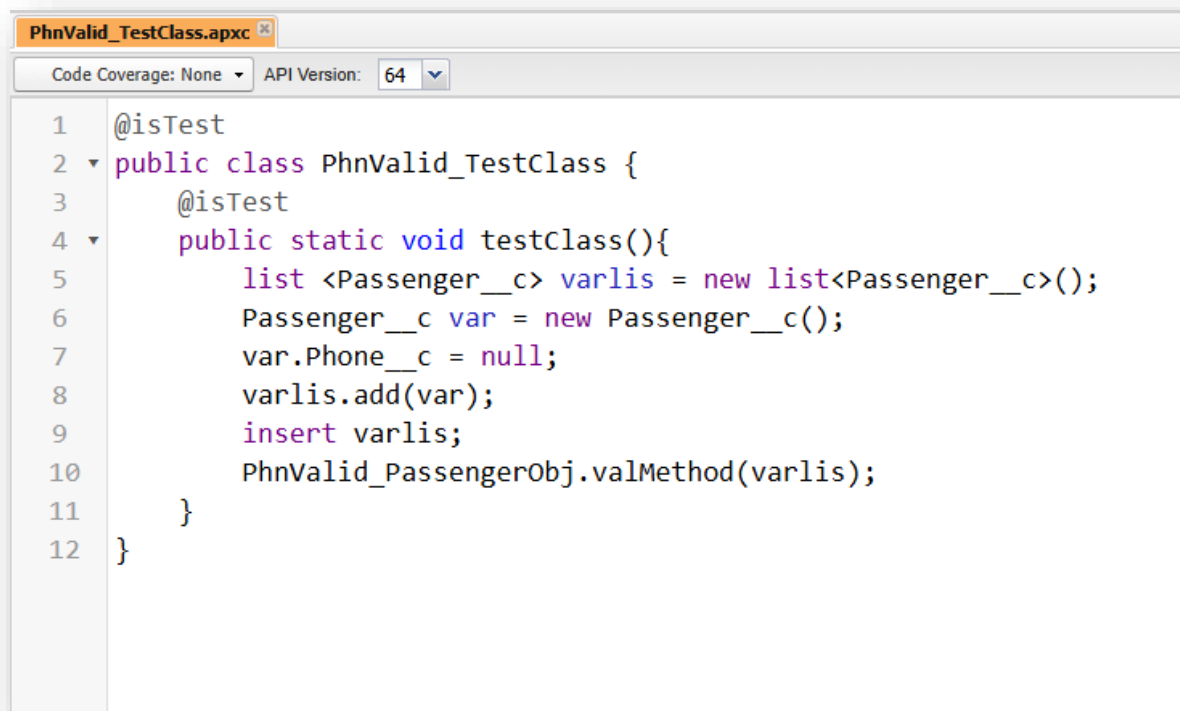


#### 14. Developed Apex class, trigger, and test class to validate Passenger phone input during record creation



The screenshot shows the Salesforce Developer Console with the Apex class `PhnValid_PassengerObj.apxc` open. The class contains a static method `valMethod` that iterates through a list of `Passenger__c` objects and adds an error message if the phone number is null.

```
1 public class PhnValid_PassengerObj {
2     public static void valMethod(List<Passenger__c> newPass){
3         for(Passenger__c p:newPass){
4             if(p.Phone__c==null){
5                 p.Phone__c.addError('please Enter phone Number');
6             }
7         }
8     }
9 }
```



The screenshot shows the Salesforce Developer Console with the Apex test class `PhnValid_TestClass.apxc` open. The test class includes a static test method `testClass` that creates a `Passenger__c` object with a null phone number, adds it to a list, and calls the `valMethod` from the `PhnValid_PassengerObj` class to validate the input.

```
1 @isTest
2 public class PhnValid_TestClass {
3     @isTest
4     public static void testClass(){
5         list <Passenger__c> varlis = new list<Passenger__c>();
6         Passenger__c var = new Passenger__c();
7         var.Phone__c = null;
8         varlis.add(var);
9         insert varlis;
10        PhnValid_PassengerObj.valMethod(varlis);
11    }
12 }
```

Developer Console - Google Chrome

orgfarm-70f4b778af-dev-ed.develop.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage

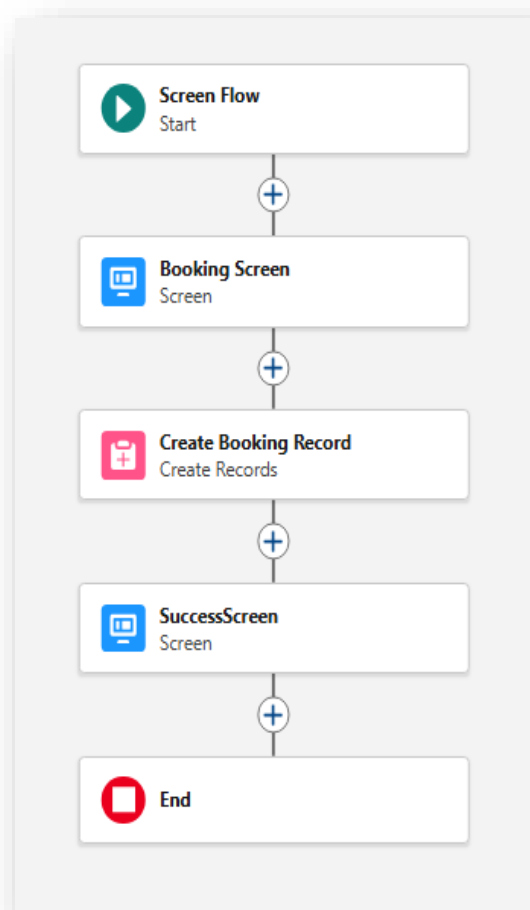
File Edit Debug Test Workspace Help < >

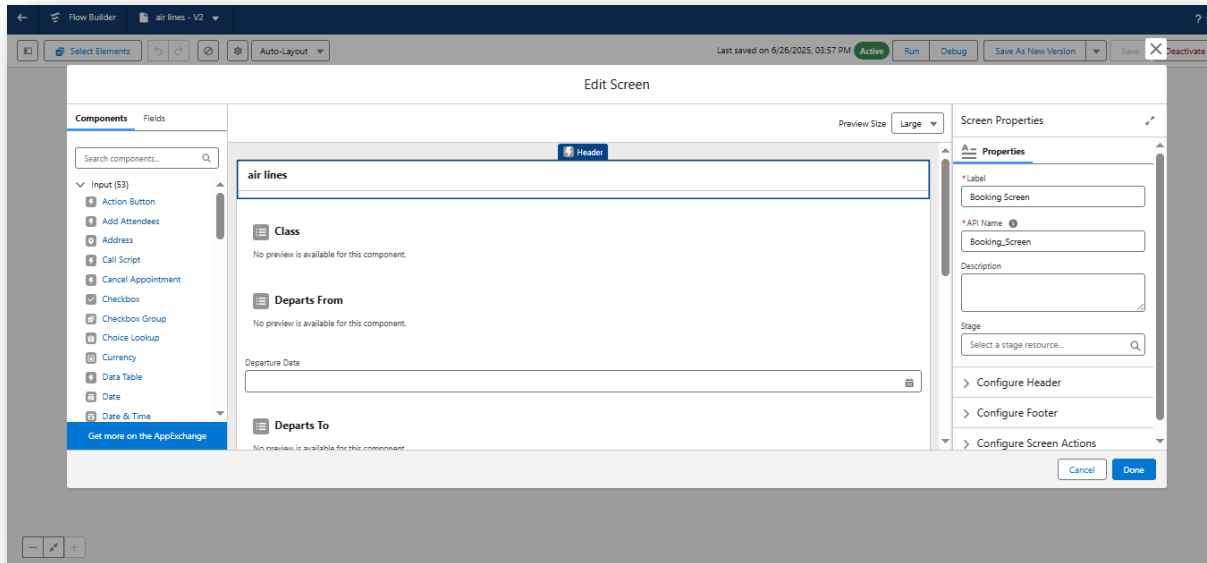
PhnValid\_PassengerObj.apxc PhnValid\_TestClass.apxc **PhnValidTrigger.apxt**

Code Coverage: None API Version: 64

```
1 trigger PhnValidTrigger on Passenger__c (before insert) {
2     if(trigger.isBefore && trigger.isInsert){
3         PhnValid_PassengerObj.valMethod(trigger.new);
4     }
5 }
```

15. Built a Booking Flow with a confirmation screen displaying a success message upon completion





Last saved on 6/26/2025, 03:57 PM

Active

Run

Debug

Save As New Version

Save

Deactivate

Create Records

\* Label

Create Booking Record

\* API Name

Create\_Booking\_Record

Description

\* How to set record field values

Manually

Create a Record of This Object

\* Object

Booking

Set Field Values for the Booking

Field	Value
Class	bookingObject > Class
Departs From	bookingObject > Departs From
Departs To	bookingObject > Departs To
Departure Date	bookingObject > Departure Date
Flight	bookingObject > Flight
Passenger Name	bookingObject > Passenger Name

## Edit Screen

Components Fields

Preview Size Large

Screen Properties

Search components...

Input (53)

Action Button

Add Attendees

Address

Call Script

Cancel Appointment

Get more on the AppExchange

1. We are happy to inform you that your booking for [tour name] is confirmed! Get ready to create some unforgettable memories. We've made things easy for you and included all of your booking details in this very email. All you need to do is show us this email on the day you arrive, and you'll be good to go!

Date: {!bookingObject.Departure\_Date\_\_c}  
Departs from: {!bookingObject.Departs\_From\_\_c}  
Departs to: {!bookingObject.Departs\_To\_\_c}  
Class: {!bookingObject.Class\_\_c}  
Travellers: {!bookingObject.Travellers\_\_c}

Properties

\* Label

SuccessScreen

\* API Name

SuccessScreen

Description

Cancel

Done



## PROJECT EXECUTABLE FILES

In the development of the Airlines Management System, Salesforce's low-code platform was enhanced using **Apex programming** to implement custom validations and business logic.

These executable files represent the backend logic that enforces data integrity and automates specific actions within the system

The following components were developed as part of the executable logic:

- **Apex Class:** Contains reusable methods that enforce custom validation rules on the **Passenger** object.
- **Apex Trigger:** Automatically calls the validation method before a Passenger record is inserted, ensuring mandatory fields are checked.
- **Apex Test Class:** Validates the logic through unit testing, ensuring that the trigger behaves correctly and achieves over 75% code coverage—a Salesforce deployment requirement

### 1.1 Apex Class: PhnValid\_PassengerObj.cls

```
public class PhnValid_PassengerObj {  
    public static void valMethod(List<Passenger__c> newPass) {  
        for (Passenger__c p : newPass) {  
            if (p.Phone__c == null) {  
                p.Phone__c.addError('Please enter phone number');  
            }  
        }  
    }  
}
```

### 1.2 Apex Trigger: PhnValidTrigger

```
trigger PhnValidTrigger on Passenger__c (before insert) {  
    if (Trigger.isBefore && Trigger.isInsert) {  
        PhnValid_PassengerObj.valMethod(Trigger.new);  
    }  
}
```

```
}  
}
```

### 1.3 Apex Test Class: PhnValid\_TestClass

@isTest

```
public class PhnValid_TestClass {  
    @isTest  
    public static void testClass() {  
        List<Passenger__c> varlis = new List<Passenger__c>();  
        Passenger__c var = new Passenger__c();  
        var.Phone__c = null;  
        varlis.add(var);  
        insert varlis;  
        PhnValid_PassengerObj.valMethod(varlis);  
    }  
}
```

## 2. DATASET

### 2.1 Dataset Creation

To validate and test the Airline Management System, **sample datasets** were manually created for each key custom object. A minimum of **10 records** were entered for the following Salesforce custom objects:

- ✈️ **Flight**
- 🧑 **Passenger**
- 📄 **Booking**
- 👮 **Crew**

### 2.1.1 ✈️ Flight Object Dataset

To simulate real-world airline operations, 10 sample flight records were created in the **Salesforce Lightning App**. Each record includes critical information such as:

- **Flight Name**
- **Departs From (Origin)**
- **Departs To (Destination)**
- **Capacity**
- **PNR Number**
- **Departure Time**
- **Arrival Time**

These records help model realistic scheduling, route management, and passenger planning scenarios within the system.

The screenshot displays the Salesforce Lightning App interface for 'AirLine Manageme...'. The top navigation bar includes a search bar and tabs for 'Flights', 'Passengers', 'Bookings', 'Crews', 'Reports', and 'Dashboards'. The main content area is titled 'Flight Delta Air Lines' and shows a 'Details' tab. The details are organized into two columns: the left column lists flight attributes with edit icons, and the right column shows ownership and modification information.

Related	Details
Flight Name	Owner
Delta Air Lines	Vishal Manibabu Kasukurthi Team
Capacity	
250	
Departure Date	
6/13/2025	
Departs to	
Bengaluru	
PNR Number	
7,845,643,565	
Departure Time	
12:15:00 AM	
Arrival Time	
4:15:00 AM	
Departs From	
Mumbai	
Created By	Last Modified By
Vishal Manibabu Kasukurthi Team , 6/21/2025, 10:10 AM	Vishal Manibabu Kasukurthi Team , 6/25/2025, 2:52 AM


## 2.1.2 Passenger

### Passenger Records Creation

A total of **10 Passenger records** were created within the **Airlines Management System** to represent various travelers booking flights through the platform. Each record includes essential personal and travel-related information such as:

- **Passenger Name**
- **Phone Number**
- **Passport Details**
  - Passport Number
  - Issue Date
  - Expiry Date
- **Date of Birth**
- **Nationality** (*selected from a predefined picklist*)

These records were created via the **Passenger** tab in the **Salesforce Lightning App**, allowing for realistic passenger data simulation for testing and validation purposes.

 Passenger

Bk-0011

Related

Details

Passenger Id

Bk-0011

Name

bhagii

Phone

(789) 145-2367

Passport Number

4366,918

Passport Issue Date

6/4/2025

Passport Expiry Date

6/12/2036


Date of Birth

6/2/1989


Nationality

India


Created By

 Vishal Manibabu Kasukurthi Team . 6/21/2025, 10:04 AM

Owner

 Vishal Manibabu Kasukurthi Team

Last Modified By

 Vishal Manibabu Kasukurthi Team . 6/21/2025, 10:04 AM


## 2.1.3 Booking

### Booking Records Creation

A total of 10 Booking records were created to simulate real-time flight reservation scenarios within the Airline Management System. Each booking represents a passenger reserving a seat on a scheduled flight.

Each Booking record includes the following key details:

- Booking ID
- Passenger Name
- Flight Name
- Booking Date
- Seat Number
- Booking Status
- Payment Status

 Booking  
**Bk-0007**

Related

Details

Booking Id  
Bk-0007

Passenger Name  
[Bk-0006](#)

Departs From  
Bengaluru

Departs To  
Delhi


Travellers  
Child


Class  
Economy


Flight  
[Air India](#)

PNR Number  
7,845,643,565

Departure Date

Owner  
 [Vishal Manibabu Kasukurthi Team](#)

Created By  
 [Vishal Manibabu Kasukurthi Team](#) · 6/21/2025, 10:07 AM

Last Modified By  
 [Vishal Manibabu Kasukurthi Team](#) · 6/25/2025, 3:01 AM

These entries were created using the Booking tab in the Salesforce Lightning App, enabling end-to-end testing of flight reservation workflows and data integrity across related objects.


## 2.1.4. Crew

### Crew Records Creation

A total of **10 Crew records** were created in the **Airline Management System** to represent the personnel responsible for flight operations. These records include pilots, co-pilots, and flight attendants assigned to various flights.

Each Crew record captures the following essential details:

- **Crew Member Name**
- **Role** (e.g., *Pilot, Co-Pilot, Flight Attendant* — from a picklist)
- **Employee ID**
- **Phone Number**
- **Email Address**
- **Assigned Flight** (linked from the *Flight object*)
- **License/Certification Number**
- **Availability Status** (e.g., *Available, On Duty, Off Duty* — from a picklist)

 Crew  
Bk-0006

Related

Details

Crew Id  
Bk-0006

Flight  
[Lufthansa](#)


Crew Member  
junnu


Phone  
(789) 145-2367


Email  
airline123@gmail.com

Qualification  
b tech

Role  
Air Stewardesses

Created By  
 Vishal Manibabu Kasukurthi Team · 6/21/2025, 10:18 AM




Owner  
 Vishal Manibabu Kasukurthi Team

Last Modified By  
 Vishal Manibabu Kasukurthi Team · 6/21/2025, 10:18 AM

# OVERVIEW

This Airline Management System (AMS) project is built on the **Salesforce platform** and integrates both backend logic and frontend visualization to deliver a complete airline operations solution.

It includes:

-  **Apex Classes, Triggers, and Test Classes** to implement core business logic, automate processes, and ensure robust data validation.
-  **Dashboard Reports and Analytics** to monitor operations in real-time with visual insights into bookings, flights, and crew allocations.
- ✈️ **Sample Datasets** for key custom objects — *Passenger*, *Flight*, *Booking*, and *Crew* — created to simulate real-world airline scenarios and support testing.
-  **Output Screenshots** from the Salesforce Org, showcasing:
  - Successful record creation and execution
  - Custom error handling via validations and triggers
  - The custom Lightning App interface
  - Report views and charts

This project demonstrates the seamless integration of **business logic**, **automation**, and **visual reporting** using Salesforce Lightning Experience, making it a scalable and user-friendly airline management solution.