

AIRLINES MANAGEMENT SYSTEM

Team ID : LTVIP2024TMID11598

Team Size : 4

Team Leader : P HARIPRASATH

Team member : R YUVARAJ

Airlines Management System

Hardware Required:

laptops

System Required:

Windows 8 machine Install with two web browser Bandwidth of 30mbps

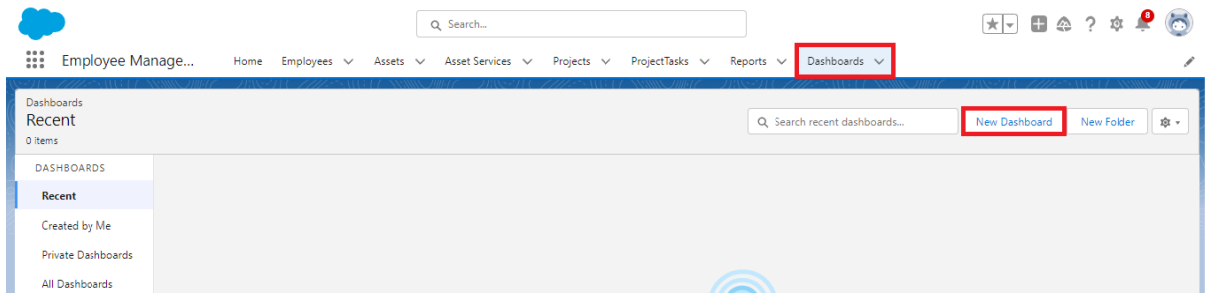
This project aims to enhance the efficiency and effectiveness of managing flights, reservations, and passenger information. The system enables airlines to manage their fleet, schedule flights, allocate seats, and handle bookings seamlessly. It provides functionalities for ticket reservations, seat availability checks, passenger check-ins, and baggage handling. Additionally, the system facilitates communication between airlines, airports, and passengers through automated notifications and alerts. With its user-friendly interface and robust database management, the Airlines Management System optimizes workflow, improves customer satisfaction, and ensures smooth operations for the entire airline industry.

MILESTONE 11 : DASHBOARDS

Activity 1

Create Dashboard

1. Go to the app --> click on the Dashboards tabs.



2. Give a Name and click on Create.

New Dashboard

*** Name**

Booking with Flights Component

Description

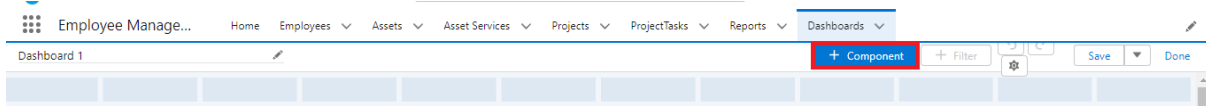
using the Booking with flight report

Folder

Private Dashboards [Select Folder](#)

[Cancel](#) [Create](#)

3. Select add component.



4. Select a Report and click on select.

Select Report

Reports

Recent

Created by Me

Private Reports

Public Reports

All Reports

Folders

Created by Me

Shared with Me

All Folders

Select Report

Search Reports and Folders...

Reports and Folders

Bookings with Flight Details
demo project - 28-Aug-2023, 11:51 am - Private Reports

Sample Flow Report: Screen Flows
Automated Process - 20-Jun-2023, 5:13 pm - Public Reports

[Cancel](#) [Select](#)

5. Select the Donut option under display as and click on Add.






Add Component






Report


Bookings with Flight Details

☐ Use chart settings from report

Display As







Value

Sum of Flight: PNR Number

Sliced By

Travellers

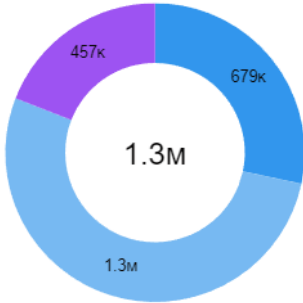
Preview

Bookings with Flight Details

Sum of Flight: PNR Number

Travellers

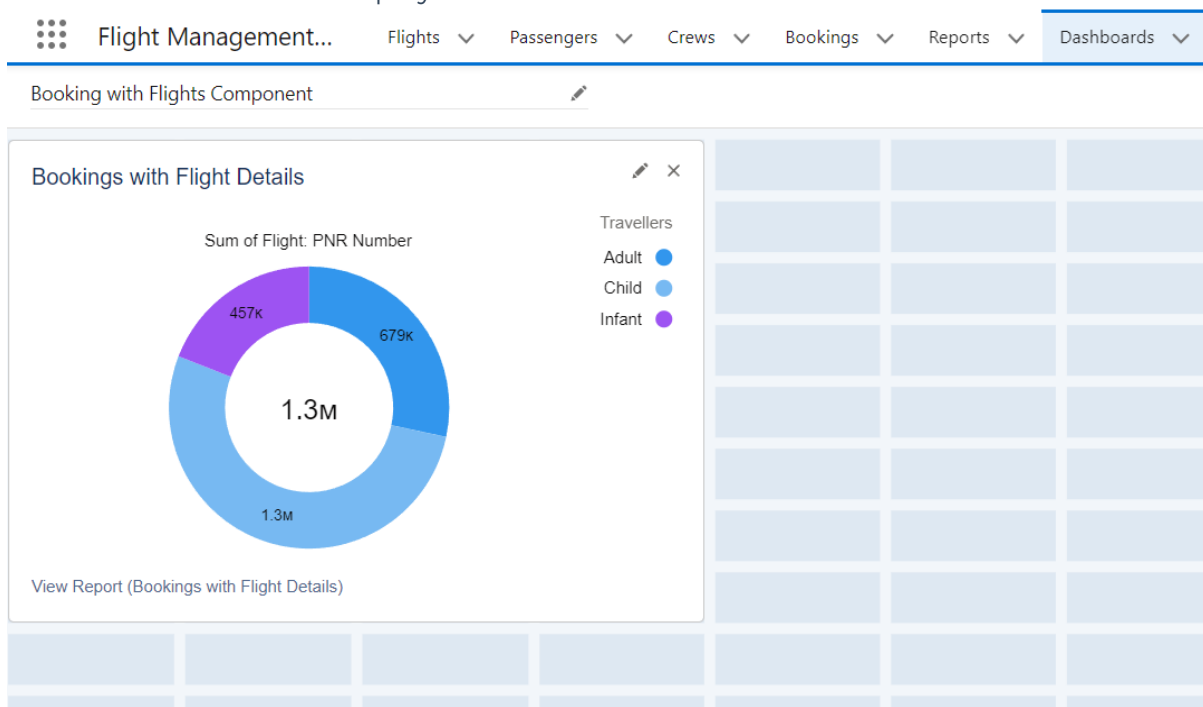
- Adult
- Child
- Infant



View Report (Bookings with Flight Details)

Cancel Add

6. Your dashboard display as below:



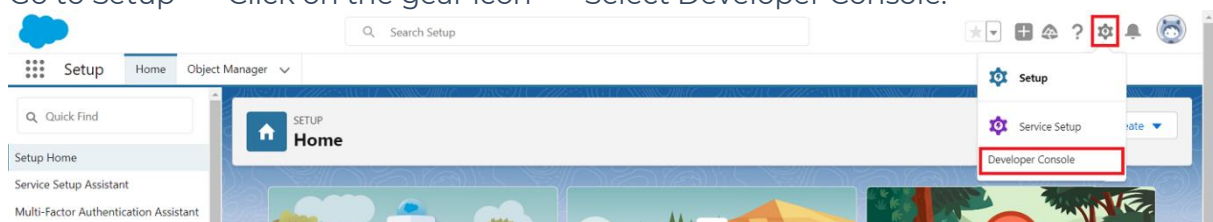
Activity 2

Create two more Dashboards using the reports which we have created in the milestone 10 activity 2.

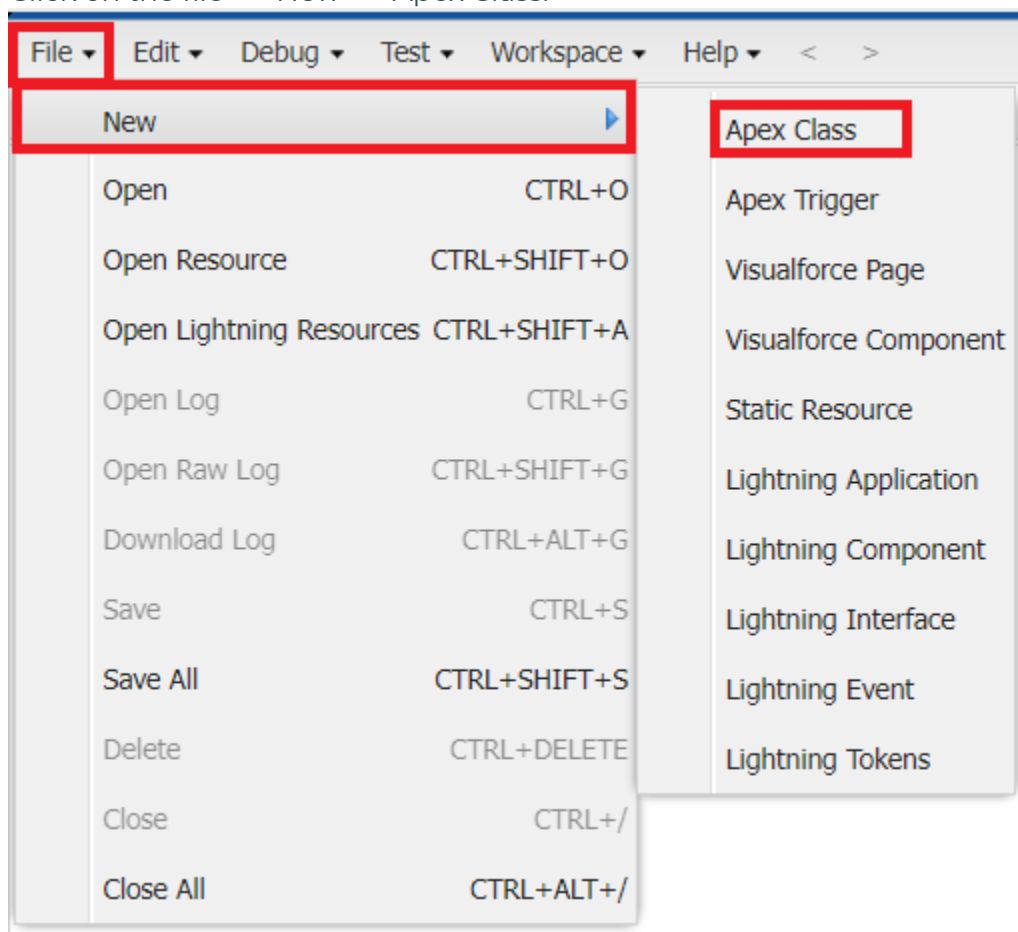
MILESTONE 12: APEX

Activity 1 : Create An Apex Class

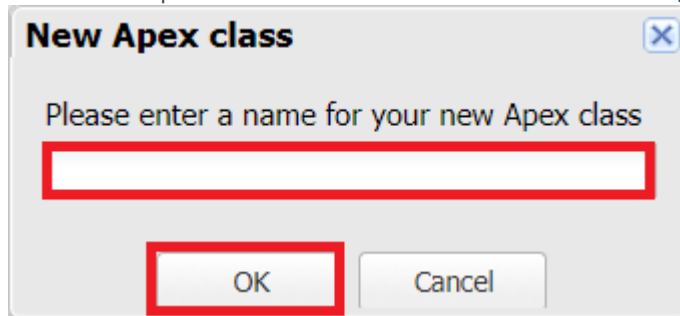
1. Go to Setup --> Click on the gear icon --> Select Developer Console.



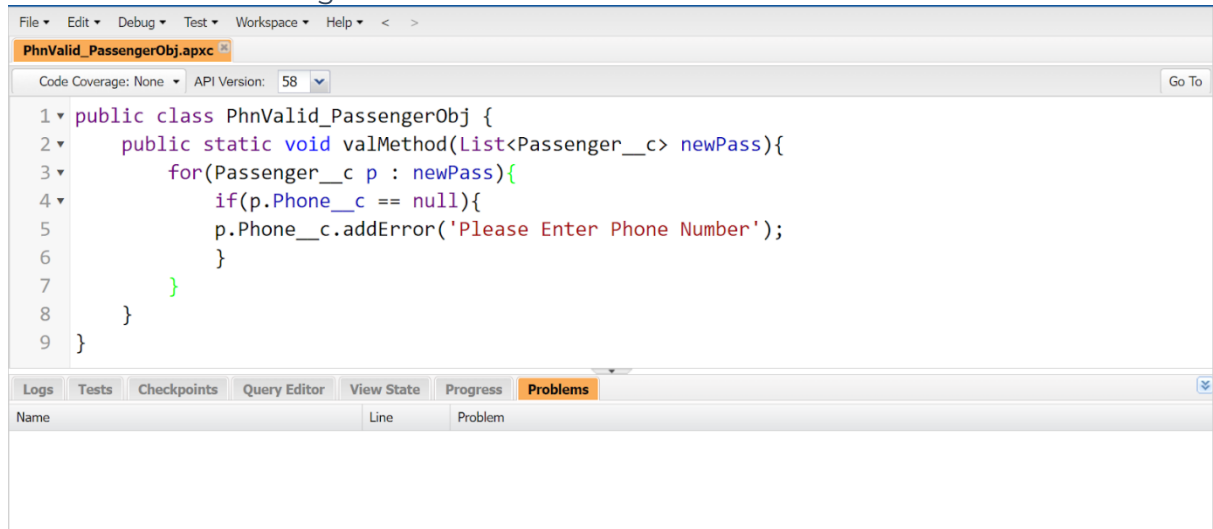
2. Then we can see the Developer console. Click on the developer console and you will navigate to a new console window.
3. To create a new Apex Class follow the below steps:
Click on the file --> New --> Apex Class.



4. Give the Apex Class name as “PhnValid_PassengerObj”.



5. Click ok.
6. Now write the code logic here



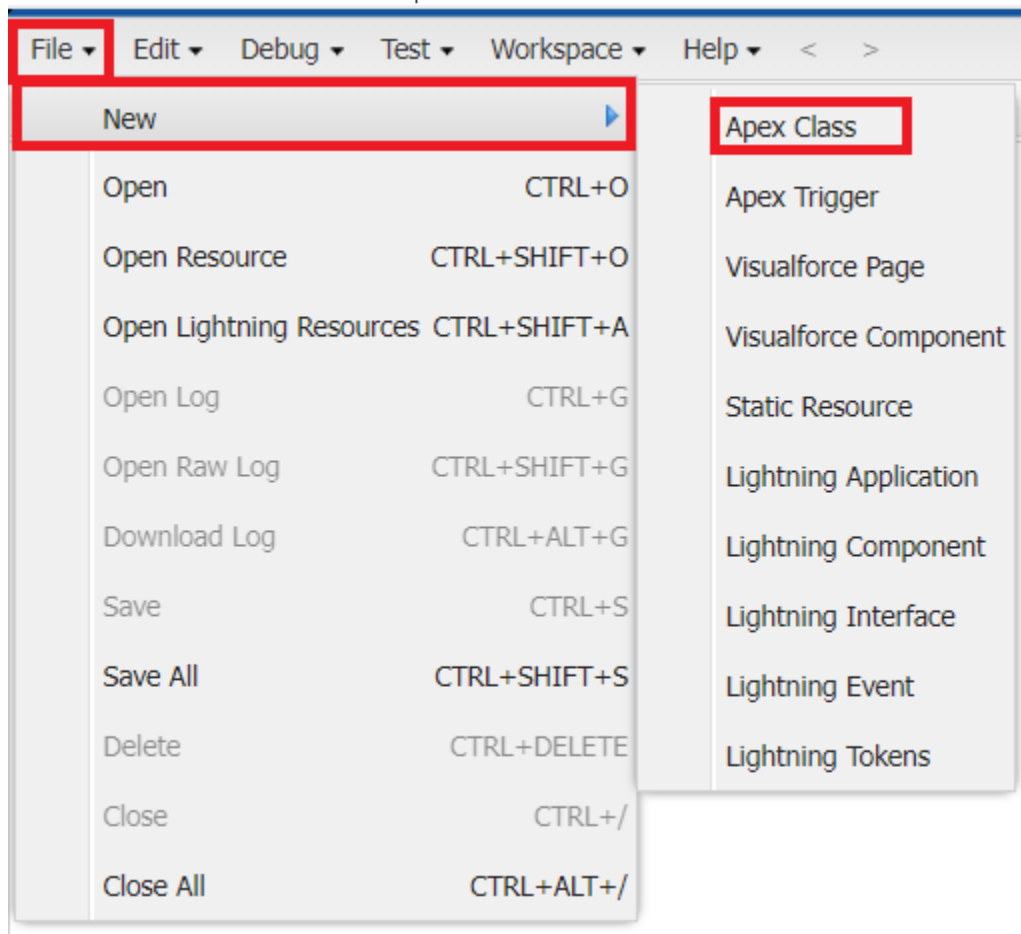
Source Snippet:

```
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');
            }
        }
    }
}
```

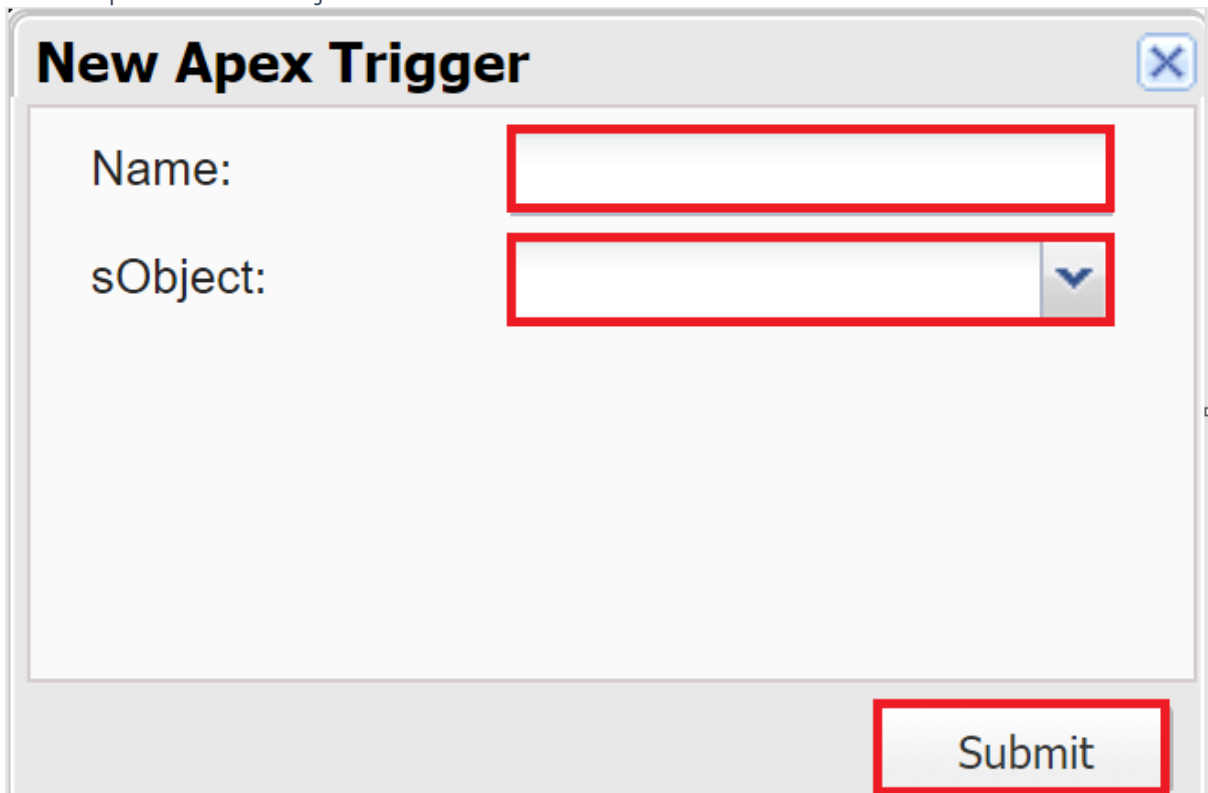
7. Save the code.(click on file --> Save)

Activity 2 : Create An Apex Trigger

1. To create a new Apex Class follow the below steps:
Click on the file --> New --> Apex Class.

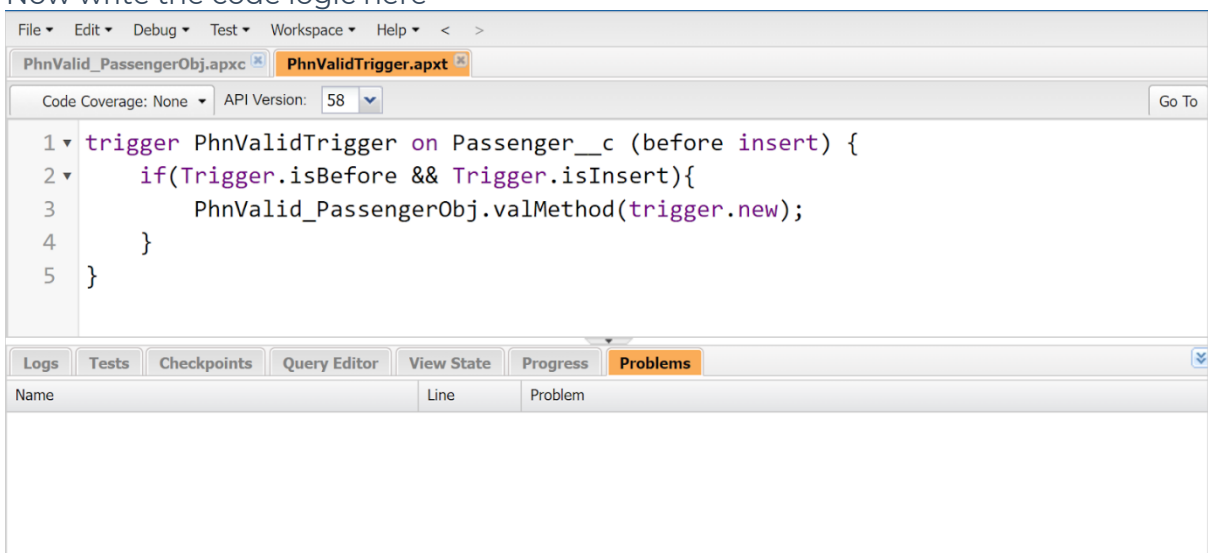


2. Give the Apex Trigger name as “PhnValidTrigger”, and select “Passenger__c” from the dropdown for sObject.



The image shows a 'New Apex Trigger' dialog box. It has a title bar with a close button. Inside, there are two fields: 'Name:' with a text input box, and 'sObject:' with a dropdown menu. Both fields are highlighted with red rectangles. At the bottom right, there is a 'Submit' button, also highlighted with a red rectangle.

3. Click Submit.
4. Now write the code logic here



The image shows the Apex IDE code editor. The top menu bar includes File, Edit, Debug, Test, Workspace, and Help. Below the menu bar, there are tabs for 'PhnValid_PassengerObj.apxc' and 'PhnValidTrigger.apxt'. The code editor shows the following code:

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

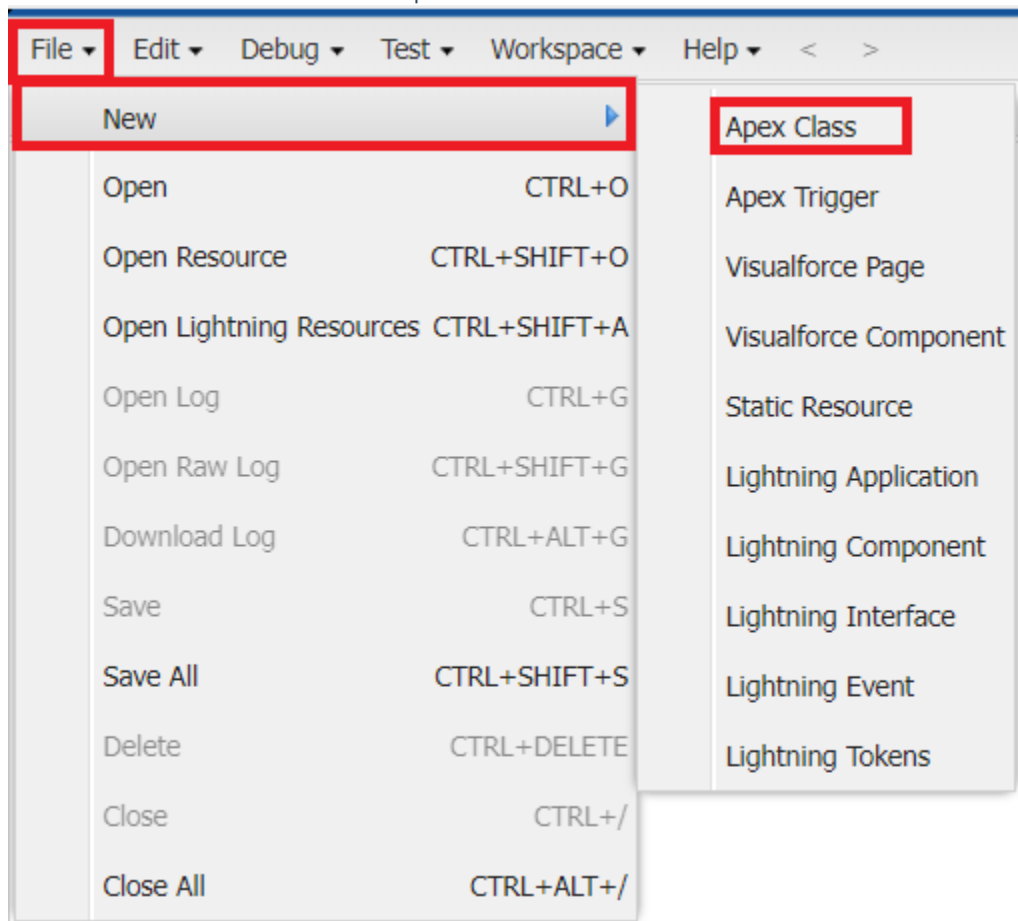
Below the code editor, there is a toolbar with buttons for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. At the bottom, there is a table with columns for Name, Line, and Problem.

Source Code:
trigger PhnValidTrigger on passenger__c (before insert) {
 if(trigger.isBefore && trigger.isInsert){
 PhnValid_PassengerObj.valMethod(trigger.new);
 }
}

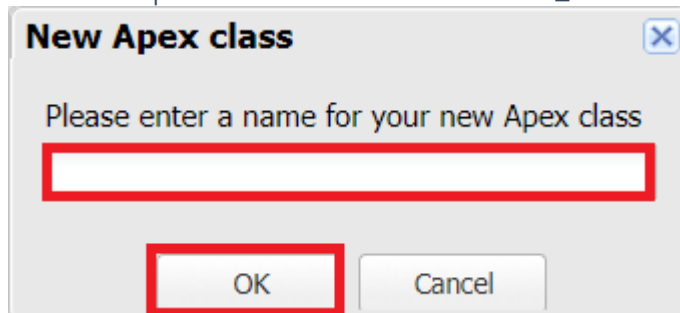
5. Save the code.(click on file --> Save)

Activity 3 : Create An Apex Test Class

1. To create a new Apex Class follow the below steps:
Click on the file --> New --> Apex Class.

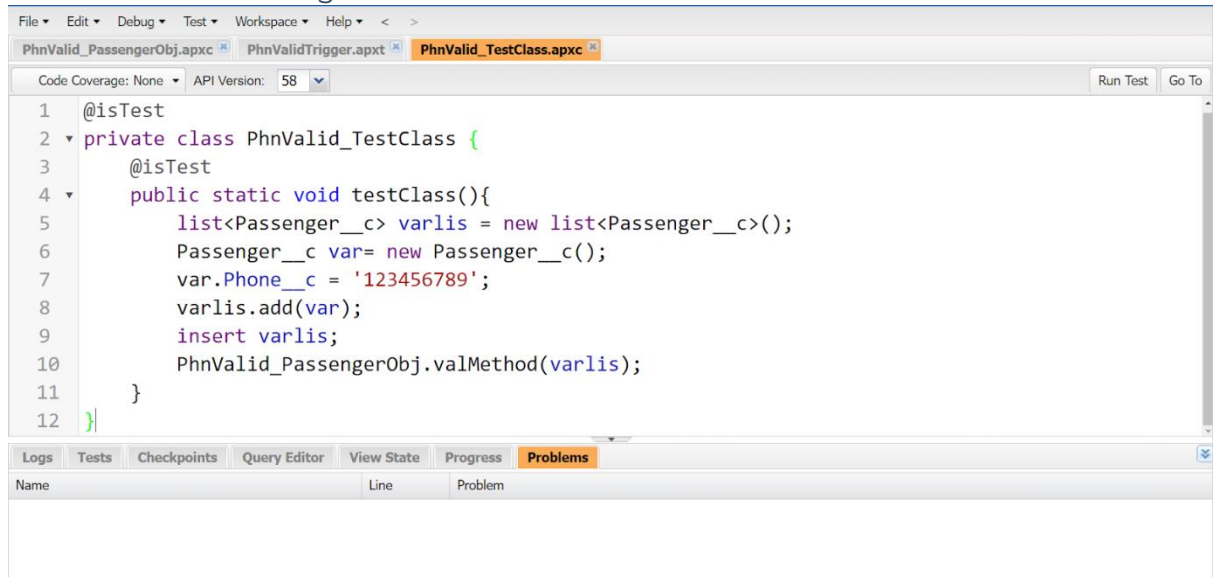


2. Give the Apex Class name as "PhnValid_TestClass".



3. Click ok.

4. Now write the code logic here

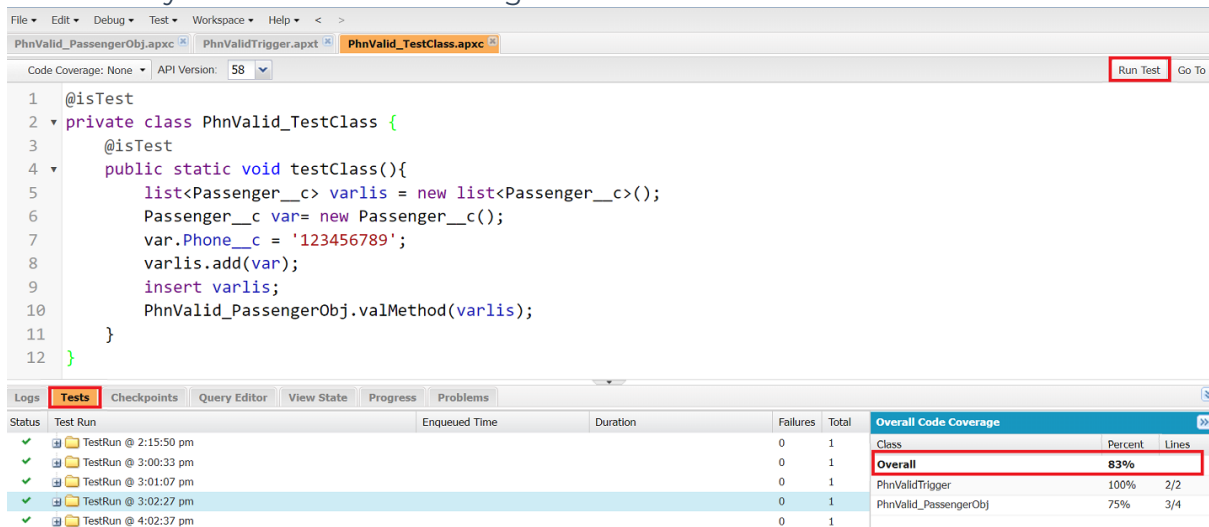


Source Code:

```
@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);
    }
}
```

5. Save the code.(click on file --> Save).

6. Click on “Run Test” and then click on Test under the terminal section and do check that your overall code coverage should be more than 75%.



The screenshot shows an IDE with a code editor and a terminal section. The code editor displays a test class named `PhnValid_TestClass` with a test method `testClass()`. The terminal section shows the results of a test run, including a table of overall code coverage.

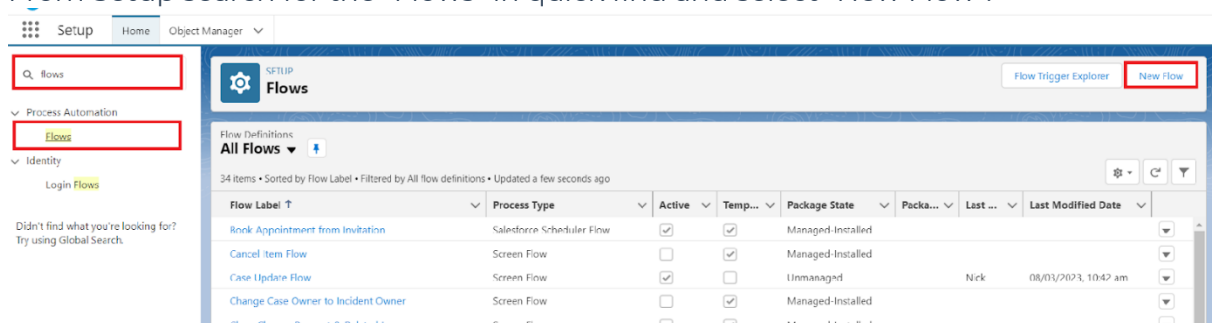
Class	Percent	Lines
Overall	83%	
PhnValidTrigger	100%	2/2
PhnValid_PassengerObj	75%	3/4

MILESTONE 13 : FLOWS

Activity 1 : Creating A Screen Element On Booking Object

Let's start by creating a screen flow and adding a screen to it.

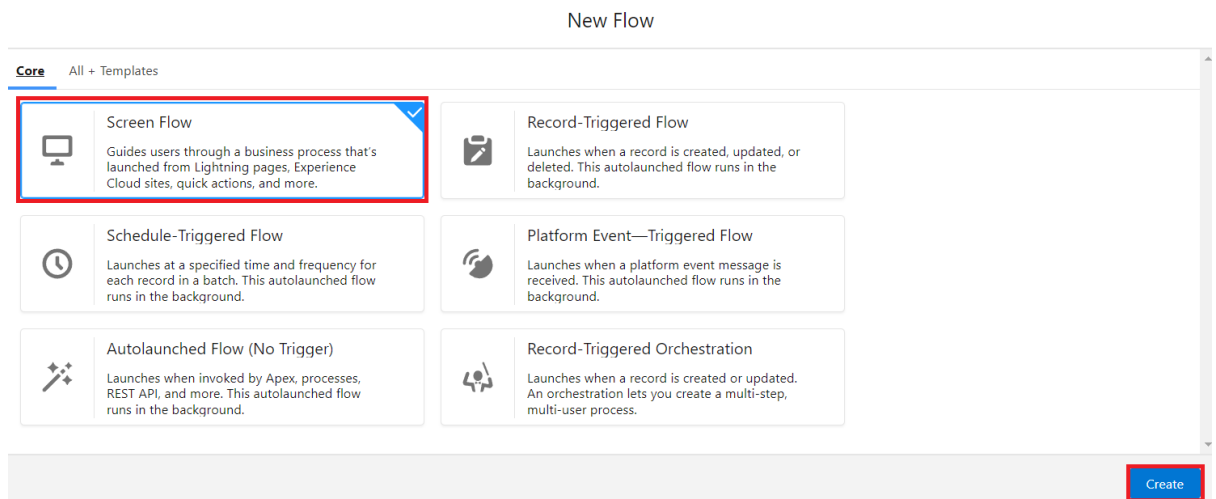
1. From Setup search for the “Flows” in quick find and select “New Flow”.



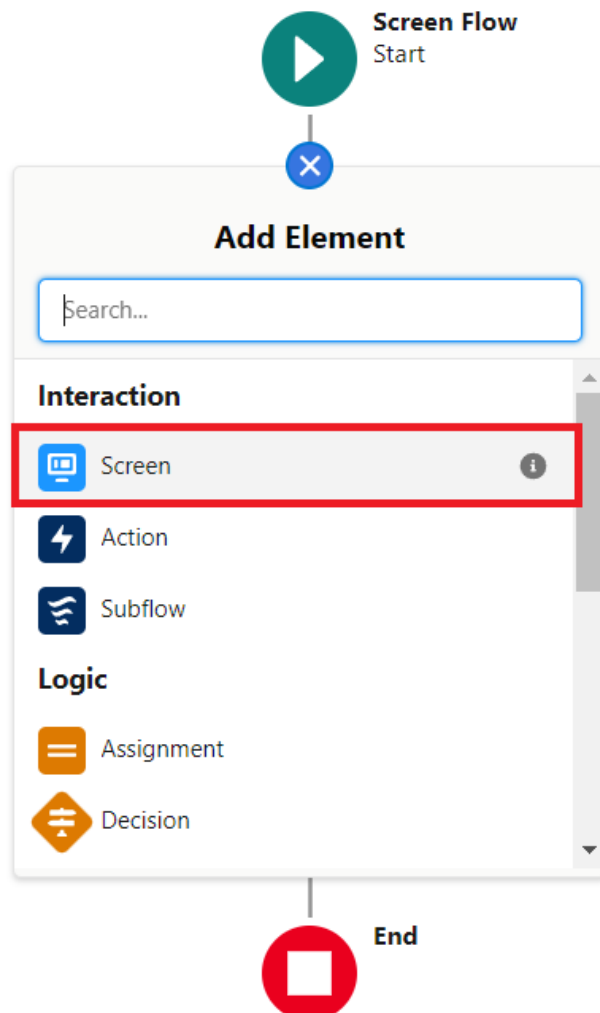
The screenshot shows the Salesforce Setup interface. The left sidebar contains a search bar with the text "flows" and a list of items under "Process Automation" and "Identity". The main content area shows the "Flows" section with a table of flow definitions.

Flow Label ↑	Process Type	Active	Temp...	Package State	Packa...	Last ...	Last Modified Date
Book Appointment from Invitation	Salesforce Scheduler Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Cancel Item Flow	Screen Flow	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Case Update Flow	Screen Flow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unmanaged	Nick	08/03/2023, 10:42 am	
Change Case Owner to Incident Owner	Screen Flow	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			
Close Change Request & Related Issues	Screen Flow	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed-Installed			

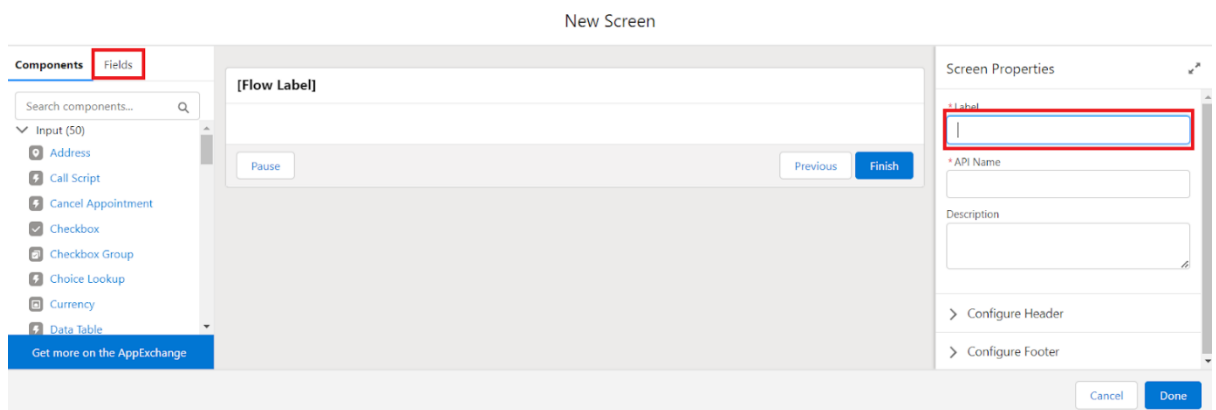
2. Select “Screen Flow” and then click on “Create”.



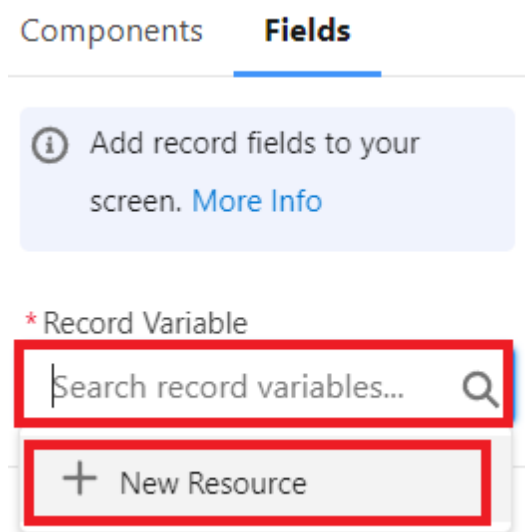
Place the cursor in between the Start and End element, a “+” icon appears, click on that and select “Screen”.



3. Give the label as “Booking Screen”, and select “Fields”.



4. Click on the lookup icon in the input field and select “New Resource”.



5. Filling the fields as given below:
 - a. API name : bookingObject
 - b. Datatype : Record
 - c. Object : Booking
 - d. Available for input : Checked
 - e. Available for output: Checked

New Resource

*** API Name**

A value is required

Description

*** Data Type**

Record

☐ Allow multiple values (collection) ⓘ

*** Object**

Search objects...

Availability Outside the Flow

☐ Available for input

☐ Available for output

Cancel Done

7. Click on done
8. Once you are done with the creation of a resource with the name "bookingObject" go back to step 5 and click on the lookup icon and select "bookingObject" from the list.
9. After selecting "bookingObject" you'll have all the fields which are in the object, drag and drop each field on the screen.
10. Your screen will look like as shown below:

Components Fields

Search Booking fields...

Fields (7)

- Class
- Departs From
- Departs to
- Departure Date
- Flight
- Passenger Name
- Travellers

Booking Screen Flow

Passenger Name

No preview is available for this component.

Flight

No preview is available for this component.

Departs From

No preview is available for this component.

Field Information

Object: Booking_c

Field Label: Flight

Field Name: Flight_c

Data Type: Lookup(Flight_c)

Required: No

Update: Yes

Compatible: Yes

Create: Yes

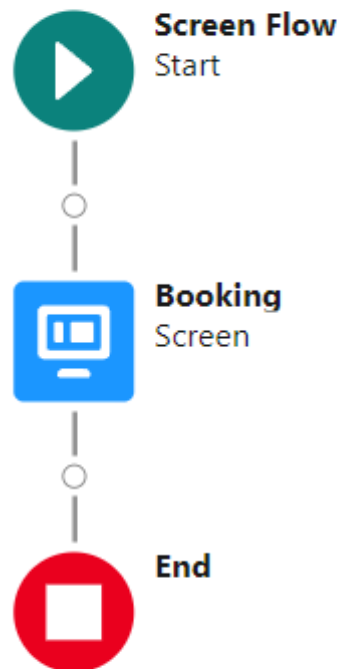
Compatible: Yes

ⓘ This field is managed in Object Manager. Your permissions affect the Update Compatible and Create.

Cancel Done

11. Click on done and Save.

12. The flow will look like as shown below.



Let's create a "Create Element" and add it to screen flow.

Activity 2 : Creating A Create Element On Booking Object

1. In the Create New path, hover over circle and click '+' icon in between booking screen and end.
2. Click Create Records.
3. In the New Create Records window, enter these values.

Field	Value
Label	Create Booking Record
API name	Gets autopopulated
How many records to create	one
How to set the record fields	Use separate resources and literal values

Object	Booking
--------	---------

New Create Records

Create Salesforce records using values from the flow.

<p>*Label</p> <input type="text"/> <p>A value is required.</p>	<p>* API Name</p> <input type="text"/>
<p>Description</p> <input type="text"/>	

How Many Records to Create

☒ One
☐ Multiple

How to Set the Record Fields

☐ Use all values from a record
☒ Use separate resources, and literal values

4. Map the fields as shown below:

Set Field Values for the Booking

Field	Value
Class__c	bookingObject > Class
Departs_From__c	bookingObject > Departs From
Departs_to__c	bookingObject > Departs to
Departure_Date__c	bookingObject > Departure Date
Flight__c	bookingObject > Flight
Passenger_Name__c	bookingObject > Passenger Name
Travellers__c	bookingObject > Travellers

+ Add Field

Cancel Done

5. Click Done.

Activity 3 : Creating A Success Screen Element

1. In the Create New path, hover over circle and click '+' icon in between Create Booking Record and end.
2. Click the Screen element.
3. Give a label name as "SuccessScreen".
4. From components search "Display text" and drag that component in the canvas and give an API Name as "SuccessMessage".
5. Inside the text area copy this message.

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}

Passengers Name: {!bookingObject.Passenger_Name__r.Passenger_Name__c}

We can't wait to see you!

6. Click Done
7. Save the flow and Activate it.

Thank you....!!

