

FUNCTIONAL & PERFORMANCE TESTING OUTPUTS

Date	26-06-2025
Team Id	LTVIP2025TMID31533
Project Name	Air Line Management System
College Name	Ideal Institute Of Technology

7.1 Output Screenshots

Trigger Error on Passport Expiry date

The screenshot shows a web form for passport application. The fields are: Name (Anjana), Phone (7891452367), Passport Number (4,366,918), Passport Issue Date (6/6/2025), Passport Expiry Date (7/1/2020), Date of Birth (6/23/2025), and Nationality (India). The Passport Expiry Date field is highlighted with a red border and a red error message: "Passport expiry date cannot be in the past." A red modal box with a close button (X) is displayed over the form, containing the text "We hit a snag." and "Review the following fields" with a bullet point: "Passport Expiry Date". At the bottom of the form, there are three buttons: "Cancel", "Save & New", and "Save". A red prohibition sign (a circle with a diagonal line) is located to the left of the "Cancel" button.

Trigger Validation Error When Passport Expiry Date Is in the Past

To ensure data accuracy, I implemented a before insert and before update Apex trigger that prevents a **Passenger** record from being saved if the **Passport Expiry Date** is in the past. This validation was handled using a custom Apex class and tested with both valid and invalid expiry dates.

Class Name: PassportExpiryValidator.cls

```
public class PassportExpiryValidator {  
    public static void validate(List<Passenger__c> passengers) {  
        for (Passenger__c p : passengers) {  
            if (p.Passport_Expiry_Date__c != null && p.Passport_Expiry_Date__c <  
Date.today()) {  
                p.Passport_Expiry_Date__c.addError('Passport expiry date cannot be in  
the past.');            }  
        }  
    }  
}
```

✓ This class checks each record's Passport Expiry Date and adds an error if the date is earlier than today.

Step 2: Created Apex Trigger

```
trigger PassportExpiryTrigger on Passenger__c (before insert, before update) {  
    if (Trigger.isBefore && (Trigger.isInsert || Trigger.isUpdate)) {  
        PassportExpiryValidator.validate(Trigger.new);  
    }  
}
```

Trigger Validation Error When Mobile Number Is Missing

* = Required Information

Information

Passenger Id

Name

bhagii

Phone

please Enter phone Number

Passport Number

4,366,918

Passport Issue Date

6/24/2025

Passport Expiry Date

6/12/2025

Date of Birth

6/18/2025

Nationality

India

Owner

Vishal Manibabu Kasukurthi Team

We hit a snag.

Review the following fields

- Phone

Cancel

Save & New

Save

To ensure data accuracy, I implemented a **before-insert Apex trigger** that prevents a **Passenger** record from being created without a mobile number. This validation was handled using a custom **Apex class** and tested with both valid and invalid inputs.

Step 1: Created a apex class

Class Name: 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');
        }
    }
}

```

This class checks every passenger record and throws an error if the phone number is missing.

Step 2: Created an Apex Trigger

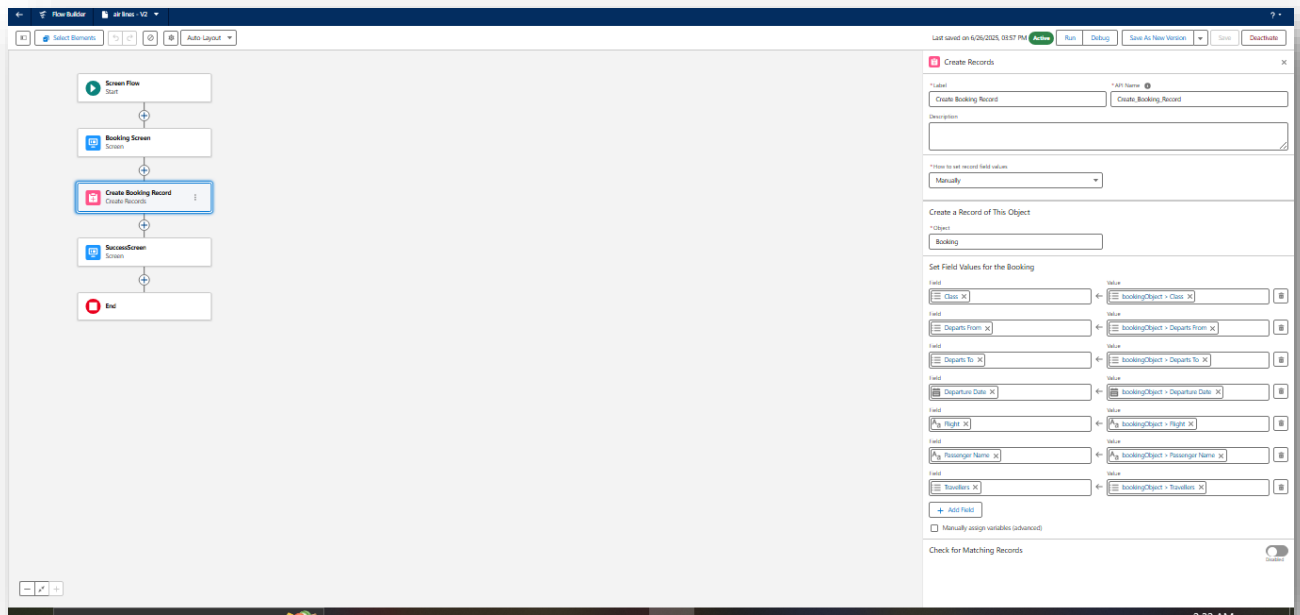
```

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

```

This trigger runs **before insert** and calls the validation method.

- **Designed a Booking Flow with input screens and a success message on completion.**




➤ Created sample Passenger and Booking records to demonstrate system functionality


AirLine Manage...
Flights
Passengers
Bookings
Crews
Reports
Dashboards

Booking
Bk-0001

Related
Details

Booking Id	Bk-0001	Owner	Vishal Manibabu Kasukurthi Team
Passenger Name	Bk-0008		
Departs From	Delhi		
Departs To	Mumbai		
Travellers	Infant		
Class	Economy		
Flight	Delta Air Lines		
PNR Number	7,845,643,565		
Departure Date			
Created By	Vishal Manibabu Kasukurthi Team , 6/21/2025, 10:05 AM	Last Modified By	Vishal Manibabu Kasukurthi Team , 6/25/2025, 3:02 AM

<div>  <div> <div>Search...</div> </div> </div>							
<div> <div>AirLine Manageme...</div> <div> <div>Flights</div> <div>Passengers</div> <div>Bookings</div> <div>Crews</div> <div>Reports</div> <div>Dashboards</div> </div> </div>							
<div> <div>Report: Bookings with Flight</div> <div>Booking with Passenger Name</div> </div>							
<div> <div>Total Records</div> <div>Total Flight: PNR Number</div> <div>10</div> <div>62,765,148,520</div> </div>							
<div> <div>Travellers</div> <div> <div>Adult (7)</div> </div> </div>	<div> <div>Booking: Booking Id</div> </div>	<div> <div>Flight: Flight Name</div> </div>	<div> <div>Class</div> </div>	<div> <div>Passenger Name</div> </div>	<div> <div>Departs From</div> </div>	<div> <div>Departs To</div> </div>	<div> <div>Flight: PNR Number</div> </div>
<div> <div>Adult (7)</div> </div>	Bk-0005	Lufthansa	Business	Bk-0003	Chennai	Kolkata	7,845,643,565
	Bk-0006	Delta Air Lines	Economy	Bk-0005	Delhi	Kolkata	7,845,643,565
	Bk-0004	Air France	Business	Bk-0002	Chennai	Delhi	7,845,643,565
	Bk-0008	SpiceJet	Economy	Bk-0007	Bengaluru	Kolkata	7,845,643,565
	Bk-0003	Singapore Airlines	First Class	Bk-0010	Chennai	Kolkata	7,845,643,565
	Bk-0010	Qatar Airway	Economy	Bk-0010	Mumbai	Bengaluru	7,845,643,565
	Bk-0009	United Airlines	Economy	Bk-0012	Delhi	Mumbai	7,845,643,565
Subtotal							54,919,504,955
<div> <div>Child (1)</div> </div>	Bk-0007	Air India	Economy	Bk-0006	Bengaluru	Delhi	7,845,643,565
Subtotal							7,845,643,565
<div> <div>Infant (2)</div> </div>	Bk-0001	Delta Air Lines	Economy	Bk-0008	Delhi	Mumbai	7,845,643,565
	Bk-0002	Qatar Airway	Economy	Bk-0009	Mumbai	Bengaluru	7,845,643,565
Subtotal							15,991,287,130
Total (10)							62,765,148,520

<div>  <div> <div>Search...</div> </div> </div>							
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<div> <div>Report: Bookings with Flight</div> <div>Crew with Flight</div> </div>							
<div> <div>Total Records</div> <div>Total Flight: PNR Number</div> <div>10</div> <div>62,765,148,520</div> </div>							
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	Bk-0006	Delta Air Lines	Delhi	Kolkata	7,845,643,565	Bk-0005	Economy
	Bk-0004	Air France	Chennai	Delhi	7,845,643,565	Bk-0002	Business
	Bk-0008	SpiceJet	Bengaluru	Kolkata	7,845,643,565	Bk-0007	Economy
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	Bk-0002	Qatar Airway	Mumbai	Bengaluru	7,845,643,565	Bk-0009	Economy
Subtotal					15,991,287,130		
Total (10)					62,765,148,520		

➤ Created a lighting app page

