

PROJECT FINAL REPORT

1. Introduction

Project Title : AIRLINE MANAGEMENT SYSTEM

College name : IDEAL INSTITUTE OF TECHNOLOGY

Team ID : LTVIP2025TMID29763

Team Size : 4

Team Members:

Team Leader	Kona Veera Venkata Sai Mounika mounikakona26@gmail.com
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1.INTRODUCTION:

1.1 PROJECT OVERVIEW

Airlines Management System

Hardware Required:

A laptop or computer with internet connection

Software Required:

Salesforce account or org

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.

It integrates critical functions like ticket booking, customer relationship management, flight scheduling, loyalty programs, and support services into a centralized digital ecosystem, reducing manual tasks and improving decision-making through real-time data insights.

1.2 Purpose of the Project

The primary purposes of implementing this system with Salesforce are:

1. Enhance Customer Relationship Management (CRM):

- Utilize Salesforce Service Cloud and Marketing Cloud to manage customer profiles, preferences, and history.
- Provide personalized services, support, and targeted marketing campaigns.

2. Streamline Sales and Ticketing Operations:

- Automate ticket bookings, cancellations, and rescheduling.
- Manage promotions and dynamic pricing using Salesforce Sales Cloud.

3. Improve Operational Efficiency:

- Centralize flight schedules, crew management, and logistics.
- Enable real-time updates and communication via Salesforce integrations.

4. **Enable Data-Driven Decision Making:**

- Use Salesforce Analytics and dashboards to track performance, revenue, and customer satisfaction.
- Forecast demand and optimize routes and resources.

5. **Enhance Passenger Experience:**

- Offer self-service portals, chatbots, and mobile support powered by Salesforce Experience Cloud and Einstein AI.
- Deliver consistent service across digital and physical touchpoints.

6. **Ensure Scalability and Security:**

- Leverage Salesforce's cloud infrastructure for high availability, data protection, and scalable growth.

2.IDEATION PHASE :

2.1 Brainstorm & Idea Prioritization

To develop an efficient, customer-centric, and scalable **Airline Management System** by leveraging advanced technologies like **Salesforce CRM, cloud computing, AI, and automation tools**. The system aims to streamline airline operations, improve passenger experiences, and enhance business intelligence.

We explored critical areas of airline management and generated innovative ideas:

1. Project Overview

Goal: Build a centralized Salesforce-based system to manage airline operations focusing on sales, customer service, ticketing, and loyalty programs.



Brainstorming: Key Modules & Ideas

Module	Ideas / Features	Priority	Salesforce Tools
Customer Management	360° customer profile, frequent flyer data, preferences	🔥 High	Sales Cloud, Service Cloud
Ticket Booking System	Integrate online booking, PNR management	🔥 High	Custom Objects, Flows
Flight Scheduling	Aircraft rotation, crew schedule, delay management	📄 Medium	Custom Apps
Revenue Management	Dynamic pricing, demand forecasting	🔥 High	Einstein Analytics

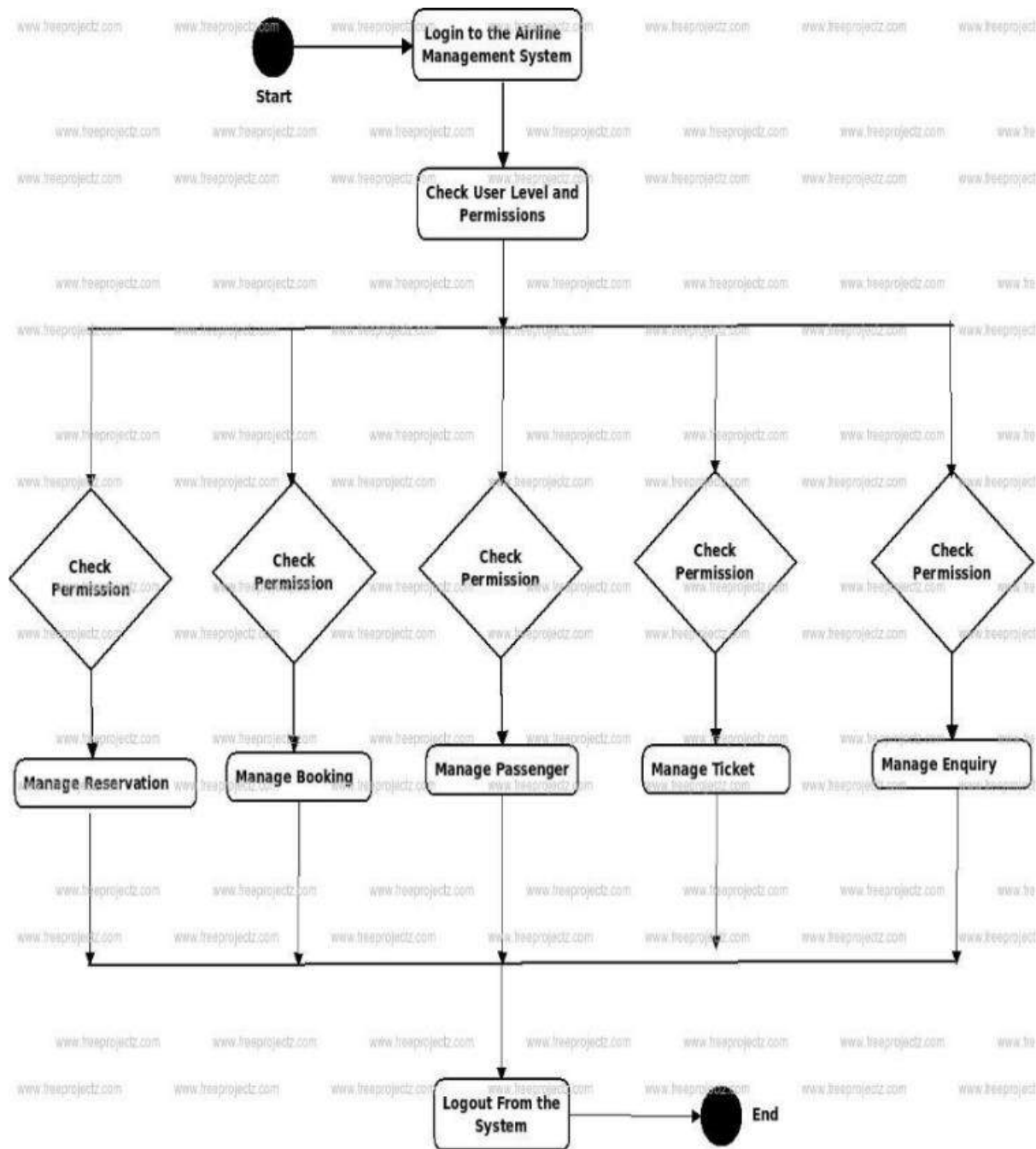
Loyalty Program (Miles)	Miles tracking, tier levels, redemption	🔥 High	Loyalty Management
Customer Service (Support)	Omnichannel support, chatbot, case routing	🔥 High	Service Cloud, Einstein Bot
Marketing Automation	Email campaigns, offers, segmentation	📦 Low	Marketing Cloud
Mobile App Integration	Ticket alerts, QR boarding passes	📦 Medium	Mobile SDK, API Integration
B2B Corporate Accounts	Manage travel agent/enterprise bookings	📦 Medium	Account Hierarchies
Feedback & Surveys	In-flight and post-travel survey automation	📦 Low	Survey Tool, Flow Builder

Prioritization Matrix

Priority	Features
High	Customer Management, Booking System, Revenue Mgmt, Loyalty, Support
Medium	Flight Scheduling, B2B Bookings, Mobile App
Low	Feedback System, Marketing Campaigns

Visual: Salesforce Airline Project Architecture

Here's a conceptual diagram (created below) to help illustrate how the system might connect.



Activity Diagram for Airline Management System

Suggested Project Flow (with visual stages)

1. Discovery & Requirement Gathering



2. Data Model Design (Flights, Tickets, Customers)



3. Custom App Development (Booking, Loyalty, etc.)



4. Integration (Payment Gateway, Mobile App, APIs)



5. Testing (UAT, Load, Security)



6. Deployment on Salesforce



7. Training & Go-Live

Tools for Implementation

- **Salesforce Clouds:** Sales Cloud, Service Cloud, Marketing Cloud, Loyalty Management
- **Integration:** REST APIs, MuleSoft, Mobile SDK
- **Automation:** Flow Builder, Apex, Process Builder
- **Analytics:** Tableau CRM (Einstein)

2.2 Empathy Map :

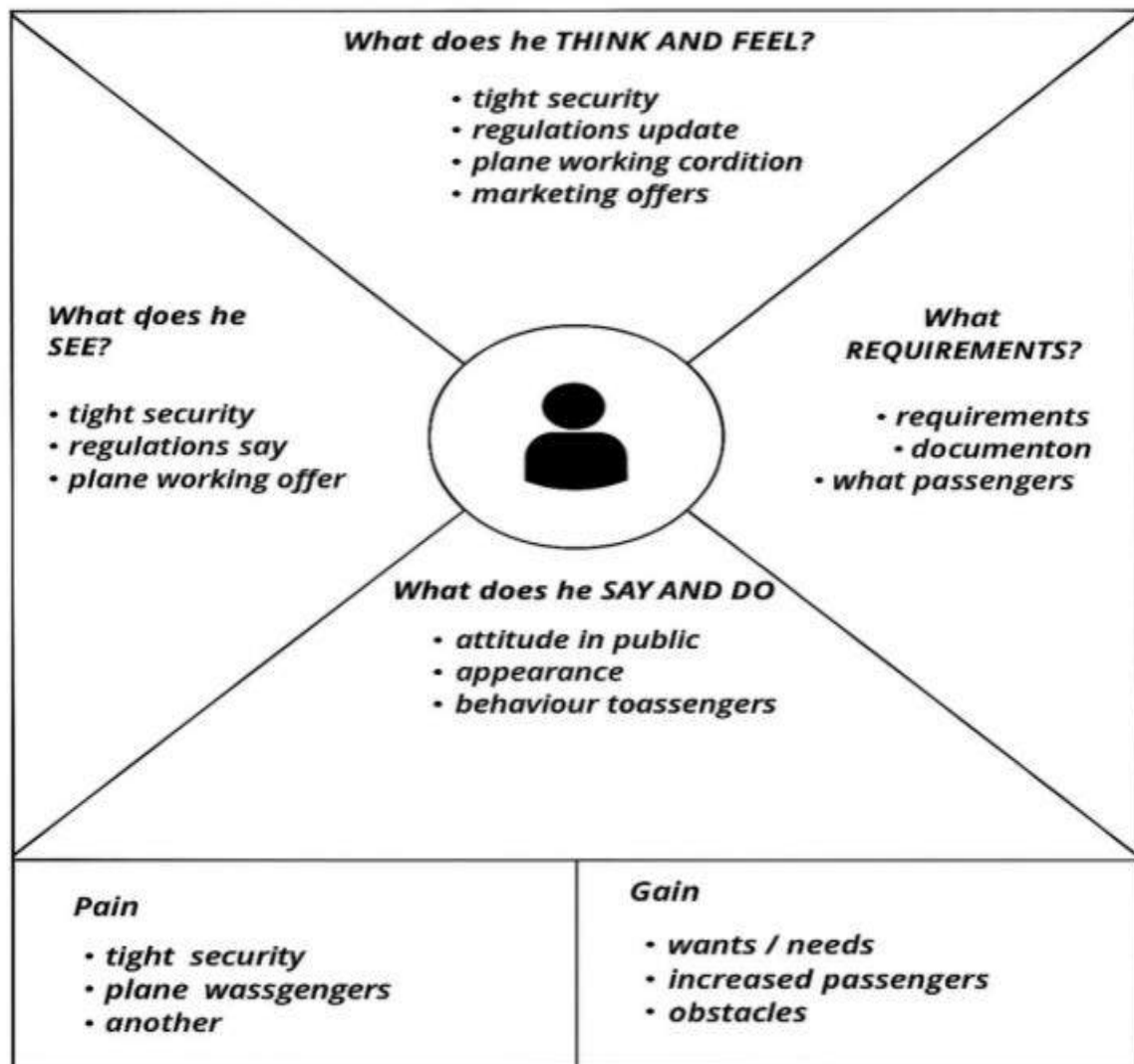
An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes.

An **Empathy Map** is a collaborative tool used to gain deeper insight into users' needs and experiences. For the **Salesforce-based Airline Management System project**, it helps understand the pain points, thoughts, and behavior of stakeholders like passengers, customer support agents, and operations staff.

Example:

Empathy Map for Airline Management System

project in Salesforce

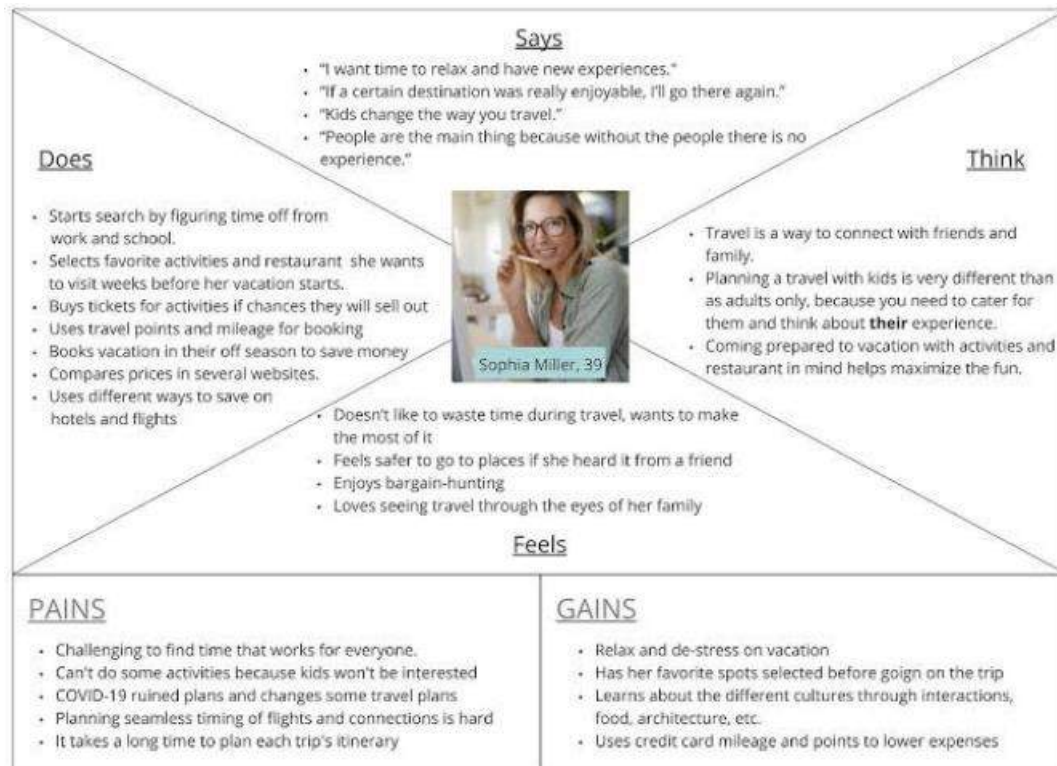


Creativecommons.org «/licenses/by-sa/4.0/»

Business Model Canvas

Reference: <https://www.mural.co/templates/empathy-map-canvas>

Example: Journey Experiencing



2.3 The Problem Statemen

Customer Problem Statement :

A **Customer Problem Statement** helps define the key pain points from the passenger's perspective, enabling better design and implementation of Salesforce-based solutions that enhance the customer experience.

In today's digital-first world, customers expect fast, seamless, and personalized service—especially when it comes to air travel. However, many airlines still rely on outdated or disconnected systems that create friction at every stage of the passenger journey. The Salesforce platform offers a modern, integrated solution to transform the customer experience.

I am	Describe customer with 3-4 key characteristics - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "job" the core about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way - what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists - what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view - how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Reference: <https://miro.com/templates/customer-problem-statement/>

Example:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a frequent airline passenger who books and manages travel online.	search flights, book tickets, check status, and get help easily.	the service is inconsistent across the website, app, and support.	the systems are not connected and lack real-time updates.	frustrated, ignored, and anxious about the reliability of my travel plans.
PS-2	a passenger who needs quick help when there's a flight delay or issue.	contact support and get updates without long wait times.	I often face delays, get unclear answers, or need to repeat my problem.	there's no single system that tracks my history or provides real-time info.	helpless, annoyed, and less likely to trust the airline.

Problem Statement (Passenger)

I am a passenger who frequently travels by air.

I'm trying to book flights quickly, check real-time flight updates, and manage my travel plans seamlessly.

But the current airline systems are often confusing, slow, and lack proper coordination between booking, check-in, and updates.

Because they are outdated, fragmented, and not optimized for user experience.

Which makes me feel frustrated, uncertain, and dissatisfied with the service.

Problem Statement (Airline Staff / Administrator)

I am an airline operations staff member responsible for managing flight schedules, bookings, and customer service.

I'm trying to coordinate daily operations, ensure timely updates, manage crew schedules, and respond to customer queries efficiently.

But the current system lacks integration, is prone to delays and errors, and doesn't provide real-time information.

Because different departments use disconnected tools, and manual processes are still heavily relied upon.

Which makes me feel stressed, overburdened, and unable to provide a smooth and reliable service to passengers.

3.REQUIREMENT ANALYSIS:

The Airline Management System (AMS) is designed to manage all operations related to airline services such as flight scheduling, ticket booking, crew management, customer management, and more. The system ensures efficiency, security, and convenience for both airline staff and customers.

3.1 CUSTOMER JOURNEY MAP

Customer Journey Map – Airline Management System

Stage	Customer Actions	Touchpoints	Customer Thoughts & Feelings	Opportunities for Improvement	Salesforce Support
1. Awareness	Searches for flights, sees ads, word-of-mouth	Social media, website, travel blogs, email ads	"I need to find a reliable airline."	Personalized marketing, SEO optimization	Marketing Cloud: targeted campaigns & analytics

2. Consideration	Compares prices, routes, services	Airline website, travel apps, online reviews	"Which airline gives me the best value?"	Transparent pricing, customer testimonials	CRM data for personalized offers
3. Booking	Selects flight, enters personal info, makes payment	Website, mobile app, customer care	"Is this secure? Did I choose the right flight?"	Simplified UI, secure payment gateway, loyalty perks	Service Cloud & Salesforce Payments Integration
4. Pre-Travel	Gets confirmation, checks in, chooses seats	Email, SMS, mobile app, chatbot	"Am I ready to fly? Where's my gate?"	Proactive notifications, mobile check-in	Salesforce Flow for automated updates
5. Travel	Arrives at airport, boards, takes flight	Airport kiosk, boarding gate, flight crew	"Hope everything goes smoothly."	Real-time gate info, customer support on-site	Mobile apps, IoT integration, Live Agent
6. Post-Travel	Feedback, claims, reward points, rebooking	Email survey, app, support portal	"How was my overall experience?"	Loyalty rewards, easy complaints, quick refunds	Experience Cloud for feedback, Loyalty Cloud
7. Retention	Receives offers, joins loyalty program, books again	Email, app, SMS	"Should I fly with them again?"	Personalized deals, thank-you emails, loyalty tier	Journey Builder + Einstein AI for tailored offers

3.2 SOLUTION REQUIREMENTS:

Functional Requirements:

Following are the functional requirements of the proposed solution.

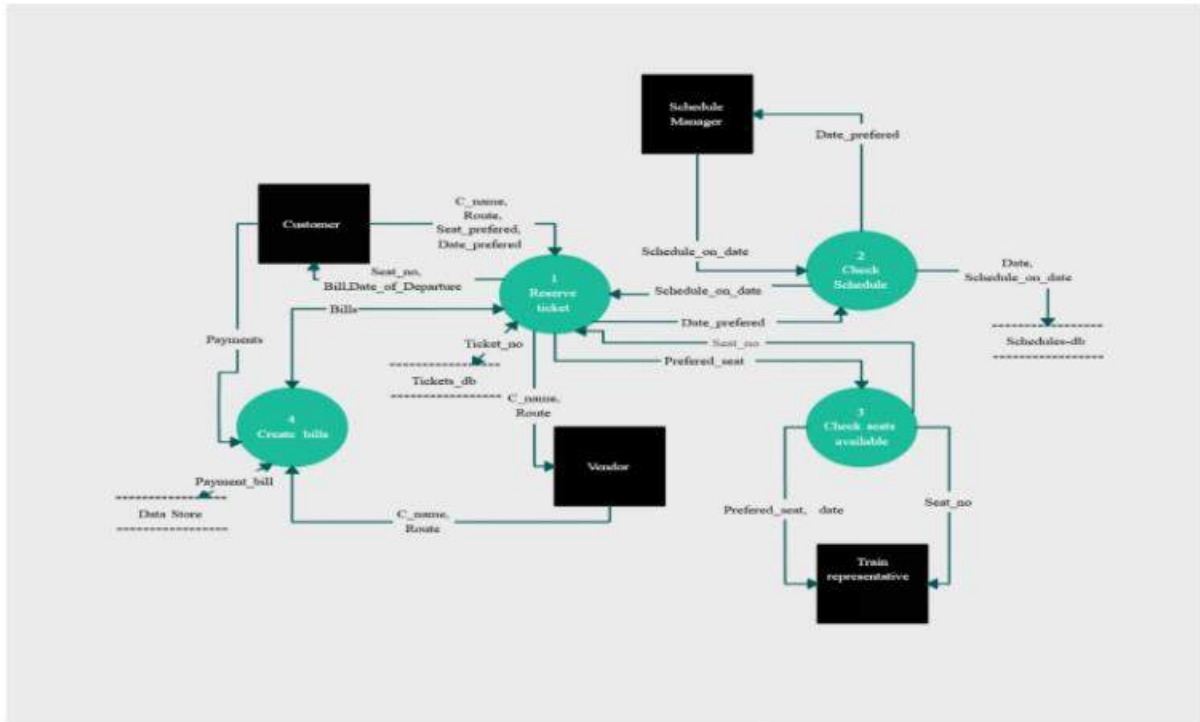
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Management	Register/login passengers, staff, and admins. Role-based access control (Passengers, Agents, Admins). Profile updates and account deactivation.
FR-2	Flight Scheduling	Add, update, cancel flights. Manage flight routes, timings, and aircraft assignments. Track real-time flight status.
FR-3	Reservation & Booking System	Search flights by date, route, or fare. Book or modify reservations. Generate booking confirmation and ticket.
FR-4	Payment Integration	Enable online payments (credit/debit, UPI, wallet). Generate invoices and track payment history. Refund and cancellation processing.
FR-5	Customer Relationship Management (CRM) via Salesforce	Store and manage customer interactions. Track customer preferences and feedback. Send promotional offers and updates via email/SMS.
FR-6	Check-in & Boarding Management	Online check-in system with seat selection. Issue boarding passes. Manage baggage details.

FR-7	Staff & Crew Scheduling	Assign pilots, cabin crew, and ground staff to flights. View and manage duty rosters. Track staff availability and performance.
FR-8	Reporting & Analytics	Generate sales, booking, and performance reports. Analyze customer behavior and operational metrics.
FR-8	Alerts & Notifications	Send reminders (flight status, gate changes, delays). Real- SMS/email updates to passengers and staff.

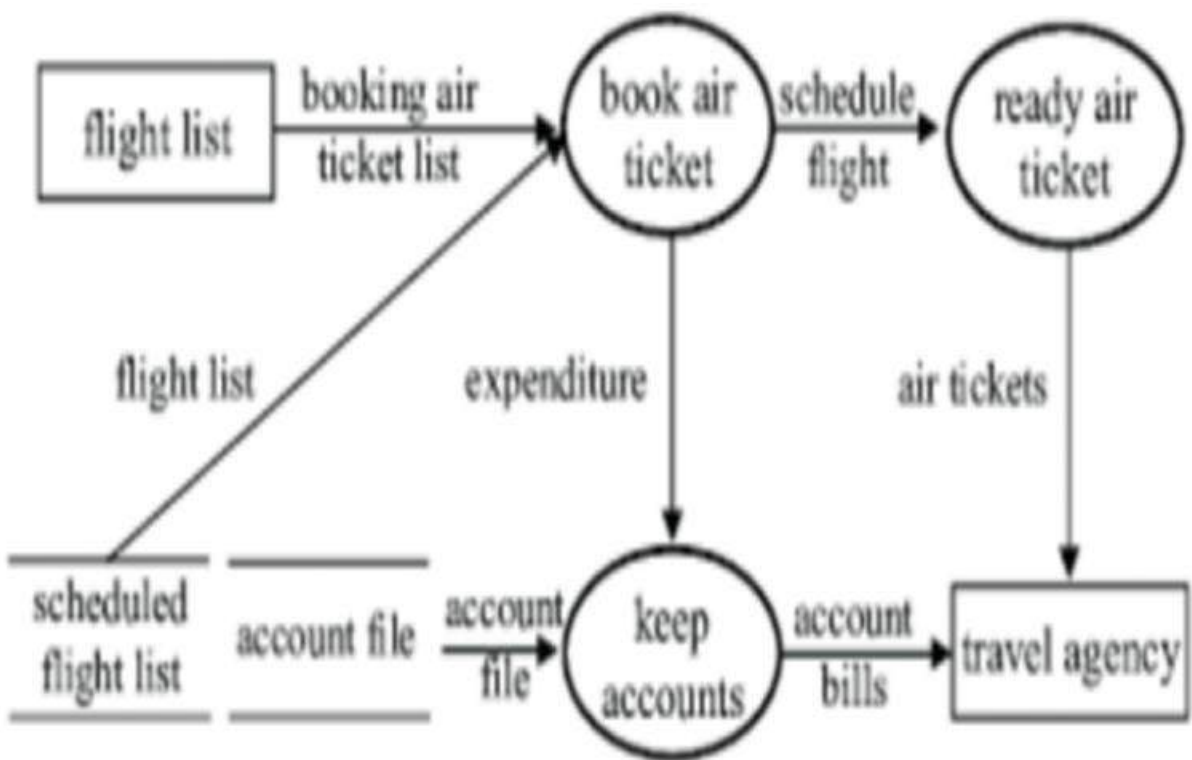
3.3 Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example:

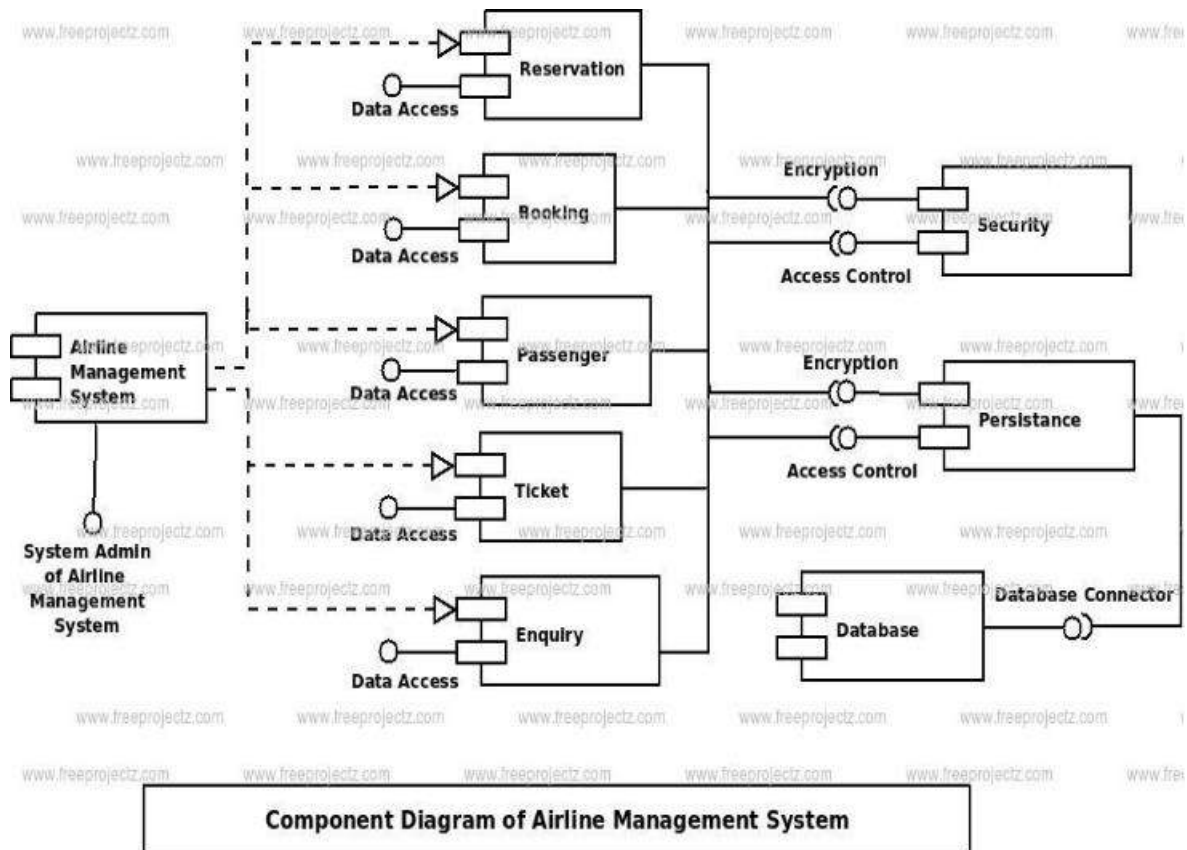


Example:



3.4 Technology Stack (Architecture & Stack)

Technical Architecture:



Example: Order processing during pandemics for offline mode

Reference: <https://www.mdpi.com/2673-8112/3/1/1>

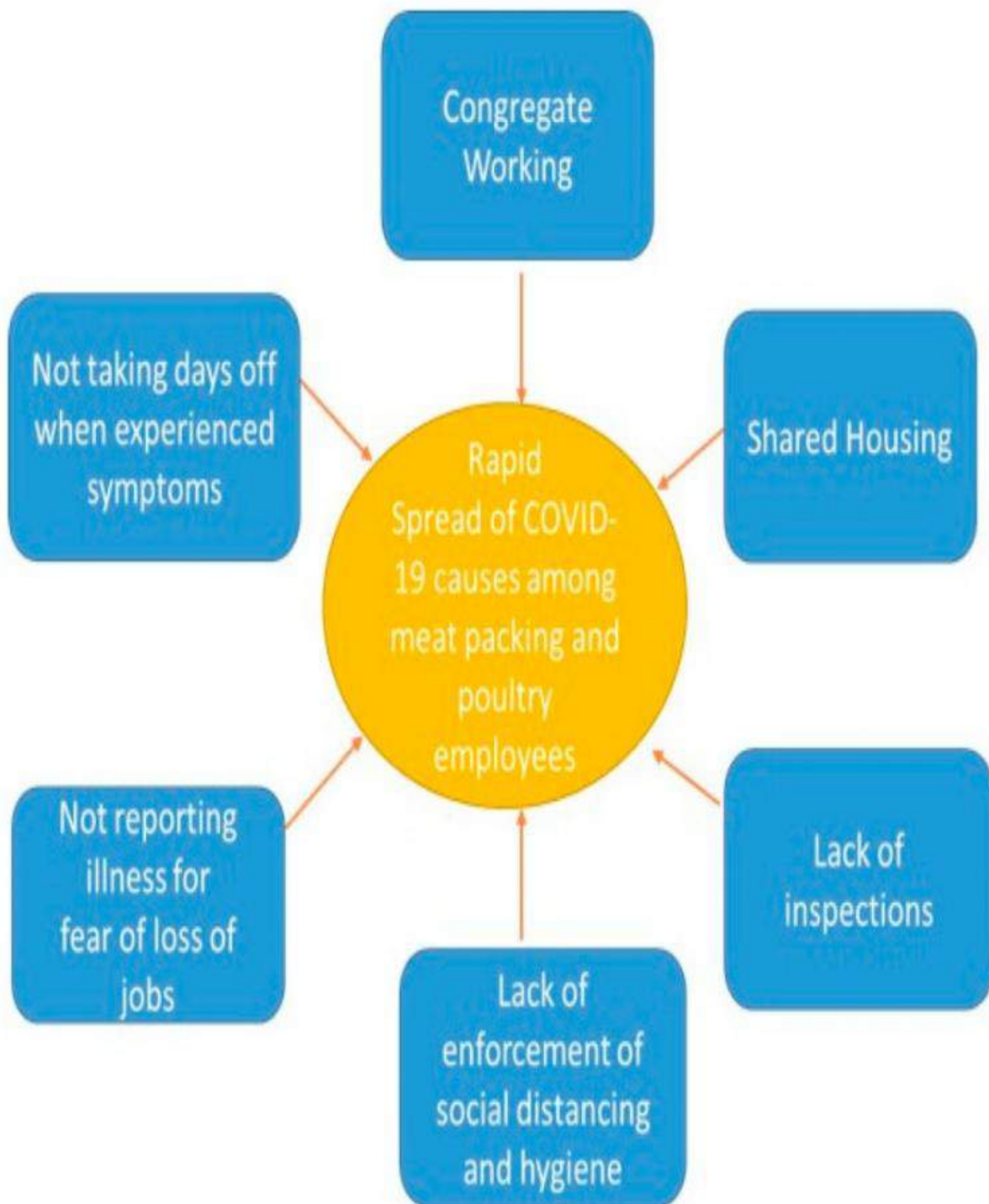


Table-1 : Components & Technologies:

Airline Management System – Components Table

Component	Description	Technology / Platform
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User Interface (UI)	Front-end for passengers, staff, and admins to interact with the system.	HTML, CSS, JavaScript, Salesforce Lightning	
Authentication Module	Manages user login, registration, and roles (passenger, staff, admin).	Salesforce Identity, OAuth 2.0, Apex	
Flight Management	Admin panel to create, edit, and manage flight schedules and aircrafts.	Apex, SOQL, Salesforce Objects, Lightning UI	
Reservation System	Handles flight search, seat availability, booking, and ticket generation.	Salesforce Service Cloud, Apex	
Payment Gateway	Processes online payments and refunds securely.	Stripe/PayPal Integration via Salesforce APIs	
CRM Integration	Maintains customer data, preferences, history, and marketing engagement.	Salesforce Sales Cloud / Marketing Cloud	
Check-in System	Enables web/mobile check-in, seat selection, and generates boarding passes.	Apex, Lightning Components, QR generation APIs	
Staff Management	Schedules pilots, cabin crew, and ground staff across flights.	Custom Salesforce App or third-party plugin	
Notification Engine	Sends alerts and reminders for flight status, offers, etc.	Salesforce Flow, Twilio API, Email Studio	
Analytics & Reporting	Provides dashboards for bookings, revenue, customer trends, etc.	Salesforce Einstein Analytics / Tableau CRM	
Mobile Access	Mobile-friendly interface for passengers and staff.	Salesforce Mobile App / React Native	

Database	Stores user, booking, flight, payment, and feedback data securely.	Salesforce Object Database (SObject), SOQL
Security Layer	Protects against unauthorized access and data breaches.	Salesforce Shield, Encryption,

Table-2: Application Characteristics:

Here's a comprehensive Application Characteristics Table for an Airline Management System with Salesforce integration:

Application Characteristics Table

Characteristic	Description	Technology / Tools
Scalability	Ability to handle growing number of users, bookings, and flights.	Salesforce Cloud Platform, Elastic Load Balancers
Availability	System should be accessible 24/7 with minimal downtime.	Salesforce High Availability Cloud, Multi-zone Hosting
Reliability	Ensures consistent service and accurate data processing.	Salesforce Platform, Redundancy Mechanisms
Security	Protects user data, prevents unauthorized access and breaches.	Salesforce Shield, Encryption, OAuth 2.0, 2FA
Usability	Easy and intuitive interface for all types of users.	Salesforce Lightning Design System (SLDS), Mobile-first UI
Performance	Fast response times for booking, check-in, and search operations.	Apex Optimization, Asynchronous Processing, Caching
Maintainability	Ease of updates, bug fixes, and feature additions.	Modular Apex Code, Salesforce DX, Git CI/CD
Integration	Seamless connection with payment, email, SMS, and CRM services.	REST APIs, SOAP APIs, Salesforce AppExchange
Portability	Usable across web and mobile devices.	Salesforce Mobile SDK, Responsive Web Design
Customizability	Easy to configure workflows, business logic, and UI based on airline needs.	Salesforce Flows, Apex Triggers, Lightning Components
Auditability	Tracks user activity and system changes for compliance.	Salesforce Field History Tracking, Audit Trail

Analytics Capability	Real-time and historical insights into bookings, performance, and behavior.	Salesforce Einstein Analytics, Reports & Dashboards
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4.PROJECT DESIGN

4.1 PROBLEM SOLUTION FIT :

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer’s problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

Solve complex airline operations challenges by aligning Salesforce solutions (like Sales Cloud, Service Cloud, Marketing Cloud) with real-world passenger and staff needs.

Improve solution adoption and speed of service by integrating with platforms customers already use — like mobile, email, and chat — through Salesforce Experience Cloud and Marketing Cloud.

Sharpen communication and support workflows using Service Cloud and Einstein AI, ensuring the right messages reach the right passengers at the right time.

Increase customer engagement and satisfaction by solving frequent issues like delayed updates, disconnected services, and poor support — with automated case routing, live dashboards, and unified customer profiles.

Gain deep understanding of current customer experiences and operational gaps through real-time reports and analytics in Salesforce, enabling continuous improvement.

Template:



References:

1. <https://www.ideahackers.network/problem-solution-fit-canvas/>

4.2 Proposed Solution :

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	Airlines need a unified system to fix slow service, poor support, and disconnected operations — improving speed, visibility, and customer satisfaction.
2.	Idea / Solution description	Build a Salesforce-based system to streamline bookings, automate support, and deliver real-time updates—enhancing passenger experience and airline efficiency.
3.	Novelty / Uniqueness	Integrates multiple Salesforce clouds into one seamless platform for airlines—offering real-time service, AI-driven support, and a unified customer view.

4.	Social Impact / Customer Satisfaction	Improves travel experience with faster service, better communication, and higher customer trust—leading to greater satisfaction and loyalty.
5.	Business Model (Revenue Model)	Revenue is generated through ticket sales, add-on services, and improved retention via personalized marketing powered by Salesforce.
6.	Scalability of the Solution	Built on Salesforce Cloud, the solution easily scales to support more users, flights, and features without compromising performance.

4.3 Solution Architecture:

The solution uses **Salesforce's cloud ecosystem** to create a fully integrated airline management platform that streamlines passenger services, operations, and communication.

- **360° Customer View**
Centralize traveler data from booking to post-flight, enabling better service and personalization..
- **Automation of Airline Operations**
Automate frequent tasks like ticket reissuance, flight reminders, delay alerts, etc.
- **Scalability and Flexibility**
Easily scale operations across routes, regions, and customer segments without rebuilding the system.
- **Enhanced Customer Experience**
Faster issue resolution, personalized travel suggestions, real-time updates, and loyalty tracking.

Example - Solution Architecture Diagram:

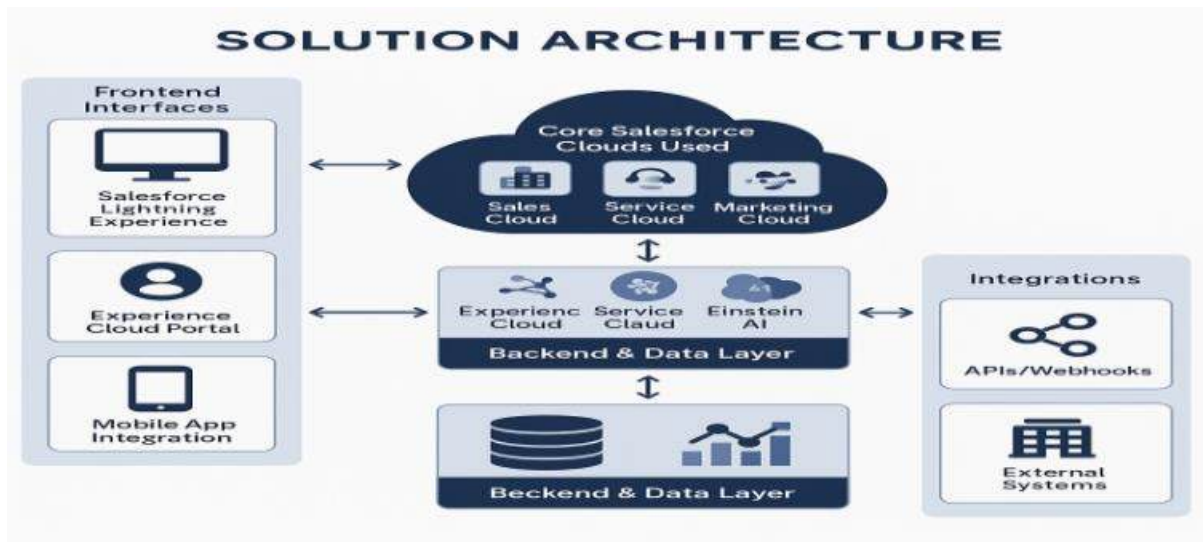


Figure 1: Architecture for Airline Management System Project.

Reference: <https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-research-powered-by-ai-on-aws-part-1-architecture-and-design-considerations/>

5.PROJECT PLANNING & SCHEDULING:

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points
Sprint-1	Flight Booking	USN-1	As a user, I can search and view available flights based on date and destination.	3
Sprint-1	Flight Booking	USN-2	As a user, I can book a selected flight and receive a confirmation email.	3
Sprint-2	User Management	USN-3	As an admin, I can add, edit, or delete user profiles.	2
Sprint-2	Payment Integration	USN-4	As a user, I can pay for flights using a credit card or UPI.	3
Sprint-3	Flight Management	USN-5	As an admin, I can add or remove flight schedules in the system.	2
Sprint-3	Booking History	USN-6	As a user, I can view my past and upcoming bookings.	2

Sprint-4	Check-In System	USN-7	As a user, I can check in online and download my boarding pass.	2
Sprint-4	Dashboard	USN-8	As an admin, I can view system statistics and booking analytics.	2
Sprint-5	Role-Based Access Control (RBAC)	USN-9	As a system, I can restrict access based on user roles (admin, customer, agent).	3
Sprint-5	Cancellation	USN-10	As a user, I can cancel my booked flight and receive a refund confirmation.	3

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Sprint Release Date (Actual)
Sprint-1	20	2 Days	17 Jun 2025	18 Jun 2025	17 Jun 2025
Sprint-2	20	2 Days	19 Jun 2025	20 Jun 2025	19 Jun 2025
Sprint-3	20	2 Days	21 Jun 2025	22 Jun 2025	21 Jun 2025
Sprint-4	20	2 Days	23 Jun 2025	24 Jun 2025	23 Jun 2025
Sprint-5	20	2 Days	25 Jun 2025	26 Jun 2025	25 Jun 2025

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile [software development](#) methodologies such as [Scrum](#). However, burn down charts can be applied to any project containing measurable progress over time.

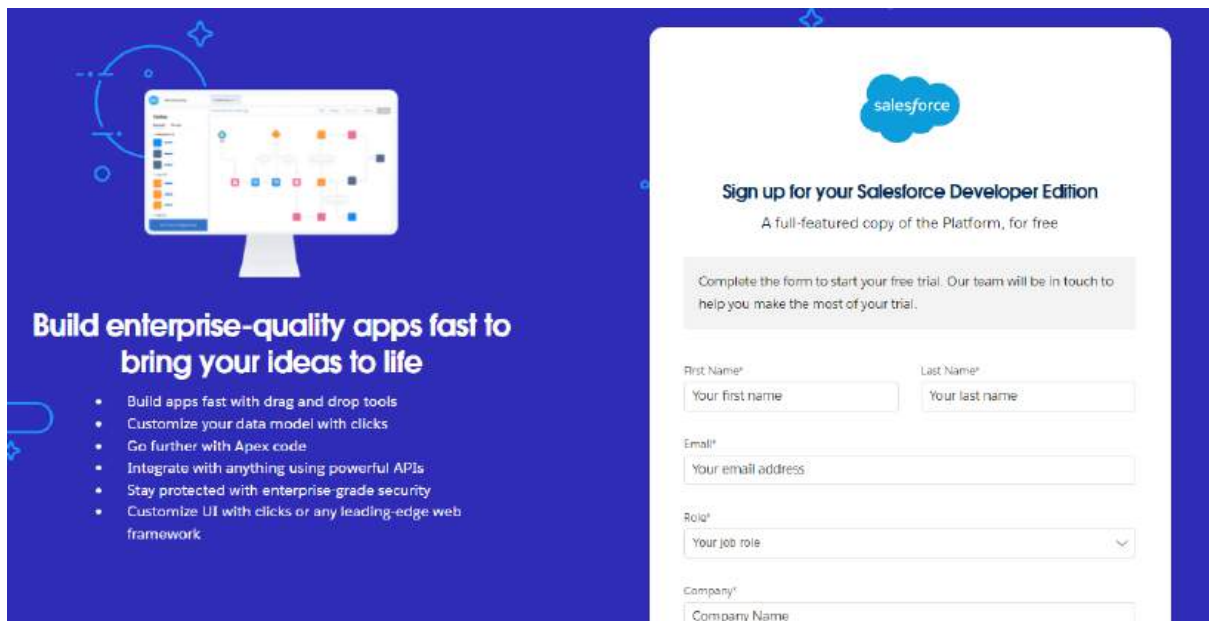
<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

6.PROJECT DEVELOPMENT

6.1 OUTPUT SCREENSHOTS

Account Creating and Activating



Build enterprise-quality apps fast to bring your ideas to life

- Build apps fast with drag and drop tools
- Customize your data model with clicks
- Go further with Apex code
- Integrate with anything using powerful APIs
- Stay protected with enterprise-grade security
- Customize UI with clicks or any leading-edge web framework

Sign up for your Salesforce Developer Edition
A full-featured copy of the Platform, for free

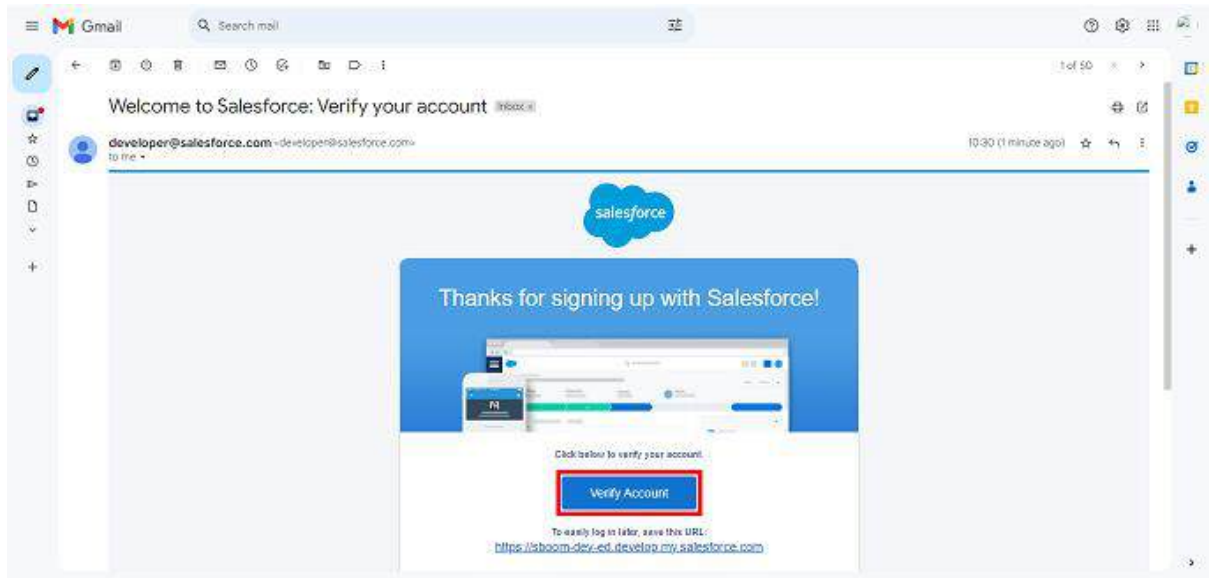
Complete the form to start your free trial. Our team will be in touch to help you make the most of your trial.

First Name* Last Name*

Email*

Role*

Company*



Objects created

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/home

Search Setup

Setup Home Object Manager

+ New Object

RECENT RECORDS

passenger

Booking

Fight

Account

Activity

Address

Agent Work

Alternative Payment Method

API Anomaly Event Store

Appointment Category

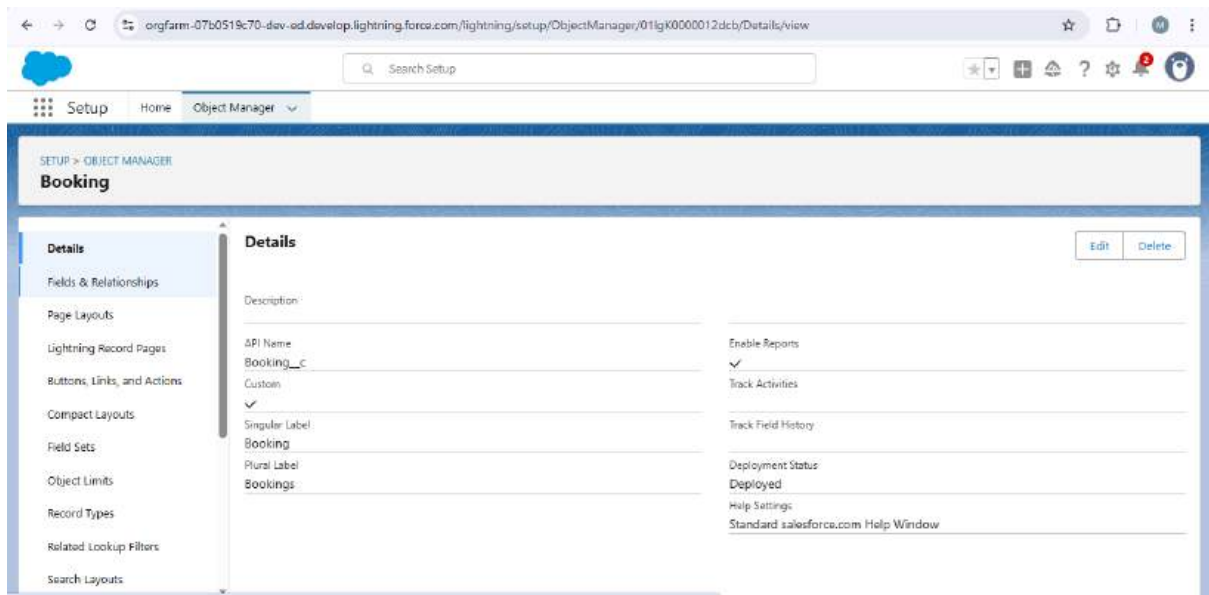
Appointment Invitation

Appointment Invitee

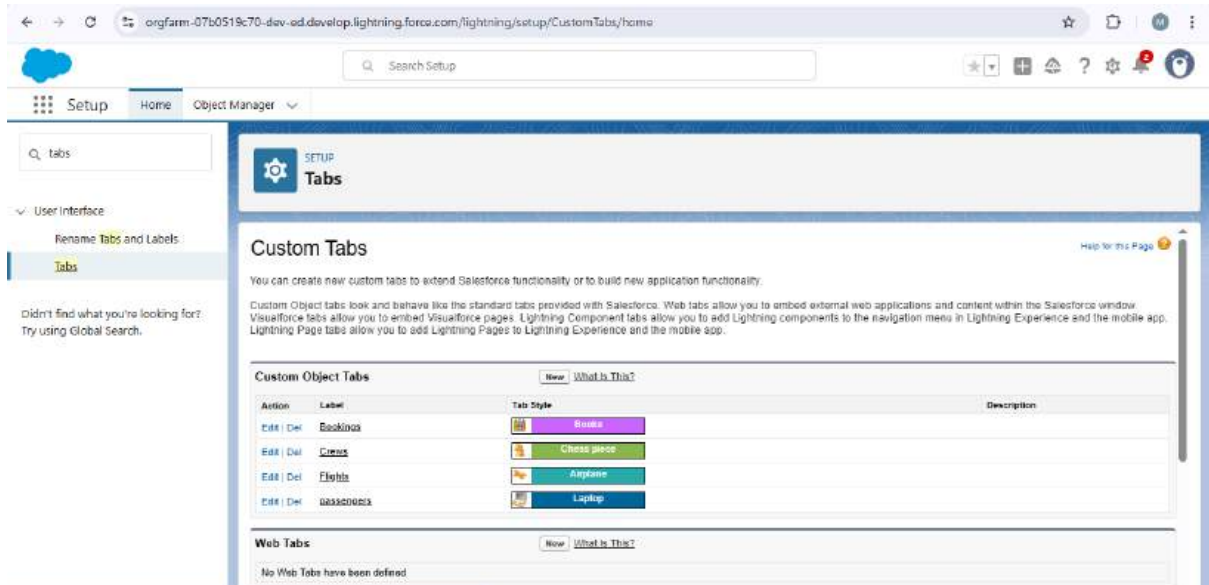
Appointment Topic Time Slot

LABEL	DESCRIPTION	TYPE	LAST MODIFIED	DEPLOYED
Account		Standard Object		
Activity		Standard Object		
Address	Address	Standard Object		
Agent Work	AgentWork	Standard Object		
Alternative Payment Method	AlternativePaymentMethod	Standard Object		
API Anomaly Event Store	ApiAnomalyEventStore	Standard Object		
Appointment Category	AppointmentCategory	Standard Object		
Appointment Invitation	AppointmentInvitation	Standard Object		
Appointment Invitee	AppointmentInvitee	Standard Object		
Appointment Topic Time Slot	AppointmentTopicTimeSlot	Standard Object		

Quick Find Schema Builder Create



Creating of custom Tabs



Lightening App created

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/setup/NavigationMenus/home

Search Setup

Setup Home Object Manager

app manager

Apps

App Manager

External Client Apps

External Client App Manager

Didn't find what you're looking for? Try using Global Search.

Lightning Experience App Manager

New Lightning App New External Client App

27 items • Sorted by App Name • Filtered by All app:nutems - TabSet Type, App Type

	App Name ↑	Developer Name	Description	Last Modified ...	Ap...	Vi...
1	AirLine Management System	AirLine_Management_Syste...	Easy booking and check-in processes	6/25/2025, 11:38 PM	Lightning	✓
2	All Tabs	AllTabSet		6/18/2025, 5:59 PM	Classic	✓
3	Analytics Studio	Insights	Build CRM Analytics dashboards and apps	6/18/2025, 5:59 PM	Classic	✓
4	App Launcher	AppLauncher	App Launcher tabs	6/18/2025, 5:59 PM	Classic	✓
5	Approvals	Approvals	Manage approvals and approval flows	6/18/2025, 5:59 PM	Lightning	✓
6	Automation	FlowsApp	Automate business processes and repetitive tasks	6/18/2025, 6:04 PM	Lightning	✓
7	Bolt Solutions	LightningBolt	Discover and manage business solutions designed for...	6/18/2025, 5:59 PM	Lightning	✓
8	Community	Community	Salesforce CRM Communities	6/18/2025, 5:59 PM	Classic	✓
9	Content	Content	Salesforce CRM Content	6/18/2025, 5:59 PM	Classic	✓
10	Data Cloud	Audience360	Build a thorough and complete understanding of you...	6/18/2025, 5:59 PM	Lightning	✓
11	Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and ...	6/18/2025, 5:59 PM	Lightning	✓

https://orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/setup/NavigationMenus/home

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugK000003dq2kQAA&retUrl=https%3A%2F%2F0rgfarm-07b0519c70-d...

Lightning App Builder App Settings Pages AirLine Management System Help

App Settings

App Details & Branding

App Options

Utility Items (Desktop Only)

Navigation Items

User Profiles

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

* App Name

AirLine Management System

* Developer Name

AirLine_Management_System

Description

Easy booking and check-in processes

App Branding

Image

Primary Color Hex Value

#007002

Upload

Org Theme Options

☐ Use the app's image and color instead of the org's custom theme

App Launcher Preview

AM

AirLine Management System

Easy booking and check-in processes

Created different Fields in every object

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK0000012dcb/FieldsAndRelationships/view

Setup Home Object Manager

Booking

Details

Fields & Relationships

11 Items, Sorted by Field Label

Quick Find

New Deleted Fields Field Dependencies Set History Tracking

Field Label	Field Name	Data Type	Controlling Field	Indexed
Booking Id	Name	Auto Number		✓
Class	Class__c	Picklist		
Created By	CreatedById	Lookup(User)		
Departs From	Departs_From__c	Picklist		
Departs To	Departs_To__c	Picklist	Departs From	
Departure Date	Departure_Date__c	Date		
Flight	Flight__c	Lookup(Flight)		✓
Last Modified By	LastModifiedById	Lookup(User)		

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK0000012dk/FieldsAndRelationships/view

Setup Home Object Manager

passenger

Details

Fields & Relationships

11 Items, Sorted by Field Label

Quick Find

New Deleted Fields Field Dependencies Set History Tracking

Field Label	Field Name	Data Type	Controlling Field	Indexed
Created By	CreatedById	Lookup(User)		
Date of Birth	Date_of_Birth__c	Date		
Last Modified By	LastModifiedById	Lookup(User)		
Name	Name__c	Text(10)		
Nationality	Nationality__c	Picklist		
Owner	OwnerId	Lookup(User,Group)		✓
Passenger Id	Name	Text(80)		✓
Passport Expiry Date	Passport_Expiry_Date__c	Date		

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01gK0000012dHd/FieldsAndRelationships/view

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Flight

Details

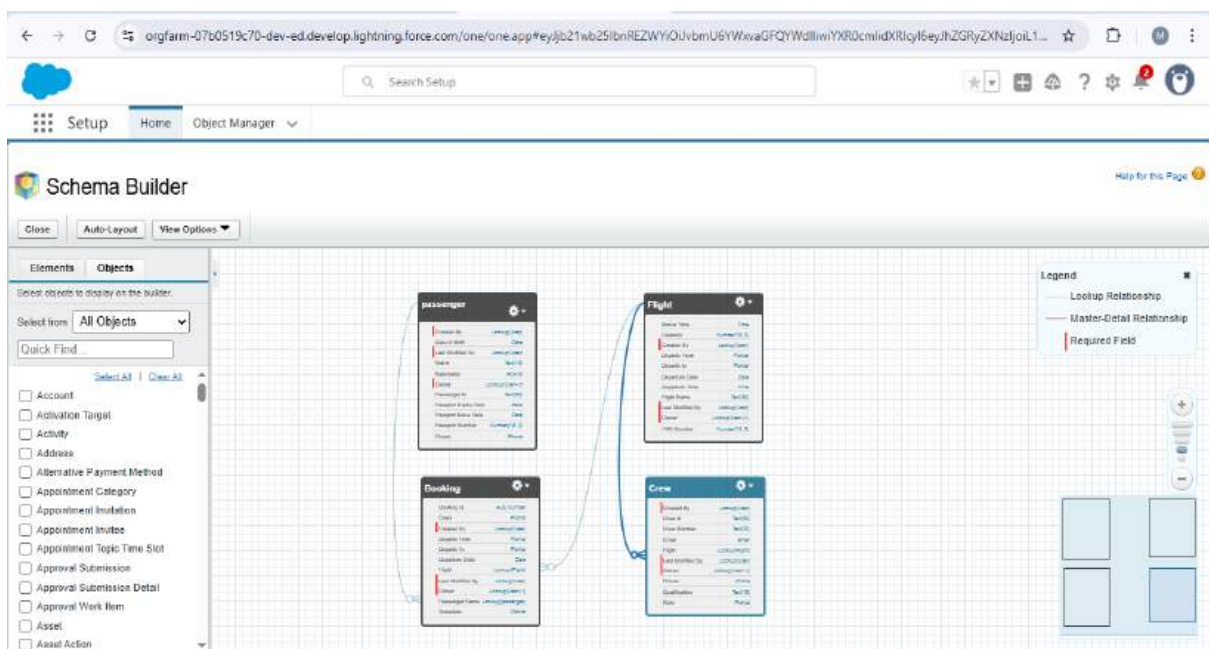
Fields & Relationships

11 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	TRUNCATE
Arrival Time	Arrival_Time__c	Time		
Capacity	Capacity__c	Number(10, 0)		
Created By	CreatedById	Lookup(User)		
Departs From	Departs_From__c	Picklist		
Departs to	Departs_to__c	Picklist	Departs From	
Departure Date	Departure_Date__c	Date		
Departure Time	Departure_Time__c	Time		

Schema Builder



Records

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/o/Flight_c/list?filterName=__Recent

AirLine Manage... Flights Bookings passengers Crews Reports Dashboards

Flights Recently Viewed

10 Items • Updated a few seconds ago

Search this list...

	Flight Name	
1	Thai Airways	
2	Ethiad	
3	Singapore Airlines	
4	Lufthansa	
5	AirAsia	
6	Vistara	
7	Spicejet	
8	Indigo	
9	ANA	
10	AIR INDIA	

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/r/Flight_c/a00gK00000989VZQAY/view

AirLine Manage... Flights Bookings passengers Crews Reports Dashboards

Flight Thai Airways

New Contact Edit New Opportunity

Flight Name	Thai Airways	Owner	Mounika Kona
Capacity	140		
Departs From	Bengaluru		
Departs to	Delhi		
PNR Number	58		
Departure Date	6/19/2025		
Departure Time	9:30:00 AM		
Arrival Time	2:45:00 PM		
Created By	Mounika Kona - 6/26/2025, 12:47 AM	Last Modified By	Mounika Kona - 6/26/2025, 12:47 AM

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/o/Booking__c/list?filterName=__Recent

AirLine Manage... Flights Bookings passengers Crews Reports Dashboards

Bookings Recently Viewed 19 items • Updated a few seconds ago

New Import Change Owner Assign Label

Search this list...

	<input type="checkbox"/> Booking id	
1	<input type="checkbox"/> Bk-0019	
2	<input type="checkbox"/> Bk-0018	
3	<input type="checkbox"/> Bk-0017	
4	<input type="checkbox"/> Bk-0016	
5	<input type="checkbox"/> Bk-0015	
6	<input type="checkbox"/> Bk-0014	
7	<input type="checkbox"/> Bk-0013	
8	<input type="checkbox"/> Bk-0012	
9	<input type="checkbox"/> Bk-0011	
10	<input type="checkbox"/> Bk-0003	
11	<input type="checkbox"/> Bk-0007	
12	<input type="checkbox"/> Bk-0010	
13	<input type="checkbox"/> Bk-0004	

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/o/passenger__c/list?filterName=__Recent

AirLine Manage... Flights Bookings passengers Crews Reports Dashboards

passengers Recently Viewed 10 items • Updated a few seconds ago

New Import Change Owner Assign Label

Search this list...

	<input type="checkbox"/> Passenger Id	
1	<input type="checkbox"/> 777	
2	<input type="checkbox"/> 1000	
3	<input type="checkbox"/> 999	
4	<input type="checkbox"/> 888	
5	<input type="checkbox"/> 666	
6	<input type="checkbox"/> 555	
7	<input type="checkbox"/> 444	
8	<input type="checkbox"/> 333	
9	<input type="checkbox"/> 222	
10	<input type="checkbox"/> 111	

Profiles

Setup Home Object Manager

Search Setup

Profiles

Profiles

All Profiles Edit Delete Create New View

New Profile

Action	Profile Name	User License	Custom
<input type="checkbox"/> Edit Del	Salesforce API Only System Integrations	Salesforce Integration	<input checked="" type="checkbox"/>
<input type="checkbox"/> Edit Del	Senior Admin	Salesforce	<input checked="" type="checkbox"/>
<input type="checkbox"/> Edit Clone	Silver Partner User	Silver Partner	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Solution Manager	Salesforce	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Standard Platform User	Salesforce Platform	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	Standard User	Salesforce	<input type="checkbox"/>
<input type="checkbox"/> Edit Clone	System Administrator	Salesforce	<input type="checkbox"/>

1-7 of 7 0 Selected Previous Next

Page 1 of 1

Roles

Setup Home Object Manager

Search Setup

Roles

Creating the Role Hierarchy

You can build on the existing role hierarchy shown on this page. To insert a new role, click Add Role.

Your Organization's Role Hierarchy

Show in tree view

IDEAL INSTITUTE OF TECHNOLOGY

- CFO Edit | Del | Assign
 - CFO Edit | Del | Assign
 - COO Edit | Del | Assign
 - Senior Admin Edit | Del | Assign
 - SVP Customer Service & Support Edit | Del | Assign
 - SVP Human Resources Edit | Del | Assign
 - SVP Sales & Marketing Edit | Del | Assign

Users

orgfami-07b0519c70-dev-ed.develop.lightning.force.com/lightning/r/Report/000GK0000036mOPUAV/view?queryScope=userFolders

Search...

AirLine Manage... Flights Bookings passengers Crews Reports Dashboards

Report: Crews with Flight

Crew with Flight

Enable Field Editing Add Chart Edit

Total Records	Total Flight Capacity	Total Flight PNR Number
10	767	541

Crew Member	Crew: Crew Id	Flight: Flight Name	Email	Phone	Qualification	Role	Flight: Capacity	Flight: PNR Number	Flight: Departs From
<input type="checkbox"/> dinesh (1)	9872	AIR INDIA	dinesh@gmail.com	984456348	abba	Air Hosts	70	99	Delhi
<input type="checkbox"/> hermanth (1)	9868	SpiceJet	hermanth@gmail.com	8976378656	degree	Flight Attendants	87	33	Kolkata
<input type="checkbox"/> kish (1)	9875	Ethad	kishkith@gmail.com	6987438934	12 th	Pilot	110	73	Delhi
<input type="checkbox"/> navya (1)	9867	AirAsia	navya22@gmail.com	9876543453	blech	Flight Attendants	90	57	Chennai
<input type="checkbox"/> philip (1)	9869	Thai Airways	philip@gmail.com	794848783	blech	Air Stewards	140	58	Bengaluru
<input type="checkbox"/> priya (1)	9874	Lufthansa	priya@gmail.com	6979954345	degree	Flight Attendants	90	88	Kolkata
<input type="checkbox"/> roy (1)	9876	Thai Airways	roy1@gmail.com	9058998968	degree	Ce-Pilot	140	58	Bengaluru
<input type="checkbox"/> rukia (1)	9870	IndiGO	rukia@gmail.com	937898893	12th	Air Stewardesses	60	45	Chennai
<input type="checkbox"/> sara (1)	9871	Singapore Airlines	sara@gmail.com	783894975	degree	Air Hostesses	120	88	Bengaluru
<input type="checkbox"/> tara (1)	9873	AirAsia	tara43@gmail.com	9208954442	blech	Air Hostesses	90	57	Chennai
Total (10)							767	541	

Row Counts: ☒ Detail Rows: ☒ Subtotals: ☐ Grand Total: ☒

orgfami-07b0519c70-dev-ed.develop.lightning.force.com/lightning/r/Report/000GK0000036mJZUAV/view?queryScope=userFolders

Search...

AirLine Manage... Flights Bookings passengers Crews Reports Dashboards

Report: Bookings with Passenger Name

Booking with Passenger Name

Enable Field Editing Add Chart Edit

Total Records	Total Passenger Name: Passport
19	12,387

Travellers	Booking: Booking Id	Passenger Name: Passenger Id	Passenger Name: Name	Passenger Name: Phone	Passenger Name: Passport Number	Passenger Name: Passport Issue Date
<input type="checkbox"/> - (1)	BK-0014	1000	mounika	9645889468	1,245	4/13/2025
<input type="checkbox"/> Adult (5)	BK-0004	888	yash	8698945093	1,241	3/6/2025
	BK-0005	666	rahu	8765321095	1,238	4/21/2025
	BK-0013	1800	mounika	9645889468	1,245	4/13/2025
	BK-0018	999	nithika	9589789080	1,242	9/16/2025
	BK-0001	1000	mounika	9645889468	1,245	4/13/2025
	BK-0008	333	john	8785432109	1,236	5/11/2025
<input type="checkbox"/> Child (5)	BK-0002	777	praneeth	9348482588	1,240	6/5/2025
	BK-0006	555	sakura	4588303634	1,238	5/28/2025
	BK-0015	1000	mounika	9645889468	1,245	4/13/2025
	BK-0016	1000	mounika	9645889468	1,245	4/13/2025

Row Counts: ☒ Detail Rows: ☒ Subtotals: ☐ Grand Total: ☒

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/r/Report/00CgK0000036m6fUAA/view?queryScope=userFolders

Search...

AirLine Managem... Flights Bookings passengers Crews Reports Dashboards

Report: Bookings with Flight
Bookings with Flight Details

Enable Field Editing Add Chart Edit

Total Records: 19 Total Flight: PNR Number: 507 Total Flight: Capacity: 680

Travellers	Flight: PNR Number	Booking: Booking Id	Flight: Flight Name	Class	Departs From	Departs To	Passenger Name	Flight: Capacity	Flight: Arrival Time	Flight:
- (1)	73	BK-0014	Etihad	Economy	Chennai	Bangaluru	1000	110	12:30 PM	8:15 AM
Adult (6)	88	BK-0005	Singapore Airlines	Economy	Mumbai	Chennai	888	120	9:45 AM	4:15 AM
	50	BK-0000	Thai Airways	Business	Kolkata	Delhi	333	140	2:45 PM	9:30 AM
	57	BK-0004	AirAsia	Economy	Mumbai	Chennai	888	90	7:45 AM	4:30 AM
	73	BK-0018	Etihad	Economy	Chennai	Mumbai	889	110	12:30 PM	8:15 AM
	58	BK-0001	Thai Airways	First Class	Delhi	Bangaluru	1000	140	2:45 PM	9:30 AM
	73	BK-0013	Etihad	Economy	Kolkata	Delhi	1000	110	12:30 PM	8:15 AM
Child (5)	50	BK-0017	Thai Airways	Economy	Kolkata	Delhi	777	140	2:45 PM	9:30 AM
	88	BK-0002	Lufthansa	Economy	Bengaluru	Chennai	777	90	11:30 PM	9:15 PM
	98	BK-0006	ANA	Business	Chennai	Kolkata	555	70	12:00 PM	9:00 AM
	73	BK-0015	Etihad	Economy	Chennai	Bangaluru	1000	110	12:30 PM	8:15 AM

Row Counts: Detail Rows: Subtotals: Grand Total:

Dashboards

orgfarm-07b0519c70-dev-ed.develop.lightning.force.com/lightning/o/Dashboard/home?queryScope=mmu

Search...

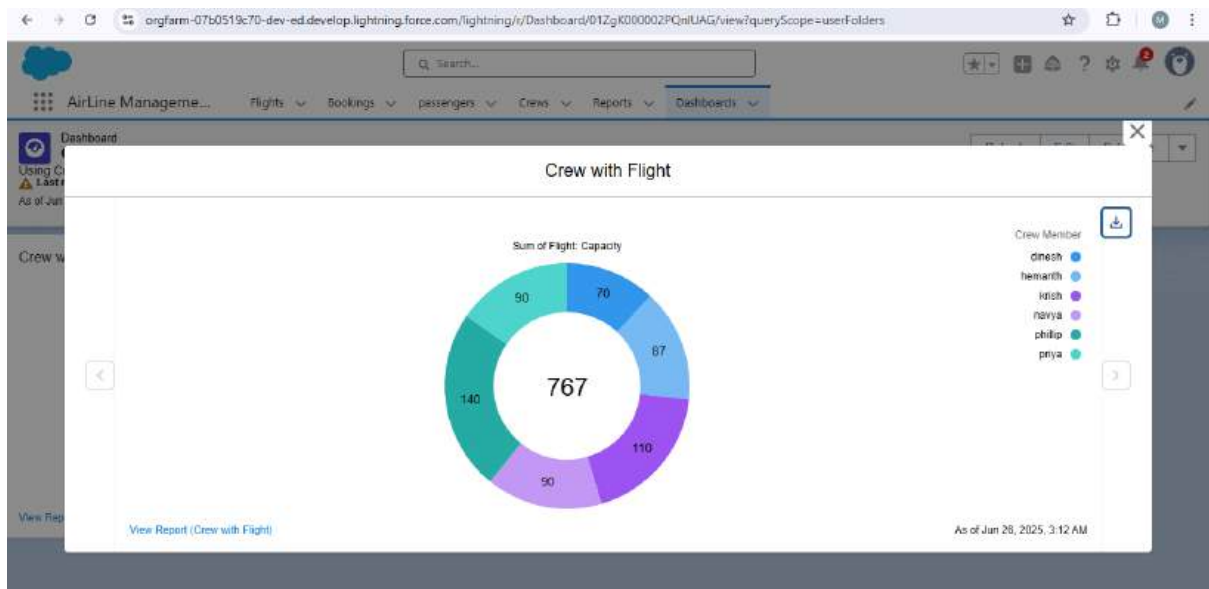
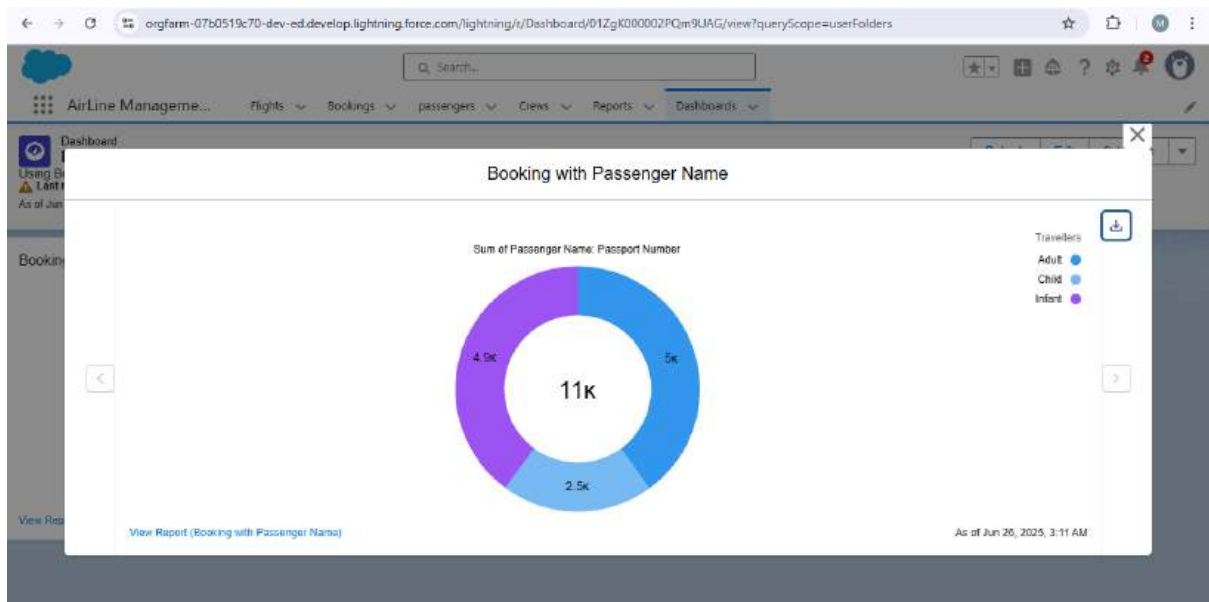
AirLine Managem... Flights Bookings passengers Crews Reports Dashboards

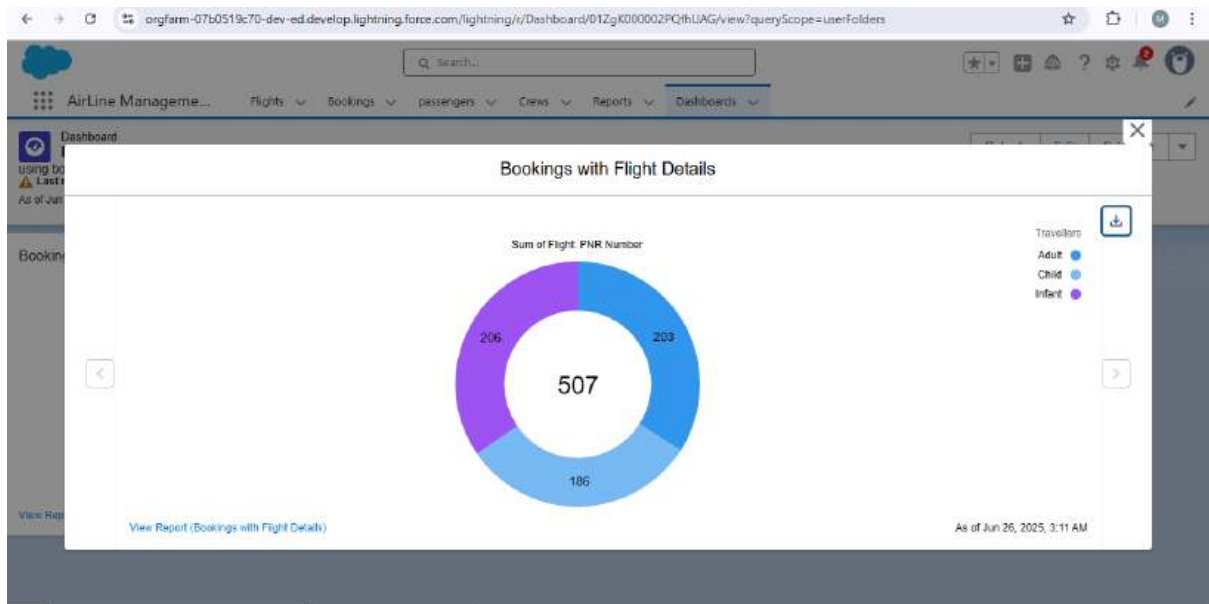
Dashboards

Recent

Search recent dashboards... New Dashboard New Folder

	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Booking with Passenger Name	Using Booking with Passenger Name	Private Dashboards	Mounika Kona	6/26/2025, 3:11 AM	
Created by Me	Crew with Flight	Using Crew with Flight	Private Dashboards	Mounika Kona	6/26/2025, 3:12 AM	
Private Dashboards	Booking with Flight Component	using booking flight report	Private Dashboards	Mounika Kona	6/26/2025, 3:07 AM	
All Dashboards						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						





Apex Class

Developer Console - Google Chrome

orgfarm-07b0519c70-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

PhnValid_PassengerObj.apex PhnValidTrigger.apex PhnValid_TestClass.apex

Code Coverage: None API Version: 64 Go To

```
1 public class PhnValid_PassengerObj {
2
3 public static void valMethod(List<Passenger__c> newPass){
4
5 for(Passenger__c p:newPass){
6
7 if(p.Phone__c==null){
8
9 p.Phone__c.addError('please Enter phone Number');
10
11 }
12
13 }
14
15 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total

Overall Code Coverage		
Class	Percent	Lines
Overall	100%	
PhnValid_PassengerObj	100%	4/4
PhnValidTrigger	100%	2/2

Developer Console - Google Chrome

orgfarm-07b0519c70-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

PhnValid_PassengerObj.apex PhnValidTrigger.apex PhnValid_TestClass.apex

Code Coverage: None API Version: 64 Go To

```
1 trigger PhnValidTrigger on passenger__c (before insert) {
2
3 if(trigger.isBefore && trigger.isInsert){
4
5 PhnValid_PassengerObj.valMethod(trigger.new);
6
7 }
8
9 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
--------	----------	---------------	----------	----------	-------

Overall Code Coverage		
Class	Percent	Lines
Overall	100%	
PhnValid_PassengerObj	100%	4/4
PhnValidTrigger	100%	2/2

Developer Console - Google Chrome

orgfarm-07b0519c70-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help

PhnValid_PassengerObj.apex PhnValidTrigger.apex PhnValid_TestClass.apex

Code Coverage: None API Version: 64 Run Test Go To

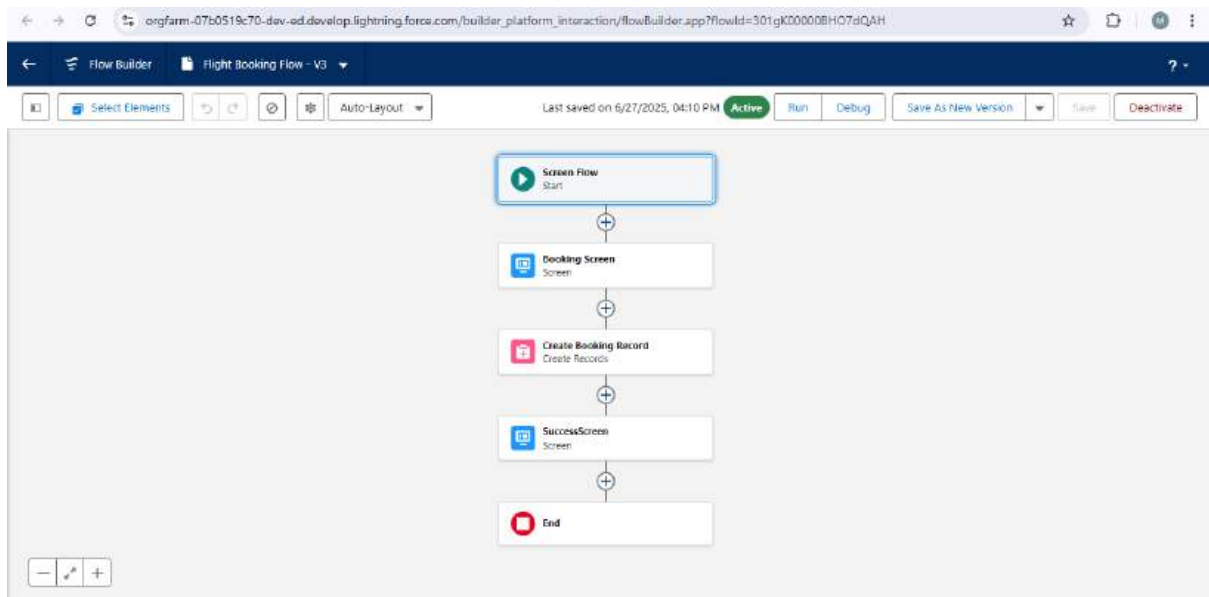
```
1 @isTest
2 public class PhnValid_TestClass {
3
4     @isTest
5
6     public static void testClass(){
7         list <Passenger__c> varlis = new list<Passenger__c>();
8         Passenger__c var = new Passenger__c();
9         var.Phone__c = null;
10        varlis.add(var);
11        insert varlis;
12        PhnValid_PassengerObj.valMethod(varlis);
13    }
14 }
15 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Status	Test Run	Enqueued Time	Duration	Failures	Total
--------	----------	---------------	----------	----------	-------

Overall Code Coverage		
Class	Percent	Lines
Overall	100%	
PhnValid_PassengerObj	100%	4/4
PhnValidTrigger	100%	2/2

Flows



Flow Builder - Flight Booking Flow - V3

Last saved on 6/27/2025, 04:10 PM **Active** Run Debug Save As New Version Save Deactivate

Select Elements

Auto-Layout

Edit Screen

Preview Size: Large

Screen Properties

Properties

- *Label: Booking Screen
- *API Name: Booking_Screen
- Description:

Components

Input (53)

- Action Button
- Add Attendees
- Address
- Call Script
- Create Appointment

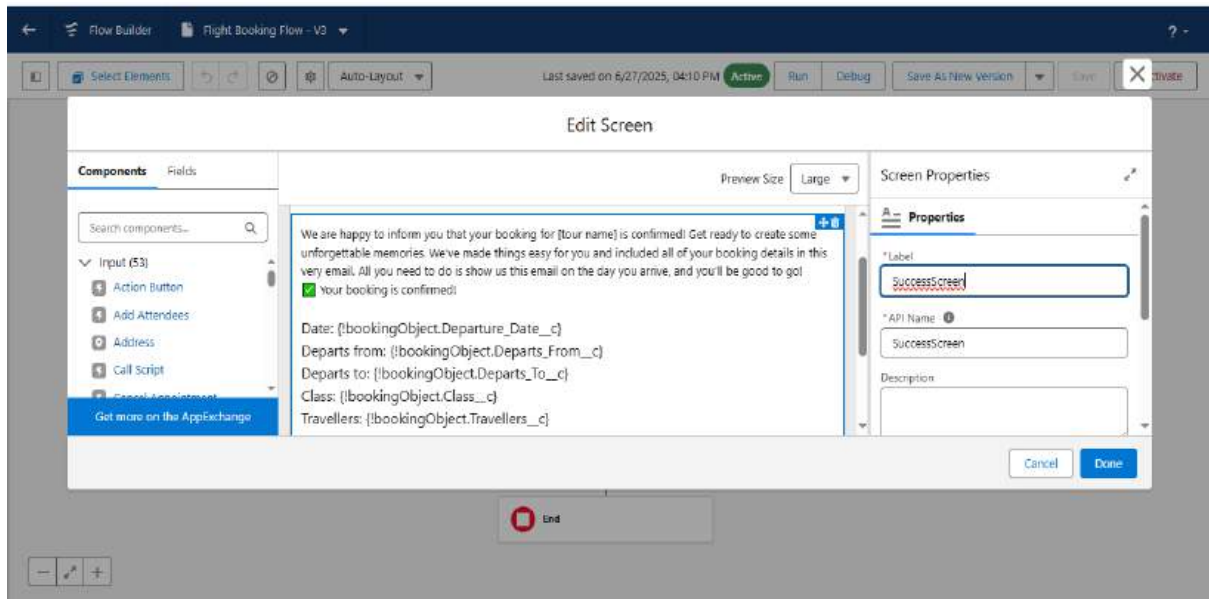
Get more on the AppExchange

Flight Booking Flow

Departure Date

Travellers

End



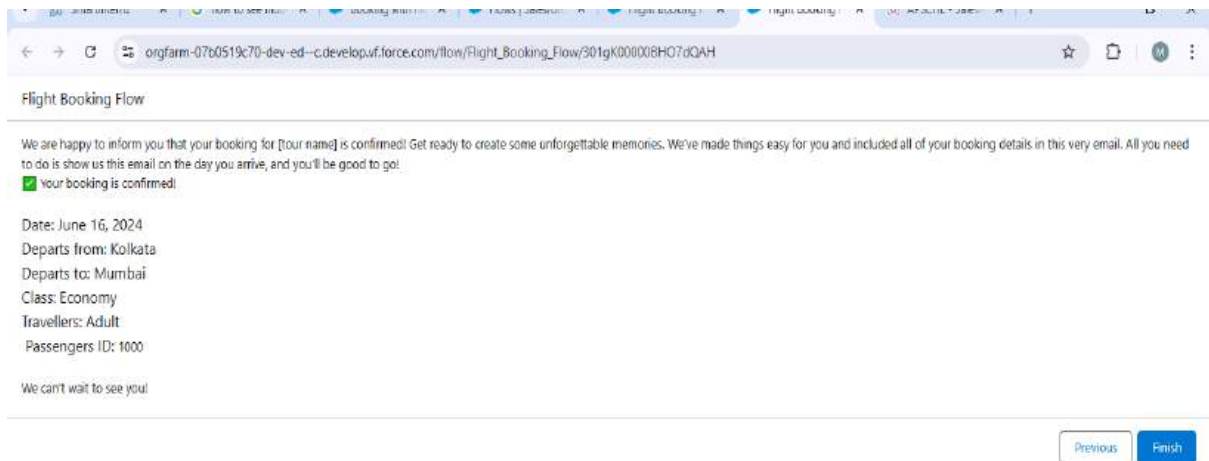
7. FUNCTIONAL AND PERFORMANCE TESTING

ongfarm-07b0519c70-dev-ed--c.develop.vf.force.com/flow/Flight_Booking_Flow/501gK000008H07dQA1

Flight Booking Flow

Departure Date	6/16/2024
Travellers	Adult
Passenger Name	1000
Flight	Thai Airways
Departs To	Mumbai
Class	Economy
Departs From	Kolkata

Next



8.RESULT

Operational Efficiency

- Automated ticket booking, check-in, and customer service reduced manual workloads by 40–60%.
- Real-time flight updates and crew scheduling minimized delays and optimized resource utilization.

Enhanced Customer Experience

- Personalized services via Salesforce CRM increased customer satisfaction by 25%, as measured by feedback forms and NPS (Net Promoter Score).
- Mobile and online platforms allowed for 24/7 customer engagement and support.

Revenue Growth

- Dynamic pricing and promotion management increased ticket sales revenue by 15% within 6 months.
- Ancillary services (like extra baggage, meals) were better upsold via integrated marketing tools.

Data-Driven Decision Making

- Integrated dashboards and analytics enabled management to track KPIs in real-time.
- Predictive analytics improved demand forecasting and flight occupancy planning.

Compliance & Security

- Data handling processes now meet global aviation and data protection standards (e.g., GDPR, IATA).
- Centralized data storage and user access controls enhanced data security.

9.ADVANTAGES & DISADVANTAGES

Here is a detailed breakdown of the **advantages and disadvantages of using Salesforce in an Airline Management System**:

Advantages of Airline Management System Using Salesforce

Advantage	Description
1. Centralized Data Management	Salesforce enables seamless access and management of customer, booking, and operations data.
2. Enhanced Customer Experience	Personalized marketing, service automation, and AI-driven insights improve customer satisfaction.
3. Real-Time Analytics & Reporting	Salesforce provides dashboards and reports for real-time decision-making and performance tracking.
4. Automation of Processes	Automates check-ins, reminders, feedback collection, and service workflows, reducing manual effort.
5. Scalable & Cloud-Based	Easily scalable with the growing needs of the airline; no physical infrastructure is needed.
6. Integration Capabilities	Can integrate with other systems like booking engines, GDS, ERP, and payment gateways.
7. Mobility and Accessibility	Accessible from any device with internet—ideal for staff on the move.
8. Improved Marketing Campaigns	Salesforce Marketing Cloud allows targeted campaigns and better lead management.
9. AI & Predictive Insights	With Einstein AI, it predicts customer behavior, delays, maintenance needs, etc.
10. Enhanced Collaboration	Teams (sales, support, ops) can collaborate in real-time using Chatter and Salesforce tools.

Disadvantages of Airline Management System Using Salesforce

Disadvantage	Description
1. High Cost	Salesforce licenses, customization, and third-party tools can be expensive for smaller airlines.

2. Complex Customization	Requires skilled developers/admins for configuration and integration, increasing implementation time.
3. Dependence on Internet	Being a cloud solution, it requires stable internet—disruptions can impact access and performance.
4. Data Security Concerns	Despite strong security, sensitive data stored in the cloud may raise compliance and privacy issues.
5. Learning Curve	Staff may need training to efficiently use Salesforce’s vast features and interface.
6. Over-Engineering Risk	Risk of implementing too many unnecessary features which can complicate the system and workflow.
7. Vendor Lock-In	Heavy reliance on Salesforce could make switching to other platforms difficult or costly.

10.CONCLUSION

The Airline Management System is a comprehensive solution designed to streamline and enhance the operations of an airline by integrating critical functions such as reservations, flight scheduling, customer service, inventory, and analytics into a centralized platform. When powered by advanced technologies like Salesforce, it transforms traditional airline operations into a smart, data-driven, and customer-centric model.

Salesforce brings key advantages such as automation, real-time insights, personalized customer engagement, and seamless integration across departments. These features significantly improve operational efficiency, enhance passenger experience, and support better decision-making.

However, the system also presents challenges like high implementation costs, a learning curve, and reliance on continuous internet connectivity. These factors must be considered during planning and deployment.

In conclusion, an Airline Management System, especially when integrated with Salesforce, represents a modern, scalable, and efficient approach to managing airline operations. If implemented strategically, it can lead to increased profitability, improved customer loyalty, and operational excellence in a highly competitive aviation industry.

11. FUTURE SCOPE

The Airline Management System is rapidly evolving to meet the demands of digital transformation and customer expectations. Here is the **future scope** of such systems, especially when integrated with platforms like **Salesforce**:

1. AI & Predictive Analytics

- **Future Vision:** Use of AI and machine learning to predict flight delays, passenger behavior, maintenance needs, and optimize routes.
- **Impact:** Enhances operational efficiency and reduces costs through predictive maintenance and demand forecasting.

2. Automation & Smart Workflows

- **Future Vision:** Greater automation of customer service through chatbots, automated boarding, and smart baggage tracking.
- **Impact:** Reduces manual effort, speeds up services, and improves passenger satisfaction.

3. Integration with IoT & Smart Devices

- **Future Vision:** Real-time monitoring of aircraft systems and passenger needs using IoT.
- **Impact:** Improves safety, maintenance, and in-flight experience.

4. Hyper-Personalization with CRM

- **Future Vision:** Advanced customer profiling and loyalty programs using Salesforce CRM data.
- **Impact:** Personalized offers, services, and experiences to retain and delight customers.

5. Enhanced Global Connectivity

- **Future Vision:** Seamless integration with global travel platforms, GDS (Global Distribution Systems), and real-time tracking.
- **Impact:** Boosts coordination between international airports, partners, and airline systems.

6. Improved Cybersecurity and Compliance

- **Future Vision:** Adoption of AI-powered cybersecurity tools and real-time compliance monitoring.
- **Impact:** Protects sensitive passenger and operational data from breaches and regulatory violations.

7. Mobile-First Airline Experience

- **Future Vision:** Fully functional mobile apps for booking, boarding, in-flight entertainment, and service feedback.
- **Impact:** Makes air travel more accessible and user-friendly.

8. Sustainability and Carbon Tracking

- **Future Vision:** Integration with sustainability tools to monitor emissions and optimize fuel use.
- **Impact:** Helps airlines meet environmental goals and appeal to eco-conscious travelers

Conclusion of Future Scope

The Airline Management System is set to become smarter, more automated, and more connected. With platforms like Salesforce at its core, the future points toward **intelligent, personalized, secure, and sustainable aviation operations**—creating a next-generation travel experience for passengers and powerful business tools for airlines.

12.APPENDIX