REQUIREMENT ANALYSIS [CUSTOMER JOURNEY MAP]

Creating a **Customer Journey Map** for an **Airline Management System Project in Salesforce** involves outlining the experience a customer has from first learning about the airline to post-flight engagement, while integrating how **Salesforce** tools support and enhance each step.

Airline Management System - Customer Journey Map

Stag e	Customer Actions	Touchpoints	Salesforce Capabilities Used	Opportunities for Enhancement
1. Awa rene ss	Searches flights, visits airline website, sees ads	Social media, Google ads, partner sites, mobile app	Marketing Cloud, Advertising Studio, Web-to-Lead	Personalized ad targeting, capture leads for follow-up
2. Con side ratio n	Compares airlines, reads reviews, signs up for newsletter	Website, blog, email campaigns	Marketing Cloud, Email Studio, Lead Scoring	Lead nurturing with personalized offers
3. Boo king	Selects flight, enters preferences, makes payment	Website, mobile app, call center	Salesforce Experience Cloud, Service Cloud, Commerce Cloud	Seamless booking flow with AI-based fare suggestions
4. Pre- Trav el	Gets updates, checks-in online, chooses seat	Email, SMS, app notifications, chatbot	Journey Builder, Einstein Bots, Mobile Studio	Proactive flight updates, upsell upgrades (luggage, seat)
5. At Airp ort	Uses e-boarding pass, contacts support for queries	Airport kiosk, mobile app, live chat	Field Service Lightning, Service Cloud Voice	Al routing to reduce wait time, sentiment detection

6. In- Fligh t	Onboard services, feedback forms, entertainment	Inflight app/portal, email survey	Service Cloud, Feedback Management, IoT integration	Real-time service tracking, personalized content
7. Post - Fligh t	Feedback, loyalty program engagement, future bookings	Email, loyalty app, survey forms	Salesforce Loyalty Management, Marketing Cloud, CDP	Reward points, next-flight promo emails
8. Adv oca cy	Shares experience, refers friends	Social media, reviews, referral links	Social Studio, Referral Management, CRM Analytics	Track NPS, incentivize referrals

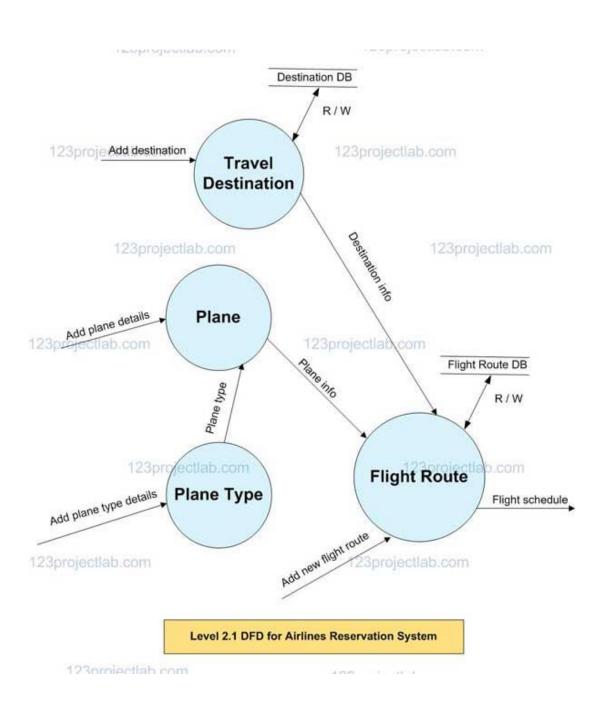
Salesforce Tools Breakdown

- Marketing Cloud Automate email/SMS journeys, personalize communication.
- Service Cloud Omnichannel support (chat, voice, email).
- Experience Cloud Build branded customer portals.
- Loyalty Management Build/customize loyalty tiers and promotions.
- Salesforce CDP (Customer Data Platform) Unified 360° customer profile.
- **Einstein AI** Predictive recommendations, AI chatbots.
- CRM Analytics Visualize customer satisfaction and booking trends.

Tips for Implementation

- Data Integration: Integrate Salesforce with flight operations databases.
- Mobile First: Optimize the journey for mobile users.
- Omnichannel Service: Use Salesforce for consistent support across all touchpoints.
- Feedback Loops: Capture insights at every stage using Salesforce Surveys.

REQIUREMENT ANALYSIS [DATA FLOW DIAGRAM]



REQUIREMENT ANALYSIS [SOLUTION REQUIREMENTS]

Solution Requirements for Airline Management System in Salesforce

1. Functional Requirements

These are the core features the system must support.

◇ Customer Management

- Register and manage customer profiles
- View customer travel history and preferences
- Manage frequent flyer status and loyalty points
- Link multiple passenger profiles under one customer account (e.g. family)

⋄ Flight Booking & Management

- Search for flights based on origin, destination, dates
- Book and manage flight reservations (one-way, round-trip, multi-city)
- Modify or cancel bookings
- Display dynamic pricing and seat availability

Check-In and Boarding

- Enable online/mobile check-in
- Assign or change seats during check-in
- Generate e-boarding passes and notify customers

- Enroll customers in loyalty programs
- Accumulate and redeem points for flights or services
- View tier benefits, history, and upcoming tier upgrades

♦ Customer Support

- Support via chatbot, email, phone, and in-app messaging
- Escalate to live agents via Service Cloud
- Log and track support tickets and feedback

♦ Notifications & Alerts

- Notify customers via SMS/email for booking confirmations, flight delays, cancellations
- Pre-boarding and check-in reminders

◇ Payments & Invoicing

- Integrate with secure third-party payment gateways
- Generate invoices and send payment confirmations
- Handle refunds and cancellations

♦ Feedback & Surveys

- Send post-flight surveys
- Collect NPS (Net Promoter Score) and satisfaction metrics

2. Non-Functional Requirements

Performance

- System should support concurrent users during peak times (e.g., holiday travel)
- Response time < 3 seconds for search and booking

Scalability

- Ability to scale up to support new markets or regions
- Modular design for future feature expansion

Security

- Role-based access control for internal users
- GDPR and PCI-DSS compliance
- Encrypted data at rest and in transit

Availability

- 99.9% system uptime with Salesforce SLA
- Real-time sync of customer and booking data

Integration

- Integrate with third-party systems:
 - Global Distribution Systems (GDS)
 - Payment gateways (e.g. Stripe, PayPal)
 - Baggage handling or airport systems
 - Airline ERP systems

3. Salesforce-Specific Requirements

Salesforce Clouds to Use

- Service Cloud: Omnichannel customer support and case management
- Marketing Cloud: Personalized journey automation and promotions
- Experience Cloud: Self-service customer portal and mobile site
- Loyalty Management: Loyalty tiers, point tracking, and rewards
- CRM Analytics: Track KPIs like churn, revenue, customer satisfaction
- Salesforce CDP: Unified customer profile across departments

Automation & Intelligence

Use Einstein Al for:

- o Predictive offers
- o Chatbot support
- Intelligent case routing
- Use Journey Builder for email/SMS workflows based on triggers

Data Sync & APIs

- REST/SOAP APIs for syncing flight schedules and inventory
- Real-time sync with external GDS (e.g., Sabre, Amadeus)

Audit & Compliance

• Use Salesforce Shield for audit trails, data retention, and encryption

REQUIREMENT ANALYSIS [TECHNOLOGY STACK]

Technology Stack for Airline Management System

1. Salesforce Core Stack

Component Technology Purpose

CRM Platform	Salesforce Core (Sales, Service,	Customer data, booking & support	
	Experience Cloud)	management	
Marketing		Email/SMS campaigns, journey	
Automation	Salesforce Marketing Cloud	automation	
Customer	Salesforce Service Cloud +	Tiplicating abothoto agent westing	
Service	Omnichannel	Ticketing, chatbots, agent routing	
Self-Service	Onlantana Francisco Olavel	Customer-facing portal for booking	
Portal	Salesforce Experience Cloud	& account	
Loyalty	Salesforce Loyalty Management	Tier system, rewards, redemptions	
Management	Salesione Loyally Management		
Analytics	CRM Analytics (Tableau CRM)	Dashboards, customer insights,	
Anatytics		trends	
Data Unification	Salesforce CDP	Real-time unified customer profile	
Security &	Onlanda wa a Obialal	Field-level encryption, audit trail,	
Auditing	Salesforce Shield	monitoring	

2. Front-End Technologies

Component	Technology	Purpose
Web Portal	Lightning Web Components (LWC), HTML5,	Responsive booking and check-in
	CSS3, JS	interfaces
Mobile App	React Native or Flutter (with Salesforce	Flight booking, loyalty, and real-
	Mobile SDK)	time updates
CMS	Salesforce CMS or Headless CMS (e.g.,	Content delivery for promotions
Integration	Contentful)	and pages

3. Integration & Middleware

Purpose	Technology	Use Case	
API	MuleSoft Anypoint Platform	Connect to GDS (Sabre, Amadeus),	
Integration		payment gateways, airport systems	
Real-Time	Platform Events, Change	Update flight schedules, seat	
Sync	Data Capture	availability	
Legacy		Connect with older airline ERP or	
System	REST/SOAP APIs, ESB		
Integration		reservation systems	

External	Stripe, PayPal, Razorpay (via	Secure customer transaction
Payment	MuleSoft or native API)	Secure customer transactions

4. Data & Storage

Туре	Technology	Purpose
Primary Data	Salesforce Data Cloud / Platform	Customer data, bookings,
Store	Salesione Data Cloud / Flationii	preferences
Data Warehouse	Snowflake, AWS Redshift (optional external DW)	Analytical data at scale
Backup &	AWS S3, Salesforce Shield, MuleSoft	Long-term retention and
Archival	connectors	auditing

5. Security & Identity Management

Purpose	Technology	Use Case
SSO & Identity	Salesforce Identity +	Customer and agent login with
330 & Identity	SAML/OAuth2	SSO
Field-Level Security	Salesforce Shield	PII and payment info protection
Access Control	Salesforce Profiles & Roles	Internal and external access management

6. Al & Automation

Technology	Use Case
Salesforce Einstein	Upsell recommendations, case deflection
Einstein Bots	24/7 automated customer support
Flow Builder, Process	Booking confirmations, alerts, case
Builder	triggers
lourney Ruilder	Marketing flows based on user
Journey Duitdel	behavior
	Salesforce Einstein Einstein Bots Flow Builder, Process

7. Monitoring & DevOps

Tool Purpose

Salesforce DevOps Center / Cl/CD pipelines for metadata and code

DataDog / New Relic App performance and real-time monitoring

Track user interactions, security

Salesforce Event Monitoring incidents

Optional Enhancements

• **IoT Integration** (e.g., for baggage tracking): Salesforce IoT Cloud or external platform

• Voice Support: Amazon Connect + Salesforce Service Cloud Voice

• BI Tool Integration: Tableau, Power BI (via CRM Analytics connector)