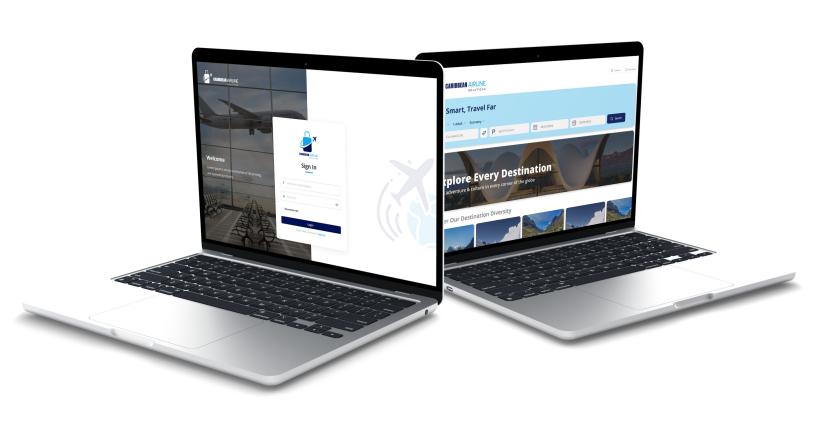




Project Case Study

Caribbean Airline Solutions

Delivering Communication Solutions without compromise.



Project Overview

The project aims to create an integrated system for managing airline

operations, booking flights, checking in, checking out, baggage selection and other operations including pesonal and training records, aircraft and destination data, and maintenance activities. It willfeature real-time flight tracking, weather updates, internal messaging, and ground handling management. The system will offer a responsive design for mobile access, ensuring seamless workflows and efficient communication across all operational aspects.

The airline operations had challenges with its existing system. Booking

Core Problem

user experience. Administrators had trouble managing schedules, fares, and bookings, as there was no simple way to handle these tasks leading to inefficiencies for passengers and staff.

flights was difficult for travelers due to a complicated process and poor

We built a new flight booking and management system for travelers

and airline staff. Our team made the airline managing processes sim-

Solution

pler. Travelers can now easily find and book flights with clear pricing, while staff can easily manage schedules and bookings using easy-to-use platform.

Process Implementation

Our collaboration with Caribbean Airlines was to understand the issues and provide the right solution. We had a detailed discussion with their

team to identify the specific challenges and requirements. After collaboration, we created a customized solution. We worked closely with their team throughout the development process, ensuring every feature, from check-ins to baggage management, was optimized for transparency and efficiency. We also took special care to integrate real-time flight tracking, weather updates, and a messaging system to facilitate communication between internal teams. We used different technologies, including Angular for the front end, ASP.NET Core for the back end, and various third-party integrations, to ensure the system's scalability and reliability.

Flight Booking: Allow users to search and book flights. Check-in & Check-out: Simplify the check-in and check-out processes.

Key Features

Personal & Training Records

Airline Operations Management

Baggage Selection: Manage baggage options for passengers.

Aircraft & Destination Data

Aircraft Management: Track and update aircraft details.

vailability.

Flight Status Updates: Provide real-time tracking of flights, including delays and changes.

Messaging System: Facilitate communication between internal teams for better coordination.

Destination Information: Display relevant information for each destination, including flight

User Profile Management: Store and manage personal records for passengers and staff

Training History: Track and manage users' training records for compliance and development.

Real-Time Flight Tracking

Maintenance Activities

Weather Information: Display current weather updates for destinations and flight routes.

Maintenance Tracking: Log and manage maintenance activities for aircraft.

Ground Operations: Manage ground handling tasks, ensuring smooth operations at airports.

Mobile Access

on the go.

Ground Handling Management

Internal Messaging

Weather Updates

Responsive Design: Ensure the system is mobile-friendly for easy access and updates

Technology Stack



Front-End

Angular





Back-End

ASP.NET Core

ASP.NET

Core

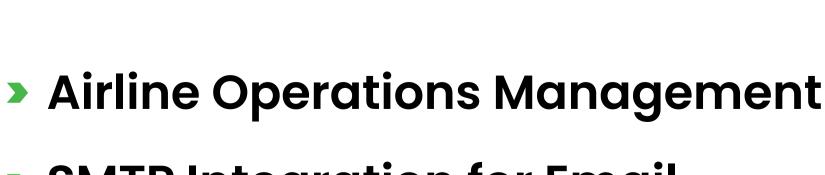
SMTP Integration for Email

Syncfusion Treeview

More Options for you

Top Destination

- Pdf417Generator
- Google Maps
- Chart.js
- ZXing Stripe





More Options for you