

Final Project Summer Code Camp for Web Development Using .NET Track.

Name : Tomas Nageh Adly Fahda

Faculty : Computers and Artificial Intelligence (FCAI)

University: Helwan University

Level : Two _ 2

Final Project Summer Code Camp for Web Development Using .NET Track.



Project System User-Guide

for

SwiftAir

(Airline Management System)

Version 1.0

Prepared by Tomas Nageh Adly Fahda
For ITI Institute - Helwan University Branch

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Introduction

SwiftAir is a comprehensive airline management system designed to streamline flight operations, manage passenger records, and handle booking processes efficiently. This system provides a complete suite of features for airline staff to monitor flights, manage passengers, and maintain operational excellence.

Product Overview

Key Features

- Flight scheduling and management
- Passenger record management
- Boarding pass generation
- Real-time flight status tracking
- Comprehensive search capabilities
- User-friendly interface



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• System Overview.

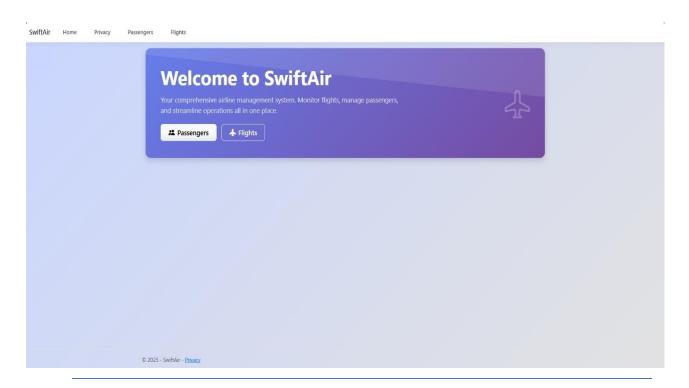
Main Navigation:

- The SwiftAir system consists of four main sections accessible via the top navigation bar:.
- o Home: Dashboard and overview
- o Privacy: Privacy policies and developer information
- o Passengers: Passenger management system
- o Flights: Flight operations and scheduling
- Dashboard Features:
 - Quick access to passenger and flight management
 - Real-time system status
 - Easy navigation between modules

Main Dashboard

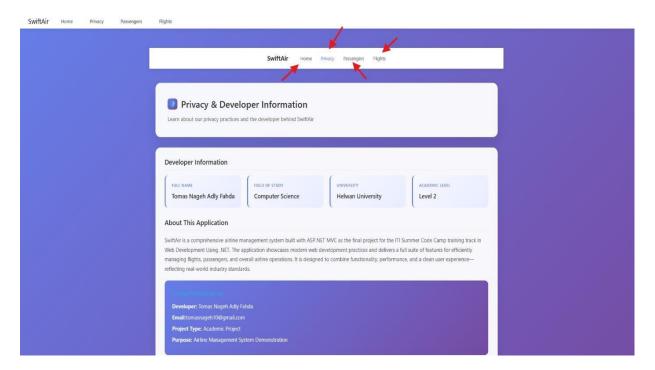
The dashboard provides:

- Welcome message and system description
- Direct access to Passengers and Flights modules
- Clean, intuitive interface design





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Privacy and Developer Information

Developer Details

- **Developer**: Tomas Nageh Adly Fahda
- Field of Study: Computer Science
- University: Helwan University
- Academic Level: Level 2
- Email: tomasnageh10@gmail.com
- Project Type: Academic Project
- Purpose: Airline Management System Demonstration

Application Information

SwiftAir is built with:

- Framework: ASP.NET MVC / EF / SQL
- **Purpose**: Final project for ITI Summer Code Camp
- Focus: Web Development Using .NET
- Design Philosophy: Modern web development practices with clean user experience

Technical Features

- Functional performance optimization
- Clean, intuitive user interface
- Real-world industry standards implementation
- Comprehensive feature set for airline operations

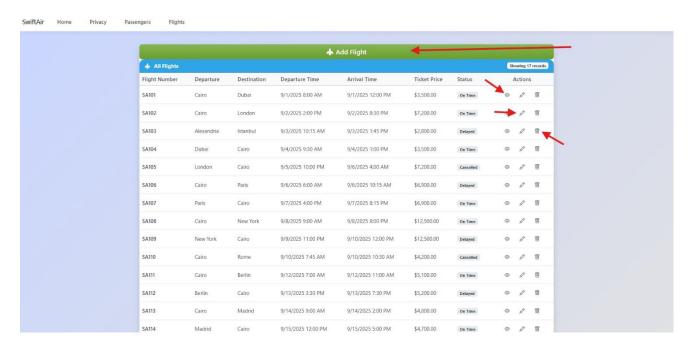


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Flight Management

Flight Information Display

The flight management system provides detailed information for each flight:



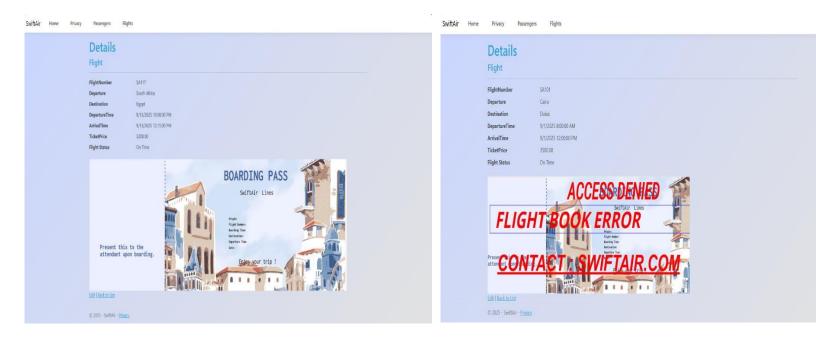
Flight Operations Table

The flights table displays:

- 17 total flight records
- Sortable columns for easy data management
- Action buttons for each flight:
 - **View** (③): View flight details
 - Edit (): Modify flight information
 - Delete (): Remove flight record



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Flight Details Include:

• **Flight Number**: Unique identifier (e.g., SA101, SA102)

• **Departure Location**: Origin city/airport

• **Destination**: Arrival city/airport

• **Departure Time**: Scheduled departure date and time

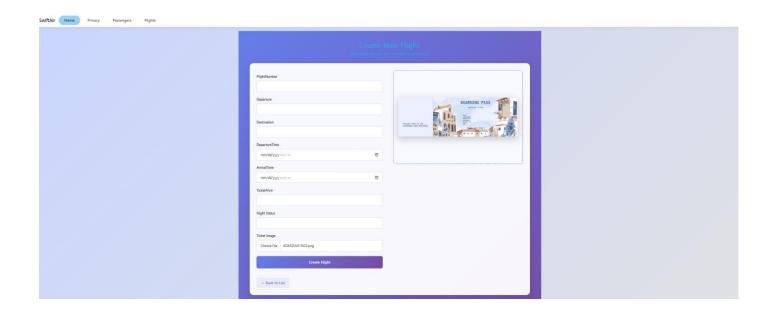
• **Arrival Time**: Expected arrival date and time

• **Ticket Price**: Fare amount in USD

• Flight Status: Current status (On Time, Delayed, Cancelled)



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Adding New Flights

- 1. Click the "Add Flight" button (green button with $\frac{1}{200}$ icon)
- 2. Fill in the flight creation form:
 - Flight Number
 - Departure location
 - Destination
 - Departure Time (mm/dd/yyyy format)
 - Arrival Time (mm/dd/yyyy format)
 - Ticket Price
 - o Flight Status
 - Upload ticket image (optional)
- 3. Click "Create Flight" to save

Flight Status Management

Available status options:

• On Time: Flight operating as scheduled

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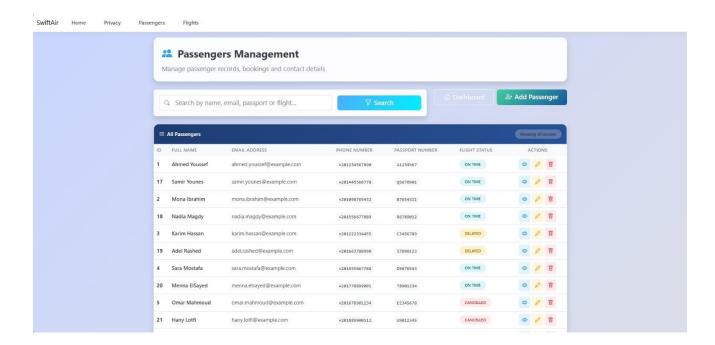
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Passenger Operations

Adding New Passengers

- 1. Click "Add Passenger" button (green button with ♠+ icon)
- 2. Complete the passenger form with required information
- 3. Select associated flight from dropdown
- 4. Save the passenger record

5.

Managing Existing Passengers

Each passenger record provides action options:

- View (③): Display detailed passenger information
- **Edit** (): Modify passenger details
- **Delete** (): Remove passenger record with confirmation

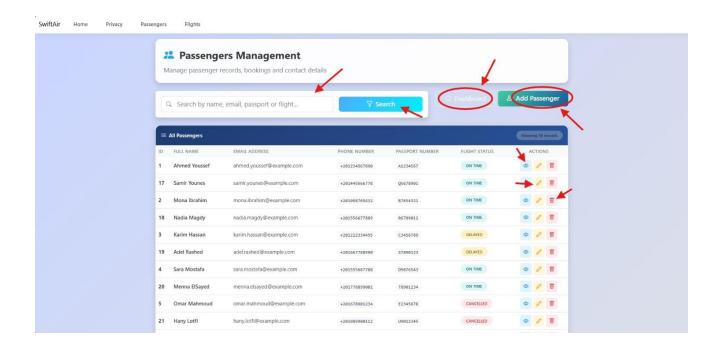
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Flight Status Types

- On Time: Passenger confirmed for on-time flight
- Delayed: Passenger affected by flight delays
- Cancelled: Booking has been cancelled



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Passenger Search

The passenger management system includes powerful search capabilities:

Search Parameters:

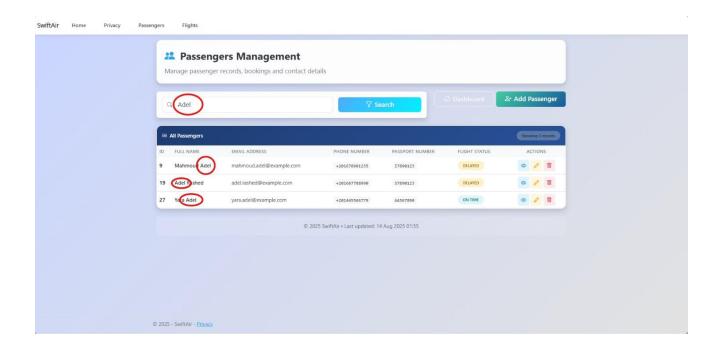
- Search by name
- Search by email
- Search by passport number
- Search by flight number

Search Process:

- 1. Enter search terms in the search box
- 2. Click the **"Search"** button (Q icon)
- 3. View filtered results
- 4. Use "Dashboard" button to return to full view



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Search Results Display (ex : Adel)

- Shows number of records found (e.g., "Showing 3 records")
- Maintains all passenger information columns
- Preserves action buttons for filtered results
- Real-time filtering as you type



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Delayed: Flight experiencing delays
 Cancelled: Flight has been cancelled



⇒ Passenger Management

Passenger Information System

The passenger management module handles complete passenger records:

Passenger Details Include:

• **Passenger ID**: Unique identifier

• Full Name: Complete passenger name

• Email Address: Contact email

• **Phone Number**: Contact number with country code

• Passport Number: Travel document number

• **Date of Birth**: Passenger's birth date

• Flight Status: Current booking status

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Delete Confirmation Process

When deleting a passenger record, the system provides a comprehensive confirmation dialog to prevent accidental deletions. The delete confirmation view displays:

- **Passenger Details**: Complete passenger information including ID, full name, email address, phone number, passport number, and date of birth
- **Associated Flight Information**: Shows the linked flight details including flight number, route (From/To), departure and arrival times, flight status, and ticket price
- Confirmation Question: "Are You Sure You Want To Delete This Passenger?" prominently displayed
- Action Buttons:
 - o **Delete** button (red) to confirm deletion
 - o Back To List button to cancel and return to passenger management