

# ✈️ Online Flight Ticket Booking System

## Graduation Project - Documentation

### 1 Project Planning

**Project Title:** Online Flight Ticket Booking System

#### Project Objectives:

- Automate the process of flight booking and management.
- Allow users to search for flights based on origin, destination, and date.
- Provide secure and simple online booking and payment options.
- Enable administrators to manage flights, schedules, and customers efficiently.
- Improve customer experience by offering e-tickets and booking history access.

#### Project Scope:

The Online Flight Ticket Booking System is a web-based platform that allows customers to search, book, and pay for flight tickets online. It also provides administrators and airline companies with tools to manage flights, reservations, and payments efficiently.

#### Timeline:

Phase	Description	Duration
Week 1	Requirement Gathering, Project Planning & Documentation	Week 1
Week 2	Database Design (ERD) & Backend Setup	Week 1
Week 3	Frontend Development (UI/UX Design & Integration)	Week 1
Week 4	Testing, Debugging & Deployment	Week 1

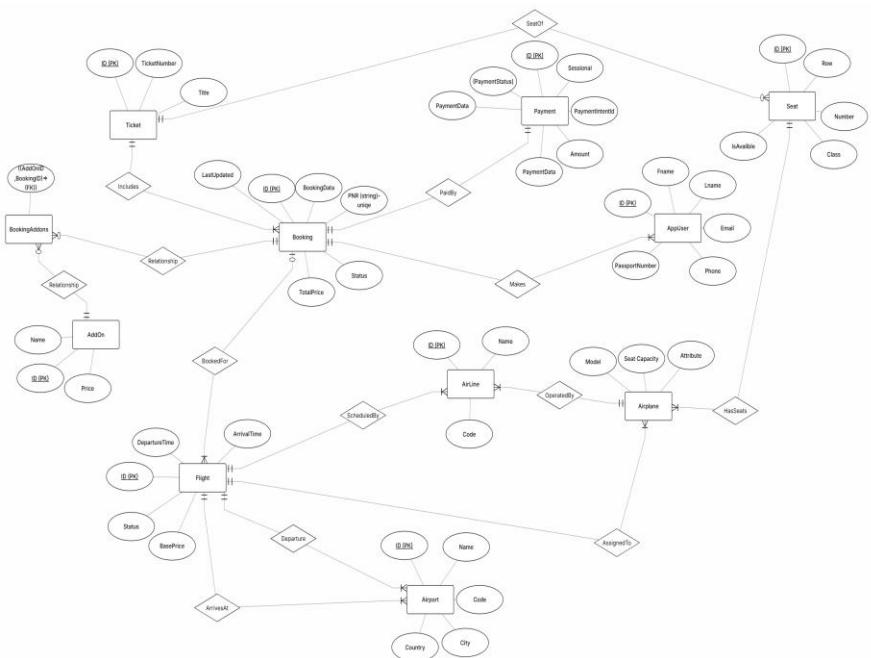
#### Tools & Technologies:

- **Frontend:** HTML5, CSS3, JavaScript, Bootstrap (or React)
- **Backend:** ASP.NET Core MVC (C#)
- **Database:** SQL Server
- **ORM:** Entity Framework Core
- **Authentication:** ASP.NET Identity

## 2 Stakeholder Analysis

Stakeholder	Role	Interests / Needs	Impact
Customer	Uses the system to search and book flights	Ease of use, secure payment, quick booking	High
Administrator	Manages flights, schedules, and bookings	Ease of use, secure payment, quick booking	High
Airline Company	Manages flights, schedules, and bookings	Visibility, passenger management	Medium
Developer Team	Manages flights, schedules, and bookings	Maintainability, scalability	Medium
Project Owner	Oversees overall system performance	Oversees overall system performance	High

## 3 Database Design (ERD Overview)



## 4 UI/UX Design (Wireframes Overview)

The wireframe displays the ABooking Admin Dashboard. At the top, there's a navigation bar with links for Home, Flights, My Bookings, Profile, Airplanes, Airlines, Dashboard, and AddOn. On the right side of the header are Register and Login buttons. Below the header is a large image of a white airplane on a runway at an airport terminal. The main dashboard area contains several sections:

- Quick Stats:** Total Flights (2), Total Airlines (3), Total Airplanes (4), and Total Users (1). There are also buttons for '+ Add Flight', '+ Add Airline', and '+ Add Airplane'.
- Flights by Airline:** A pie chart showing the distribution of flights between EgyptAir (blue) and Qatar Airways (red). The red slice is slightly larger than the blue slice.
- Recent Flights:** A list of recent flight records, each with the airline, aircraft type, route, and timestamp (e.g., 11/1/2025 10:18 PM).
- Monthly Flights (Last 6 months):** A line chart showing the number of flights per month from June 2025 to November 2025. The chart shows a steady increase in flights over time.
- Top Airlines by Flights:** A table listing the top airlines based on the number of flights and their share. Both EgyptAir and Qatar Airways have 1 flight and a 50.0% share.

## All Flights

[Create New Flight](#) [Search Flights](#)

Airline	Airplane	Departure Airport	Arrival Airport	Departure Time	Arrival Time	Base Price	Status	Actions
EgyptAir	Boeing 737	Cairo International Airport	Dubai International Airport	11/1/2025 8:18 PM	11/1/2025 10:18 PM	\$500.00	Scheduled	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a>
Qatar Airways	Boeing 777	Doha International Airport	Cairo International Airport	11/1/2025 10:18 PM	11/1/2025 1:18 PM	\$400.00	Departed	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a>

## Search Flights

[Search](#)

Airline	Airplane	From	To	Departure	Arrival	Price	
EgyptAir	Boeing 737	Cairo International Airport	Dubai International Airport	11/1/2025 8:18 PM	11/1/2025 10:18 PM	\$500.00	<a href="#">Details</a>
Qatar Airways	Boeing 777	Doha International Airport	Cairo International Airport	11/1/2025 10:18 PM	11/1/2025 1:18 PM	\$400.00	<a href="#">Details</a>

## Airplanes List

[Add New Airplane](#)

Model	Capacity	Airline	Actions
Boeing 737	180	EgyptAir	<a href="#">Edit</a>
Airbus A320	150	EgyptAir	<a href="#">Edit</a>
Boeing 777	396	EgyptAir	<a href="#">Edit</a>
Airbus A350	300	EgyptAir	<a href="#">Edit</a>

## Airlines List

[Add New Airline](#)

Name	Code	Actions
EgyptAir	EGY	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a>
Emirates	EMR	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a>
Qatar Airways	QTR	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a>

# Add New Airplane

Model

Seat Capacity

Airline

CreateBack to List