BookIT

Software Design Documentation

**Airline Reservation Service**

[1 Introduction 1](#_Toc107081800)

[1.1 Purpose 1](#_Toc107081801)

[1.2 Scope 1](#_Toc107081802)

[1.3 Overview 1](#_Toc107081803)

[1.4 Version Change 1](#_Toc107081804)

[2 Use Cases 2](#_Toc107081805)

[2.1 Actors 2](#_Toc107081806)

[2.2 List of Use Cases 2](#_Toc107081807)

[2.3 Use Case Diagrams 2](#_Toc107081808)

[2.4 Use Cases 2](#_Toc107081809)

[3 Design Overview 3](#_Toc107081810)

[3.1 System Architecture 3](#_Toc107081811)

[3.2 System Objects 3](#_Toc107081812)

[3.2.1 Class Diagrams 3](#_Toc107081813)

[3.2.2 Class Diagrams Descriptions 3](#_Toc107081814)

[3.3 Constraints and Assumptions 3](#_Toc107081815)

[3.4 Design Pattern 3](#_Toc107081816)

[4 User Interface and Wireframes 4](#_Toc107081817)

[4.1 Wireframes 4](#_Toc107081818)

[4.2 User Interfaces 4](#_Toc107081819)

[5 Database Design 5](#_Toc107081820)

[5.1 Entity Relationship Diagram 5](#_Toc107081821)

[6 Dynamic Model 6](#_Toc107081822)

[6.1 Flowchart Diagram 6](#_Toc107081823)

[6.2 State Diagram 6](#_Toc107081824)

[7 Non-Functional Requirements 7](#_Toc107081825)

[7.1 Performance Requirements 7](#_Toc107081826)

[7.2 Design Constraints 7](#_Toc107081827)

[8 Testing 8](#_Toc107081828)

[8.1 Test Cases 8](#_Toc107081829)

[Figure 1 Entity Relationship Diagram 8](#_Toc107222106)

# Introduction

## Purpose

BookIT aim to allow a user to book a plane ticket, check the seats on each route.

## Scope

## Overview

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## Version Change

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# Use Cases

## Actors

Client

Admin? (optionnal)

Compagnie aérienne? (bonus)

## List of Use Cases

Client:

* Create an account
* Search all flights
* Search a flight by date
* Search a flight by price
* Check avaible seats on a flight
* Book a seat on a flight
* Manage reservations

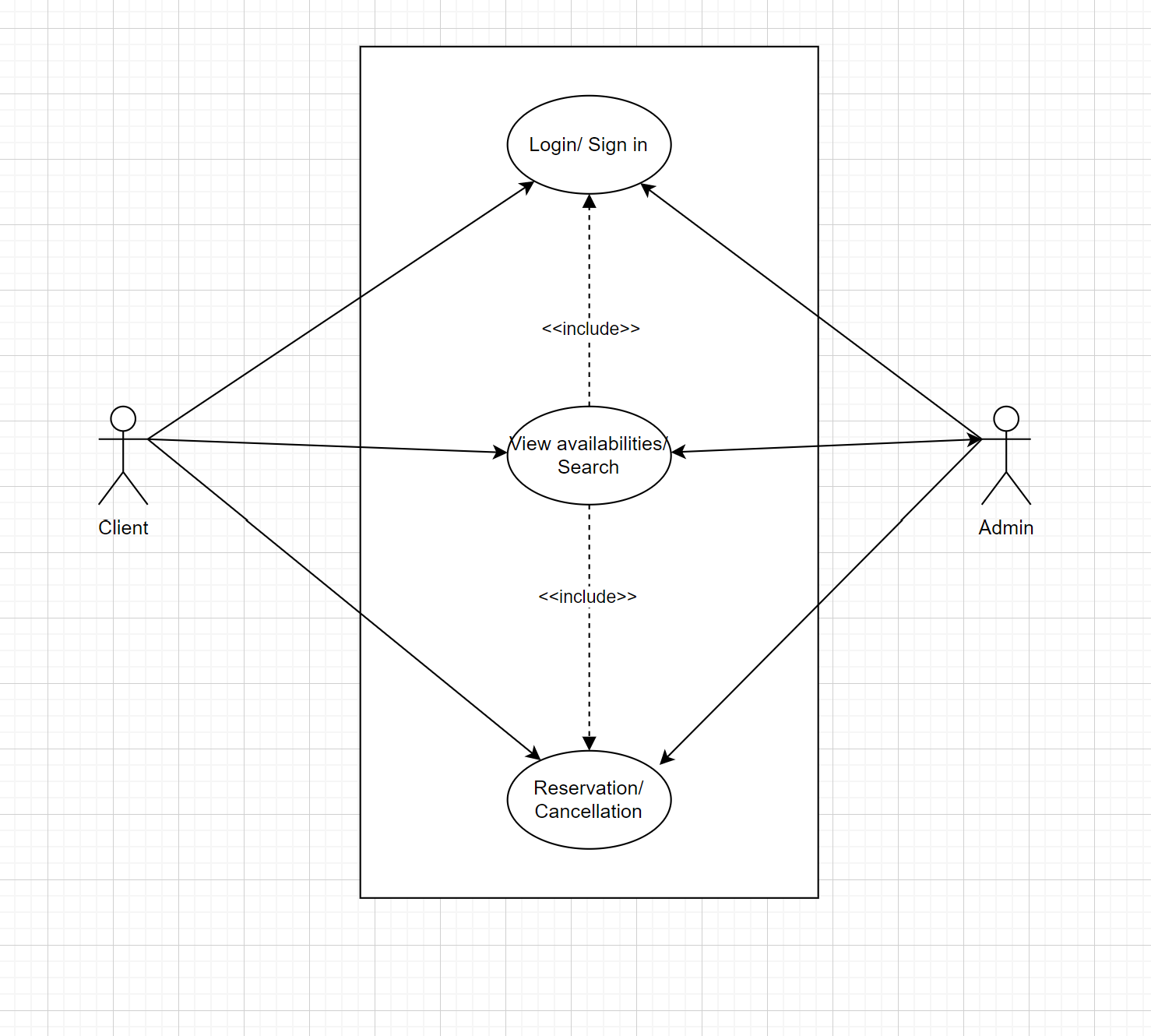
Admin (optionnal) :

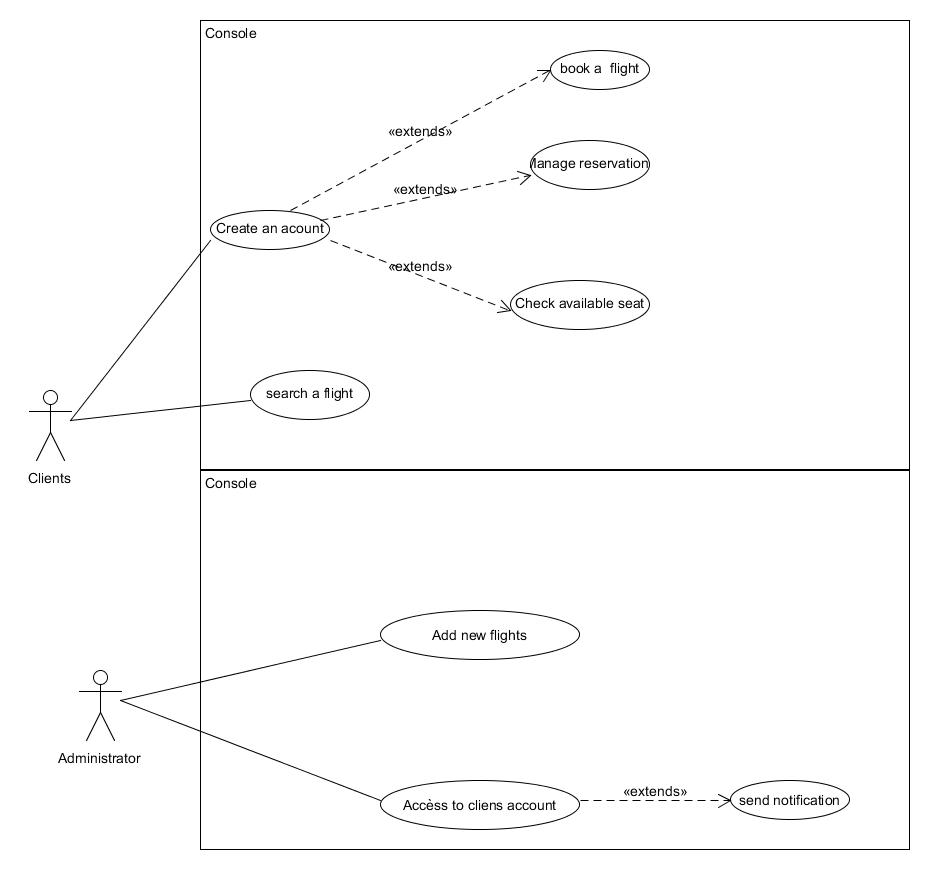
* Cancel a reservation
* Check all reservations
* Update a reservation

Compagnie aérienne (bonus) :

* Add a route
* Update fly status

## Use Case Diagrams





## User Stories

As a client,

I want to search and reserve my ticket, seat number, and pay for it.

So that I can finalize my flight.

As an airline company,

I want to show my available flights, destination, hours, and prices.

So that I can sell my tickets to the clients.

As the service web,

I want to show all the availabilities, reservations in real time,

So that the airline company and the clients can finalize their purchase,

# Design Overview

## System Architecture

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## System Objects

### Class Diagrams

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### Class Diagrams Descriptions

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## Constraints and Assumptions

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## Design Pattern

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# User Interface and Wireframes

## Wireframes

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## User Interfaces

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# Database Design

## Entity Relationship Diagram



Figure 1 Entity Relationship Diagram

# Dynamic Model

## Flowchart Diagram

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## Sequence Diagram

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# Non-Functional Requirements

## Performance Requirements

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## Design Constraints

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# Testing

## Test Cases

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