FCIS AIN SHAMS UNIVERSITY

Faculty of Computer and Information Sciences
1995

Team ID: 23 – Flight Reservation Systems

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SRS Document

1.Introduction:

The Flight Reservation System is an online platform that allows users to search, book, and manage flight reservations. The system should be user-friendly, efficient and secure with features that serve both customers and administrators.

2.User Requirements:

The user shall control a lot of capabilities like booking a ticket, searching for a flight, cancelling the flight, checking the status of the flight and check the credit.

3.Functional Requirements

1.User Registration:

Description	Users should be able to create accounts on the system
Inputs	Personal information
Source	New Customers
Pre-Condition	He should enter a valid e-mail and true information
Post-Condition	The customer will have an account
Output	The log-in Page will be displayed

2.User Log-in:

Description	Users should be able to Sign-in using his account
Inputs	Email and Password
Source	Registered Customer
Pre-Condition	Valid e-mail and password
Post-Condition	The customer will be signed
Output	The home page will be displayed

3.Flight Search:

Description	Users should be able to search for flights based on their desired travel dates and locations.
Inputs	Flight specifications and description
Source	User came from Log-in page
Pre-Condition	Logged-in successfully and want to find a flight
Post-Condition	The user can find the flight which he wants
Output	Flight reservation form

4.Flight Booking:

Description	Users should be able to book flights and select their seats
Inputs	Customer pressed book flight
Source	Customer chose a flight
Pre-Condition	User entered the right information and picked an available seat
Post-Condition	The customer can pay for the credit
Output	The payment page will display

5.Payment Processing:

Description	The system should be able to process payment securely
Inputs	Credit card info
Source	Customer wants to pay for his chosen flight
Pre-Condition	User Entered a valid credit card which has the price of the flight
Post-Condition	The customer Booked the ticket successfully
Output	The ticket will display with the right Information

6.Reservation Management:

Description	Users should be able to view or modify or cancel the flight
Inputs	Ticket number and flight location and date
Source	Customer already has a ticket
Pre-Condition	Customer didn't break the deadline of modifying and cancellation
Post-Condition	Customer can change his flight or change his seat or cancel it
Output	A new ticket with new modified Receipt will display

4.Non-Functional Requirements

1- Performance:

The system should be able to handle a large number of concurrent users and process reservations quickly.

2- Security:

The system should use encryption to protect users' personal and payment information.

3- Availability:

The system should be available to users 24/7 with minimal downtime.

4- Usability:

The system should be easy to use and navigate for both beginner and experienced users.
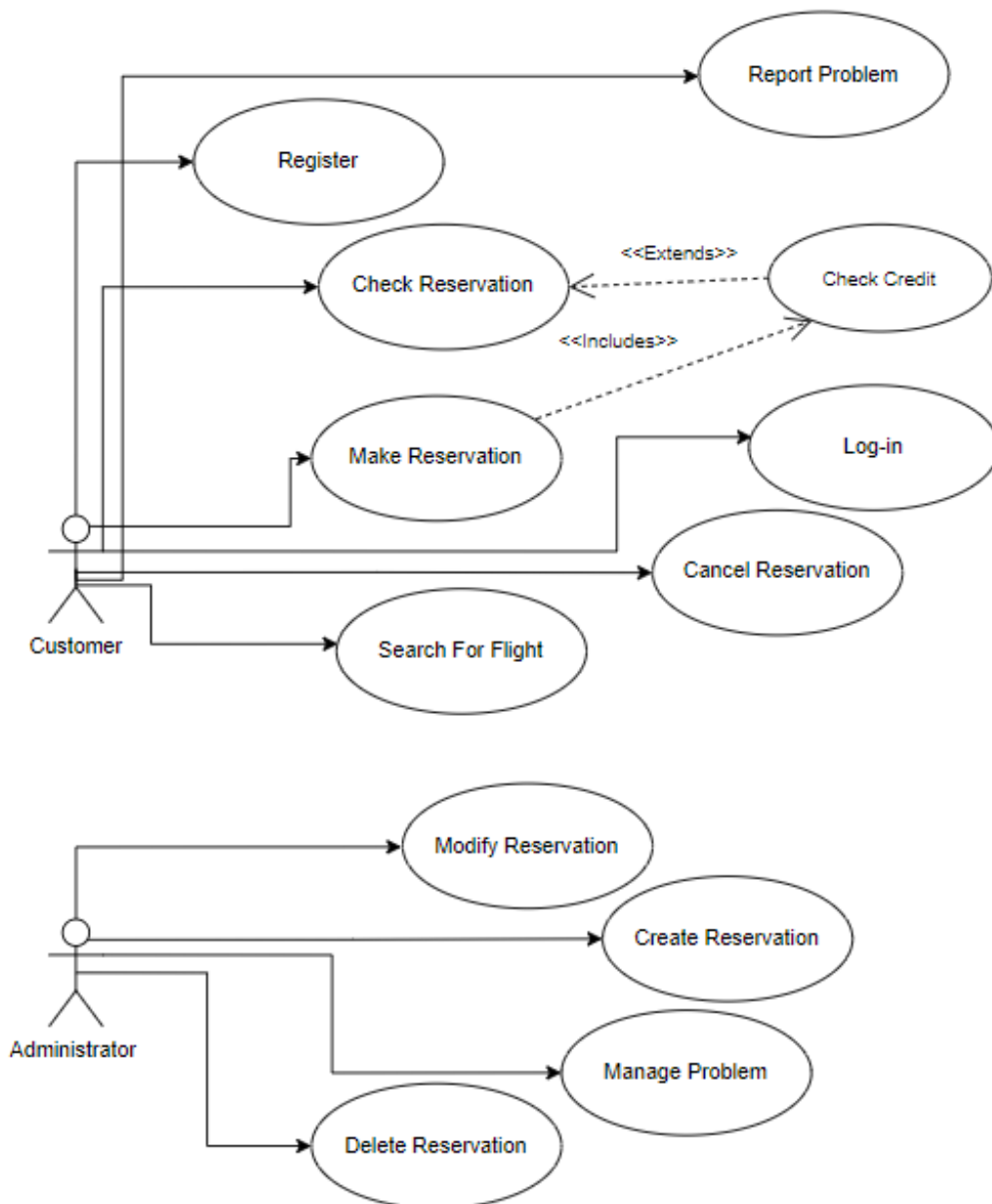
5- Compatibility:

The system should be compatible with a range of web browsers and devices.

6- Scalability:

The system should be able to handle an increasing number of users and transactions as the user base grows.

USE CASE

Sequence Diagram

For (make reservation) use case: