Use Case Name:	Manage Ticket
Scope:	ZAir
Level:	User goal
Primary Actor:	Customer
Pre-conditions:	The user has an account in the system and there are flights stored in the system.
Post-conditions:	The user has booked a flight. The user has removed a booking.
Main Success Scenario:	BOOKING: 1. User inserts user name and password and logs in. 2. User chooses to see the cheapest flights. 3. System displays a list of ten cheapest flights. 4. User selects a flight from the list. 5. User confirms his choice via button press. 6. System displays a list of available seats. 7. User selects a seat. 8. The user confirms his choice via button press. 9. The system displays a message "Successfully booked. Thank you!" REMOVING: 1. User inserts user name and password and logs in. 2. The user checks his profile. 3. User selects a ticket from his flight history 4. User confirms his choice. 5. The system displays a message "Are you sure you want to cancel the ticket?" 6. The user confirms his choice.
Extensions:	BOOKING: 1a. At the time of login, the user chooses to register himself in the database: 1. The user inputs his first name, last name, email, passport number, phone, username and password. 2. The user chooses to register in the system. 1a. The user inputs an invalid first name. 1. The system signals with an error "Incorrect first name" and the user must introduce his

	name consisted of letters.

1b. The user inputs invalid email.

1. The system signals with an error "Incorrect email" and the user must introduce the full address with @ and service used (ex: Gmail)

1c. The user inputs invalid phone

1. The system signals with an error "Incorrect phone" and the user must introduce a telephone number consisted of digits.

1d. The username is already in the system.

1. The system signals with an error "Username is already used by another customer" and the user must introduce another username.

3. The system displays the message "Successfully added!".

4. User logins.

2a. The user chooses to see today's flights and gets a list of flights that have the departure time today.

1a. The system displays a message "no flights for today" when there are no flights for the current calendar date.

2b. The user selects an origin, destination, time of departure and time of arrival. Origin and destination are chosen through a dropdown list. Time of departure and time of arrival are chosen through a calendar with day, month and year and chooses to search.

1a. The system displays a message "Please use the date choosers to select date" when there is no date of departure or/and date of arrival.

1b. The system displays a message "No flights" when there are no flights found to match the selected origin,

destination, day of departure, day of arrival.

6a. The system displays a message "no flight selected".

9a. The system displays the message "You already booked a ticket for this flight!" when you already have that flight booked.

9b. The system displays the message "Flight was removed by the administrator!" when the flight was removed while booking.

REMOVING:

1a. At the time of login, the user chooses to register himself in the database:

    1. The user inputs his first name, last name, email, passport number, phone, username and password.

    2. The user chooses to register in the system.

        1a. The user inputs an invalid first name.

            2. The system signals with an error "Incorrect first name" and the user must introduce his name consisted of letters.

        1b. The user inputs invalid email.

            2. The system signals with an error "Incorrect email" and the user must introduce the full address with @ and service used (ex: Gmail)

        1c. The user inputs invalid phone

            1. The system signals with an error "Incorrect phone" and the user must introduce a telephone number consisted of digits.

        1d. The username is already in the system.

            1. The system signals with an error "Username is already

	used by another customer" and the user must introduce another username. 3. The system displays the message "Successfully added!". 4. User logins. 3a. The system displays the message "Please select a ticket to remove" if the user doesn't select a ticket.
Note:	

Use Case Name:	Manage Flights
Scope:	ZAir
Level:	User goal
Primary Actor:	Administrator
Pre-conditions:	No preconditions.
Post-conditions:	Details about a flight are either added or removed from the application and the database.
Main Success Scenario:	ADD FLIGHT: 1. Administrator chooses origin city, destination city, departure date, arrival date, departure time, arrival time and types in the price. 2. Administrator validates his choice. 3. System displays the message "Successfully added". REMOVE FLIGHT: 1. System displays a list of all flights 2. Administrator selects the specific flight to remove; 3. Administrator validates his choice. 4. System displays the message "Successfully removed". REMOVE FLIGHT AFTER SEARCHING: 1. Administrator types in the flightID. 2. System displays the flight with that flightID. 3. Administrator selects the flight. 4. Administrator validates his choice. 5. System displays the message "Successfully removed".

Extensions:	ADD FLIGHT SCENARIO:
	1a. At any time, Administrator cancels the operation;
	1b. Destination city is the same as the origin city:
	     1. System notifies the Administrator about the error "Origin and destination must have different values.".
	1c. Departure date and arrival date are invalid:
	     1a. Departure date is before the current date:
	          1. System notifies the Administrator about the error "Departure date should not be before today'.

1b. Arrival date is before the departure date:
    1. System notifies the Administrator about the error "Arrival date cannot be before the departure date!".
1c. Departure date and/or arrival date are not chosen:
    1. System notifies the Administrator about the error "Please use the date choosers to select the date".
1d. Departure date and arrival date coincide:
    1a. Departure time and arrival time coincide:
        1. System notifies the Administrator about the error "Arrival time cannot have the same value as the departure time!".
    1b. Arrival time is before the departure time:
        1. System notifies the Administrator about the error "Arrival time cannot be before the departure time!".
1e. Invalid price format:
    1. System notifies the Administrator about the error "Price has to be a number! No other characters are allowed.".
2a. Administrator doesn't validate his choice.
    1. System cancels the operation.
3a. A flight with the same details is already existent in the system:
    1. System notifies the Administrator about the error "This flight already exists in the system.".
    2. System cancels the operation.

REMOVE FLIGHT SCENARIO:
2a. Administrator doesn't select a specific flight:
    1. System signals the Administrator to select a flight if available "Please select a flight to delete!".
3a. Administrator doesn't validate his choice:
    1. System cancels the operation.

REMOVE FLIGHT AFTER SEARCHING SCENARIO:

	2a. System doesn't find a flight with the specified flightID:
	1. System notifies the Administrator that there is no flight with the specified flightID "No flight with the id has been found".
	3a. Administrator doesn't select the specific flight:
	1. System signals the Administrator to select a flight if available "Please select a flight to delete!".
	4a. Administrator doesn't validate his choice:
	1. System cancels the operation.
Note:	ADD FLIGHT SCENARIO: The system will take the alternative flow in the order specified above, even though multiple exceptions from the base flow might happen at the same time.