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| **Use Case #1: Manage Flights** |
| **Scope:** ZAir application |
| **Level:** User goal |
| **Primary Actor:** Administrator |
| **Preconditions:** No preconditions |
| **Postconditions:** Details about a flight are either added or removed from the application and the database. |
| **Basic Flow:**   * **Add flight scenario:**  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 scenario:**  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 scenario:**   1. Administrator types in the flightID.  2. System displays the flight with that flightID.  3. Administrator selects the flight.  4. Administrator validates his choice.   1. System displays the message “Successfully removed”. |
| **Alternative Flows:**   * **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! Make sure the price field is completed as well”.  **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:  1. 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!”.  2. 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 f 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. |
| **Notes:**   * **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. |