

Flight Management

Manage Flights (UC12)

Information	Description
Precondition(s)	<ul style="list-style-type: none">• System Administrator must be logged in.• System Administrator must be on the Admin Dashboard.
Actor	System Administrator
Main Scenario	<ol style="list-style-type: none">1. System Administrator selects "Flight Management" from the dashboard.2. System displays all flight management options (Add Flight, Update Flight, Remove Flight, View Flight).3. System Administrator selects one of the operations.4. System redirects to the selected use case (UC13, UC14, UC15, or UC16).
Alternative Scenario	<ol style="list-style-type: none">1. System Administrator selects "Flight Management".2. System displays flight management options.3. System Administrator clicks the "Back" button.4. System returns to the Admin Dashboard.

Add Flight (UC13)

Information	Description
Precondition	<ul style="list-style-type: none">• System Administrator must be logged in.• System Administrator must have selected "Add Flight" from Manage Flights (UC12).
Actor	System Administrator
Main Scenario	<ol style="list-style-type: none">1. System displays a form to enter new flight details (e.g., flight number, origin, destination, time, aircraft type, price).2. System Administrator enters the

	<p>flight details.</p> <ol style="list-style-type: none"> 3. System Administrator clicks the "Create" button. 4. System validates the input, creates the new flight record in the database, and displays a success confirmation. 5. System returns to the Manage Flights screen.
Alternative Scenario	<ol style="list-style-type: none"> 1. System Administrator enters flight details and clicks "Create". 2. System determines the flight number already exists or data is invalid. 3. System displays an error message indicating the invalid fields. 4. System Administrator creates a corrected entry or cancels the operation to return to the Manage Flights screen.

Update Flight (UC14)

Information	Description
Precondition	<ol style="list-style-type: none"> 1. System Administrator must be logged in. 2. System Administrator must have selected "Update Flight" from Manage Flights (UC12).
Actor	System Administrator
Main Scenario	<ol style="list-style-type: none"> 1. System displays a list of existing flights. 2. System Administrator selects a specific flight to edit. 3. System displays the current details of the flight in an editable form. 4. System Administrator modifies the necessary details. 5. System Administrator clicks the "Update" button. 6. System validates the changes, updates the database, and displays a success confirmation.
Alternative Scenario	<ol style="list-style-type: none"> 1. System Administrator modifies details and clicks "Update". 2. System detects an error. 3. System displays an error message. 4. System Administrator corrects the

	data and re-submits or clicks "Cancel" to abort changes.
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Remove Flight (UC15)

Information	Description
Precondition	<ol style="list-style-type: none"> 1. System Administrator must be logged in. 2. System Administrator must have selected "Remove Flight" from Manage Flights (UC12).
Actor	System Administrator
Main Scenario	<ol style="list-style-type: none"> 1. System displays a list of existing flights. 2. System Administrator selects the flight to remove. 3. System prompts for confirmation to delete the flight. 4. System Administrator confirms the deletion. 5. System removes the flight record from the database and displays a success message.
Alternative Scenario	<ol style="list-style-type: none"> 1. System Administrator selects a flight to remove. 2. System checks constraints and finds active bookings associated with this flight. 3. System prevents deletion and displays an error message: "Cannot remove flight with active reservations." 4. System Administrator acknowledges and returns to the flight list.

View Flight (UC16)

Information	Description
Precondition	<ol style="list-style-type: none"> 1. User must be logged in as System Administrator OR Flight Agent. 2. User must have selected "View Flight" from their respective dashboard/menu.
Actor	System Administrator, Flight Agent
Main Scenario	<ol style="list-style-type: none"> 1. System displays a search bar and a list of all flights. 2. User enters a flight number or

	<p>selects a flight from the list.</p> <ol style="list-style-type: none">3. System displays the full details of the selected flight (Schedule, Aircraft, Route, Current Bookings).4. User reviews the information.5. User clicks "Back" to return to the flight list.
Alternative Scenario	<ol style="list-style-type: none">1. User enters a flight number in the search bar.2. System cannot find a match for the entered flight number.3. System displays a "Flight not found" message.4. User re-enters criteria or clears the search.