

# Flight Management

## Manage Flights (UC12)

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

## Add Flight (UC13)

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

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

## Update Flight (UC14)

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

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

## View Flight (UC16)

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

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