

Use Cases

Aircrafts

UC1: Adding aircrafts

Primary actor

- Manager

Stakeholders and Interests:

- Manager: Wants to be able to add aircrafts in the system
- Company: Wants to catalog aircrafts in the system. Wants to audit all operations on all aircrafts in the catalog.

Preconditions

- Manager registered and allowed to add aircrafts in the system

Postconditions

- A new aircraft is saved in the system
- A confirmation message is sent to the manager
- Manager is redirected to the aircraft's detail page

Main success scenario

1	Manager navigates to the “Add Aircrafts” page
2	Manager enters the aircraft’s serial number Manager enters the aircraft’s model name
3	System validates the serial number is not empty System validates the model name is not empty
4	User submits the form to the system
5	System generates a new registration number, sets the registration status to “pending”, sets the registration date to the current time and saves the aircraft. System logs the the aircraft creation event and redirects the manager to the aircraft’s view page. System presents manager with a confirmation message and the aircrafts serial number, model name, registration number, registration status and registration date.

Extension 3A: The serial number or the model name is empty

1	System verifies that the serial number or the model name is empty and presents a validation error to the manager
2	Manager enters a valid serial number and model name
3	System validates the serial number and model name
4	Manager moves forward with the rest of the operation

Extension 4A: System fails to respond before the request times out or responds with a server error

1	System presents the manager with an error message that the request did not process correctly due to a connexion timeout or a server error. System prompts the manager to try again.
2	Manager resubmits the form to the system
3	System processes the request and moves forward with the rest of the operation
3.1	System had saved the aircraft registration on the first attempt
3.1.1	System verifies that the serial number duplicates the record that was created on the first attempt. System presents a validation error to the manager that an aircraft with the same serial number already exists.
3.1.2	Manager cancels the operation.

3.1.3	Manager navigates to the “Aircrafts” page and searches for the aircraft in the listing
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Extension 5A: An aircraft with the same serial number already exists in the system

1	System verifies that an aircraft already exists in the system with this serial number and presents an error message for the field to let the manager know that it already exists.
2	Manager enters a unique serial number and submits the form
3	The system validates the serial number and moves forward with the rest of the operation

UC2: Listing aircrafts

Primary actor

- Manager

Stakeholders and Interest

- Manager
- Company

Preconditions

- Manager is registered and allowed to list aircrafts

Postconditions

- A list of aircrafts is returned to the manager with the model name, serial number, registration number, registration status and registration date

Main success scenario

1	Manager navigates to the “Aircrafts” page
2	System presents the manager with a list of all the aircrafts in the system. Each entry displays the model name, the serial number, the registration number, the registration status and the registration date. Each entry includes a link to the aircraft’s view page.

Extension 2A: System found no aircraft in its database

1	System displays a notification box warning the manager that no airplane could be found in the system.
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UC3: Viewing an aircraft

UC4: Updating an aircraft

UC5: Deleting an aircraft

UC6: Approving an aircraft registration

UC7: Registering a manager

UC8: Identifying and authenticating a manager