

Functional requirements

Name	FR#1	Randomly generate a list of flights
Summary	Generate a list of flights where each of the elements has randomly generated attributes and a unique flight number.	
Input	Number of flights to generate	
Output	A list of flights with randomly generated attributes	

Name	FR#2	Search for a flight by any of the criteria
Summary	You can search for flights by date, by hour, by flight number, by city, etc. If there is more than one flight that matches the criteria sought, then the first flight found will be displayed.	
Input	The search criterion	
Output	The first flight that matches the criteria. If no matches are found, then it returns null	

Name	FR#3	Sort flights by any of the criteria
Summary	You can sort the flights by date, by hour, by flight number, by city, etc.	
Input	The sort criterion	
Output	The list of flights is ordered according to the specified criterion	

Name	FR#4	Switch of page
Summary	Show the next page of flights or the previous page of flights depending on the decision that the user takes through some control. This is only possible if the requested page exists.	
Input	The decision of the user. It can be either next or previous.	
Output	The list of flights is ordered according to the specified criterion	

Non-functional requirements

ID	Description
NFR#1	The time format that will be shown to the user is AM/PM
NFR#2	Create the graphic user interface using javafx

Traceability

ID	Functional requirement	Method	Class
FR#1	Randomly generate a list of flights	generateFlightList getRandomCity getRandomAirline	Airport
FR#2	Search for a flight by any of the criteria	searchByDate searchByTime searchByAirline searchByFlightNumber searchByDestinationCity searchByBoardingGates	Airport
FR#3	Sort flights by any of the criteria	sortByDateAndTime sortByDate sortByTime sortByAirline sortByFlightNumber	Airport

		sortByDestinationCity sortByBoardingGates	
FR#4	Switch of page	nextPage previousPage setupPage	AirportController

