

Airport case

Write a small application client/server to manage the information system of an airport. The airport manages arrival and departures. For each flight it is necessary to display the code (e.g. AZ383), the carrier (e.g. British Airways), the departing airport, the destination airport, the day(s) of the week in which this flight happens, the departure and arrival time. Every time a flight starts, it is necessary to represent the data and time of departure and the number (integer) of the lane used. Every time a flight lands, it is necessary to similarly represent the date and the time of landing and the used lane. One or more flight controllers should be attached to each departure/landing. Each controller is represented by a code (e.g. c01), a name and a surname.

The application should allow the following usages:

User recording departure/landing

- The user states the flight code
- the system visualizes the data of the flight, with the actual flight data of the past week
- the user chooses if they want to register a new departure or arrival
- the user fills in data regarding the new departure or arrival
- for each of the controllers attached to the flight
 - the user fills in the code of the controller
 - the system adds the controller to the flight departure/arrival
- the system registers the data of the new departure/arrival and visualizes a page that summarizes all the recorded data.

other scenarios:

inexistent flight: the system visualizes an error message and asks the user to correct the data

departure/arrival already registered: the system visualizes an error message and asks the user to correct the data

controller not existent or already assigned: the system visualizes an error message and asks the user to correct the data

development structure

- write the schema of the application
- develop a fragment of application that allows the completion of the use cases
- use an appropriate graphical interface

respect the following functional guidelines

- use html5 for structuring of contents (view)



- use javascript (jquery and preferably angular.js) to check the application and dom elements
- persistence layer can be developed in database or in javascript or in file

what is going to be judged:

- conceptualization of the schema of the application
- correct conceptual separation between presentation, content and behavior
- syntax of the code (correct knowledge of languages, readability, comprehension)
- usability of the application and improvement of experience via js
- accessibility from multiple browsers (less important)
- performances of application