Flight Planning System

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Flight Planning System

I. Presentation

The project is about the developpement of a web application for flight companies.

It would allow them to plan flights easily and share required information with employees.

The sharing information should be available on smartphone and tablet in addition to computer.

II. Users

1) OCC (Operations Control Center)

- Dedicated interface in a web browser

- The only user able to register and modify the information either by manual input or by an import from an excel sheet
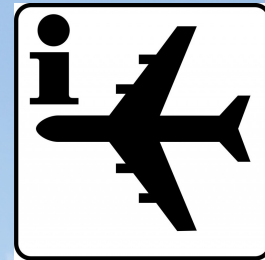
2) Crew

- Interface on mobile platforms

- Consult their flight information and the related weather data

III. Business Objects (1/2)

- Flight information :

  - Commercial number
  - ATC number (Air Traffic Control)
  - Departure/Arrival Airport code
  - Departure/Arrival time and date
  - Crew
  - Plane Identifier
  - Weather Maps
  - Commercial leaflet
  - NOTAM (notice to airmen)
  - OFP (Operational Flight Planning)

- Plane :

  - Identifier
  - ICAO (International Civil Aviation Organization)
  - Status

- Airport :

  - Identifier
  - ICAO (International Civil Aviation Organization)
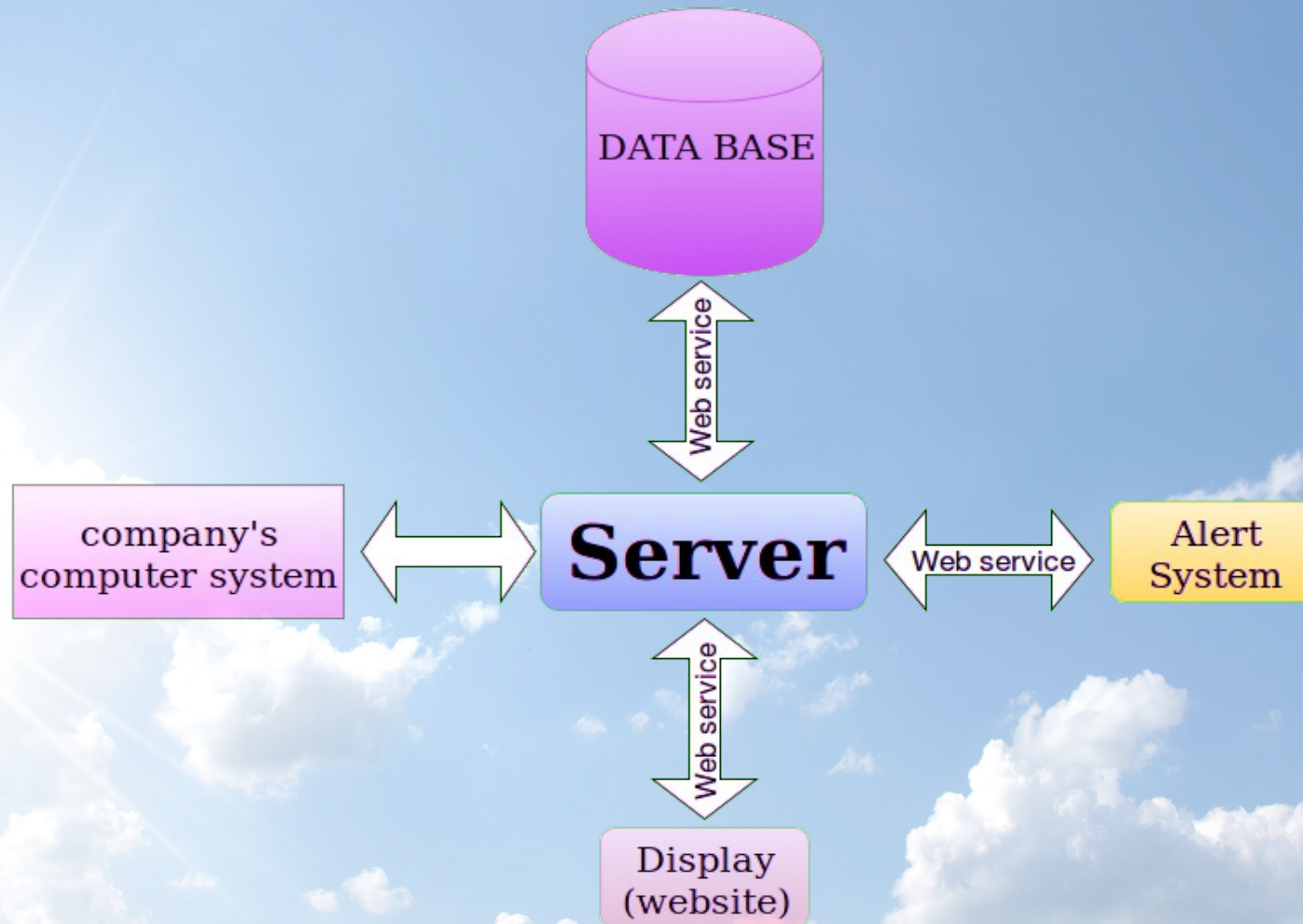
III. Business Objects (2/2)
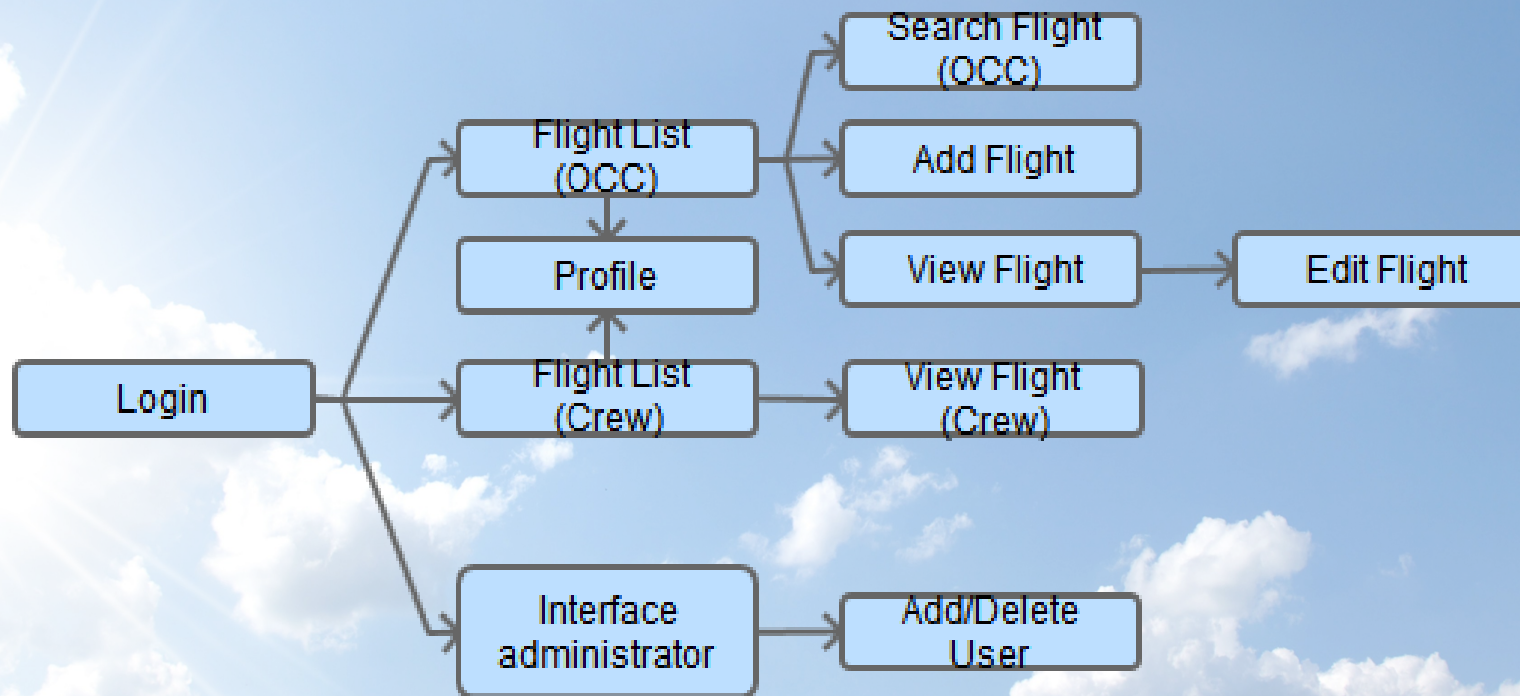

- <u>Crew</u> :
- Name
- Status (Pilot/Steward)

- <u>User</u> :
  - Mail
  - Password
  - Status (OCC/Crew)

IV. Diagram

V. Navigation Diagram

VI. Mock-ups : Login screen

VI. Mock-ups : Flight list screen

Flight Planification System   Profile

ALERT : xxxxxxxxxxxx

Flights List

Add Flight   🔍 Search : Commercial n°, Airport, Date ...   ⊗

Edit	Commercial n°	Departure : Airport	Arrival : Airport	Departure : Date & Time(ZULU)	Arrival : Date & Time(ZULU)	Delete
Edit	TVF1234	CDG	DAJ	25/02/2016 - 08:00	25/02/2016 - 22:00	Delete
Edit	TKJ1934	CDG	GAA	25/02/2016 - 08:00	25/02/2016 - 15:00	Delete
Edit	NEDB3572	ORY	DAA	25/02/2016 - 08:00	25/02/2016 - 23:00	Delete
Edit	KBYH5797	ORY	JFK	25/02/2016 - 08:00	25/02/2016 - 17:00	Delete
Edit	BJGI3534	BLR	CDG	25/02/2016 - 08:00	25/02/2016 - 18:00	Delete
Edit	BDTF3409	BLR	CDG	30/02/2016 - 08:00	30/02/2016 - 18:00	Delete
Edit	LJKI0976	JFK	CDG	25/04/2016 - 08:00	25/04/2016 - 17:00	Delete
Edit	BDNR3577	JFK	CDG	03/06/2016 - 08:00	03/06/2016 - 17:00	Delete
Edit	MPKU5724	DAA	CDG	25/02/2016 - 08:00	25/02/2016 - 23:00	Delete
Edit	GYTY8907	DAA	CDG	15/03/2016 - 08:00	15/03/2016 - 23:00	Delete

1 | 2 | 3

VII. Web-services

Method	URL	Behavior
GET	/login/{username}	Returns true if the username is found in the user database and the entered password is valid. Returns false otherwise.
GET	/flight_list	Returns the list of flights.
POST	/flight_list/{id}/edit	Modify the details of flight for the corresponding « id ».
PUT	/flight_list/add	Add a flight
DELETE	/flight_list/{id}	Delete a flight
GET	/flight_list/search/{criteria}	Returns the list of flights matching the search criteria.
GET	/flight_list/{id}	Returns details of flight for the corresponding « id »
GET	/{crew_id}/flight_list	Returns the list of flights for the corresponding « crew_id »
GET	/{crew_id}/flight_list/{id}	Returns details of flight for the corresponding « id »
GET	/{crew_id}/flight_list/search/{criteria}	Returns the list of flights matching the search criteria and the « crew_id »

VIII. Developpment Team