



GL M1

Flight Planning System

Flight Planning System

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Presentation

Flight Planning System

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.

Users

1 **OCC** Operation 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



Business Objects



User :
Name
Password
e-mail adress
User Status(OCC/Crew)



Crew :
Crew Status (Pilot/Steward)



Plane :
Identifier
Airport ICAO (International
Civil Aviation Organization)



Airport :

ICAO (International Civil Aviation Organization)

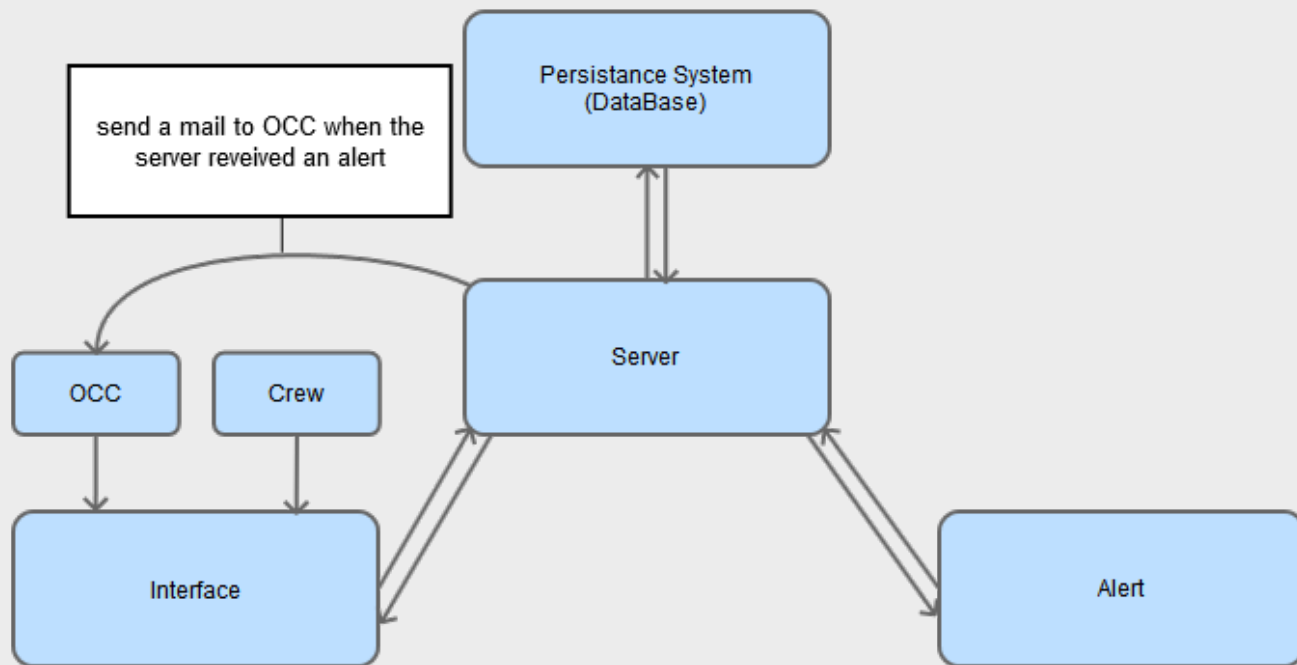


Flight :

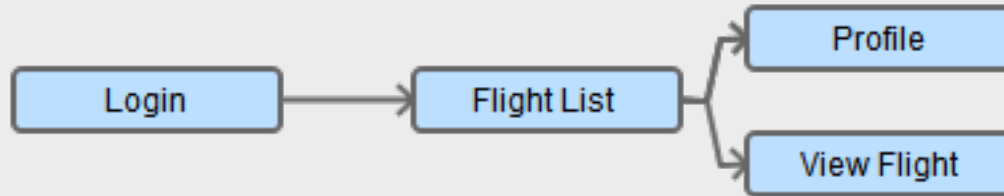
Commercial number
ATC code(Air Traffic Control)
Using Plane's code
Crew Members
Departure/Arrival Airport Code
Departure/Arrival time and date
OFP URL(Operational Flight Planning)
Weather maps URL
NOTAM (Notice To Air Man)

...

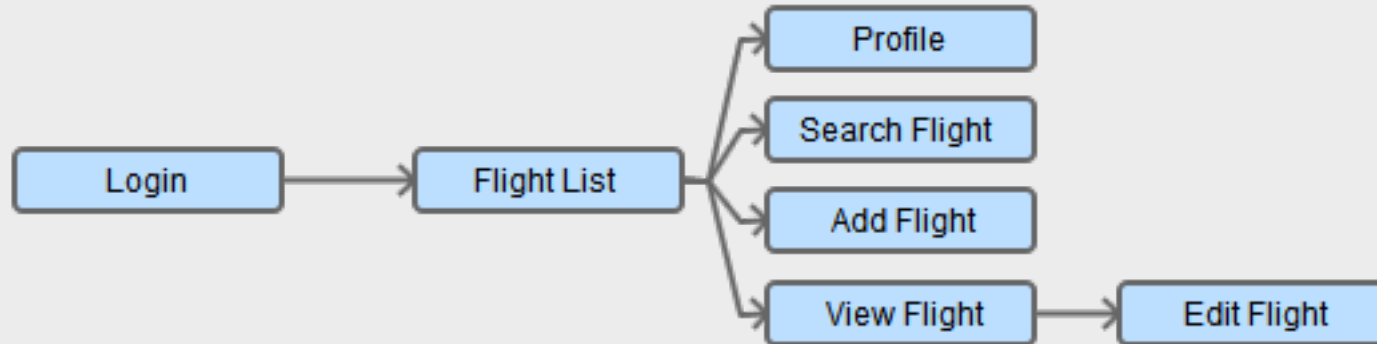
Diagram



Navigation Diagram (CREW)



Navigation Diagram (OCC)



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Mock-up: Login screen 1/2



Flight Planification System

Authentication

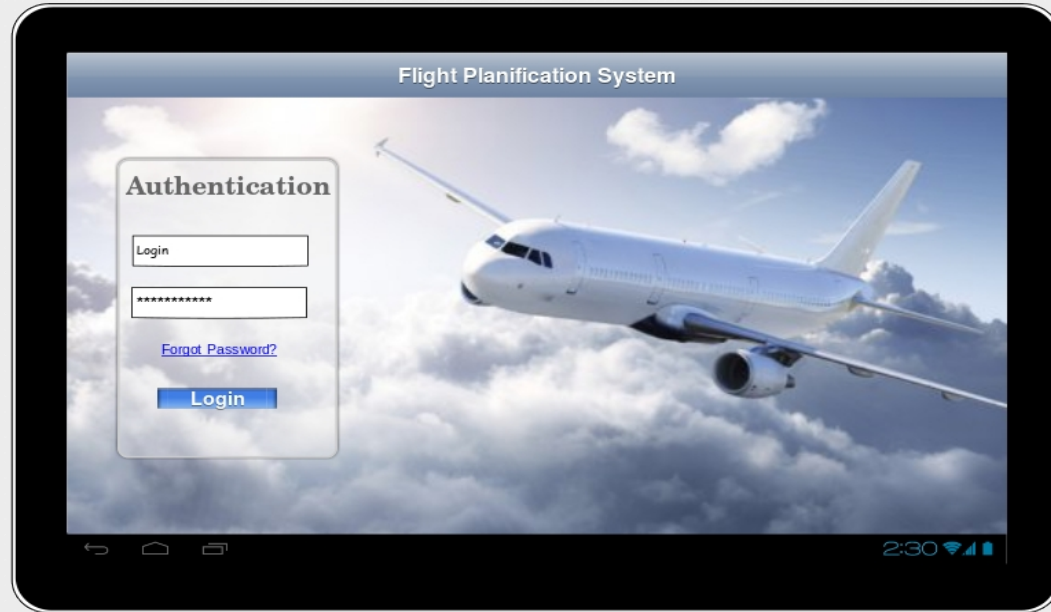
Login

[Forgot Password?](#)

Login

...

Mock-up: Login screen 2/2



Mock-up: Flight list screen (CCO)

Flight Planification System

Profile 

ALERT : xxxxxxxxxxxx

Flights List

Add Flight

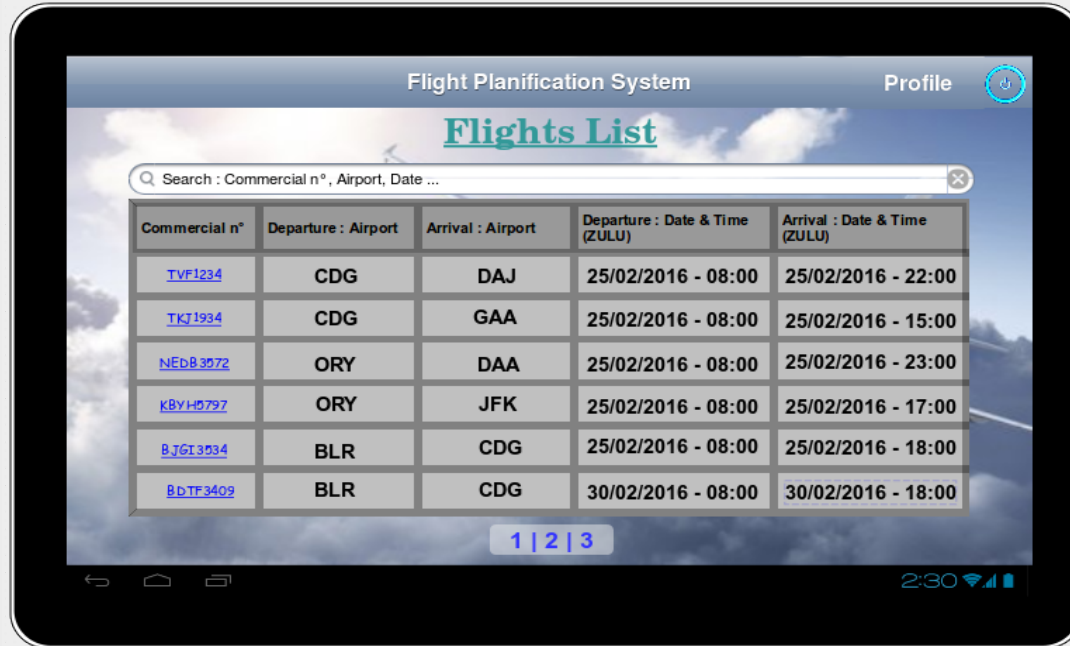
Search : Commercial n°, Airport, Date ...

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	TK71934	CDG	GAA	25/02/2016 - 08:00	25/02/2016 - 15:00	Delete
Edit	NED83572	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	BJGT3534	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	LTKI0976	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

...

Mock-up: Flight list (Crew)



Flight Planification System

Profile

Flights List

Search : Commercial n°, Airport, Date ...

Commercial n°	Departure : Airport	Arrival : Airport	Departure : Date & Time (ZULU)	Arrival : Date & Time (ZULU)
TVF1234	CDG	DAJ	25/02/2016 - 08:00	25/02/2016 - 22:00
TK71934	CDG	GAA	25/02/2016 - 08:00	25/02/2016 - 15:00
NEd83572	ORY	DAA	25/02/2016 - 08:00	25/02/2016 - 23:00
KBYH5797	ORY	JFK	25/02/2016 - 08:00	25/02/2016 - 17:00
BJGT3534	BLR	CDG	25/02/2016 - 08:00	25/02/2016 - 18:00
BDTF3409	BLR	CDG	30/02/2016 - 08:00	30/02/2016 - 18:00

1 | 2 | 3

2:30

Mock-up: Edit flight screen (CCO)

Flight Planification System

Profile

ALERT : xxxxxxxxxxxx

Edit Flight

Flight Information

Commercial n°	Departure : Airport	Arrival : Airport	Departure : Date & Time (ZULU)	Arrival : Date & Time (ZULU)
TVF1234	CDG	DAJ	25/02/2016 - 08:00	25/02/2016 - 22:00

ATC Number

Flight ID

Commercial leaflet

Weather Map

NOTAM

OFP

TO12C

ID

↓

↓

↓

↓

Crew

Job	Name
Pilot	Tekkal Karim
Co-Pilot	Petri Gustavo

Add Crew

Save Changes

Delete

Mock-up: Add Flight screen (CCO)

Flight Planification System

Profile

ALERT : xxxxxxxxxxxxxx

Add Flight

Import Excel File

Flight Information

Commercial Number*

ATC Number*

Departure Airport*

Arrival Airport*

Departure - Date & Time (ZULU) *

Arrival - Date & Time (ZULU) *

Flight ID*

Commercial leaflet

TVF1234

TO12C

CDG

DAJ

25/02/2016

08:00

25/02/2016

22:00

ID

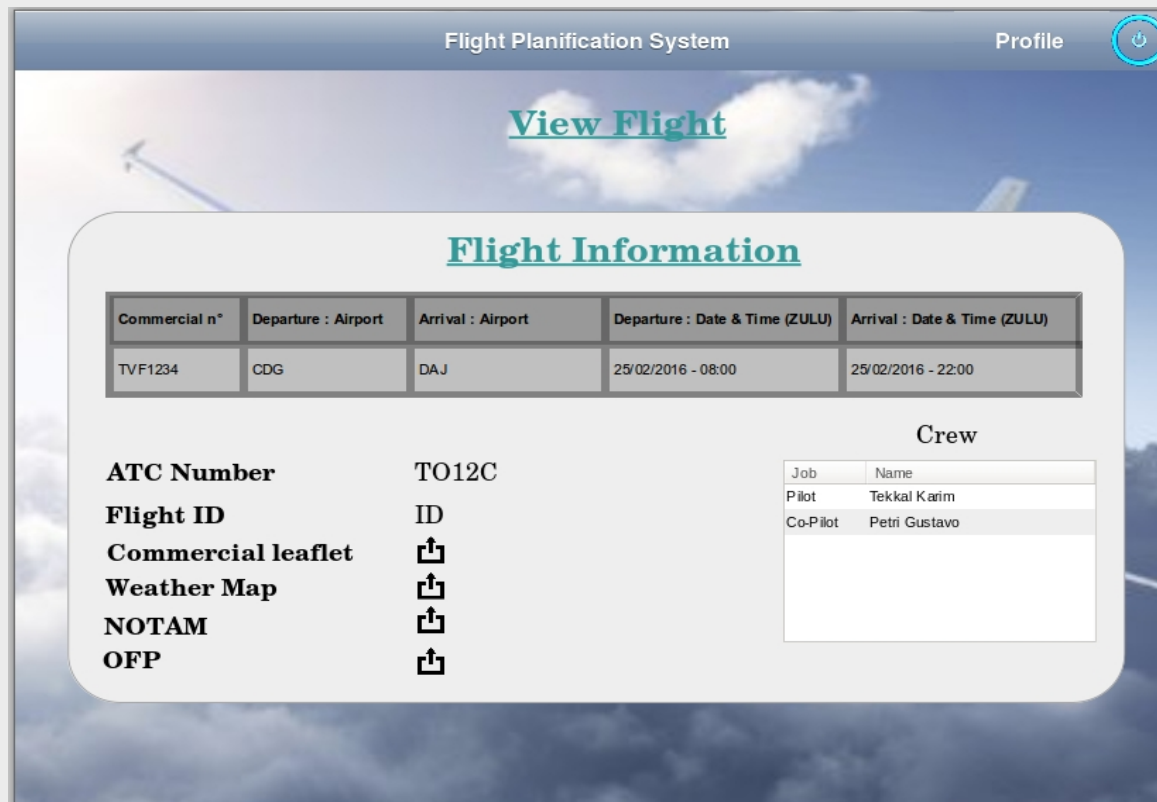
Add Flight

Crew

Job	Name	
Pilot	Tekkal Karim	✖
Co-Pilot	Petri Gustavo	✖

Add Crew

Mock-up: View flight screen



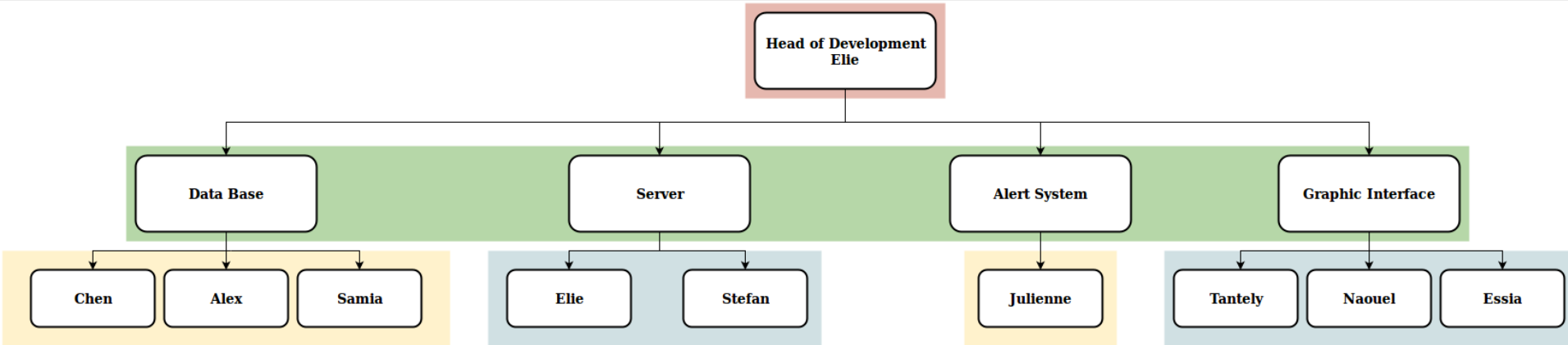
Webservices (1/2)

Method	URL	Behavior
GET	/login	Grants access if login is successful
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 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 »

Webservices (2/2)

Method	URL	Behavior
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 »

Development team





<https://github.com/canonici/GL-M1>