

# GL M1

Flight Planning System

# Flight Planning System

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- I. Presentation
- II. Users
- III. Business Objects
- IV. Diagram
- VI. Navigation Diagram
- VII. Mock-ups
- VIII. Webservices

# Presentation

## Flight Planning System

**T**he

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

**I**t

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

**T**he

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



Flight information :  
Commercial number  
ATC number(Air Traffic Control)  
Departure/Arrival Airport Code  
Departure/Arrival time and date  
OFP(Operational Flight Planning)



Plane :  
Identifier  
ICAO(International Civil Aviation Organization)  
Status



Airport :  
Identifier  
ICAO(International Civil Aviation Organization)

Weather Maps  
Crew  
Commercial leaflet  
NOTAM(notice to airmen)



...

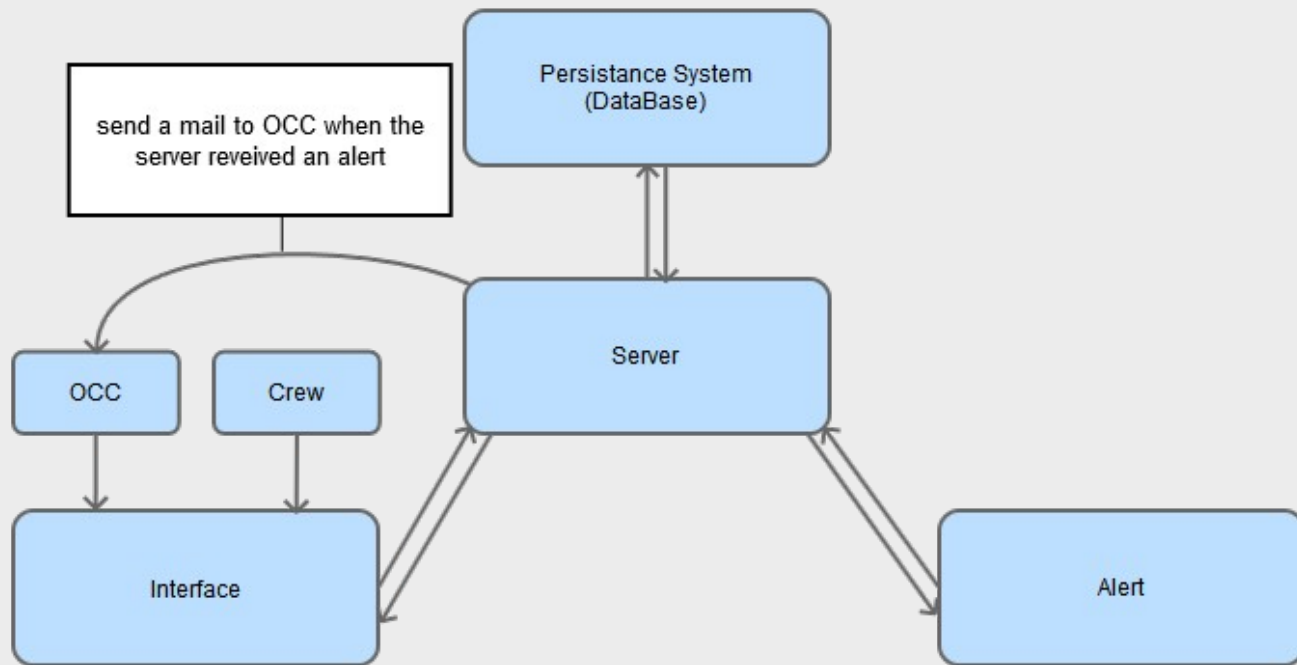


Crew :  
Name  
Status(Pilot/Steward)



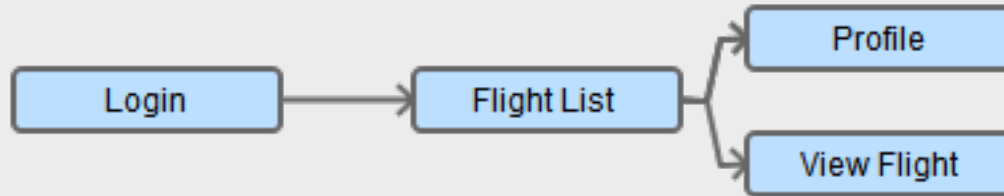
User :  
Mail  
Password  
Status(OCC/Crew)

# Diagram

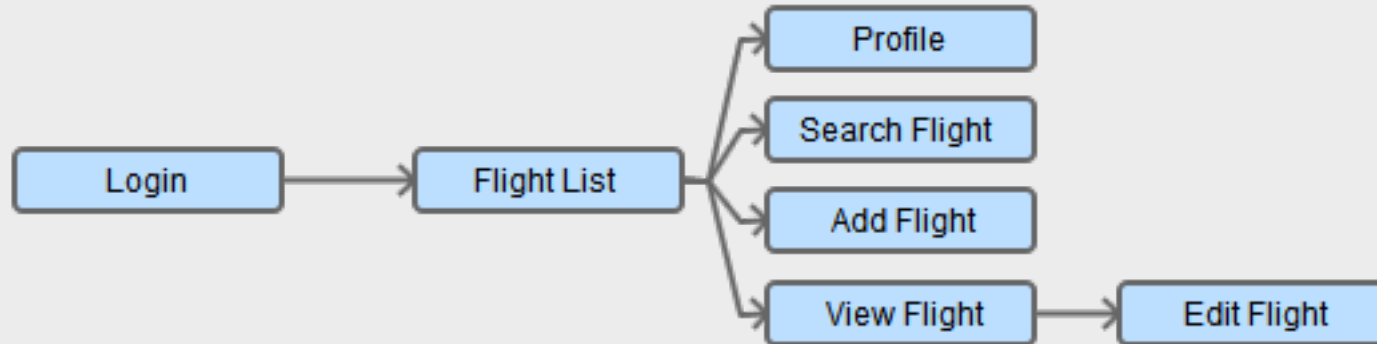




# Navigation Diagram (CREW)



# Navigation Diagram (OCC)



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## Mock-up: Login screen 1/2



Flight Planification System

**Authentication**

Login

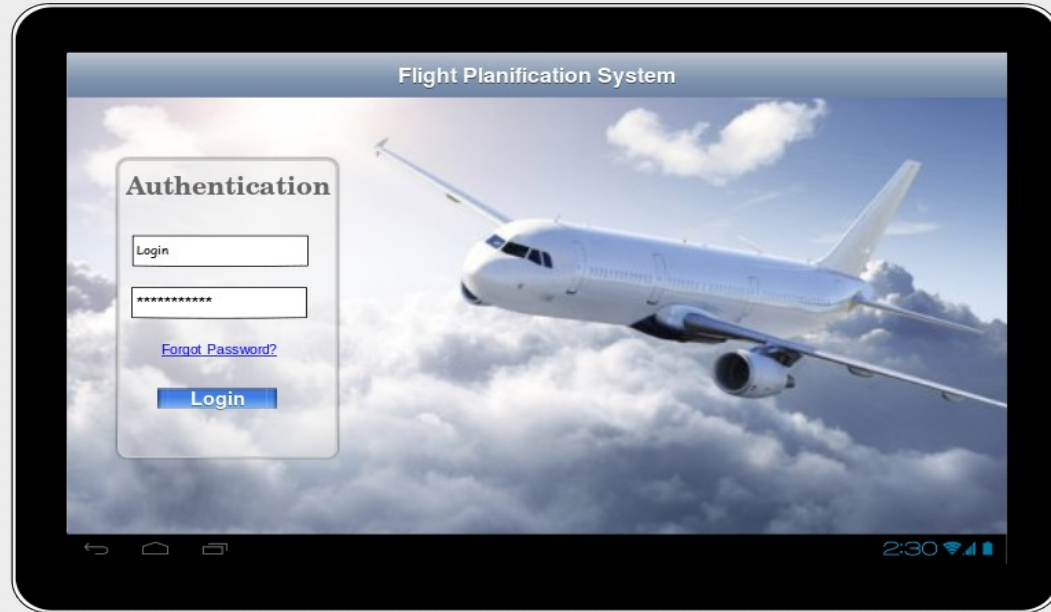
\*\*\*\*\*

[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

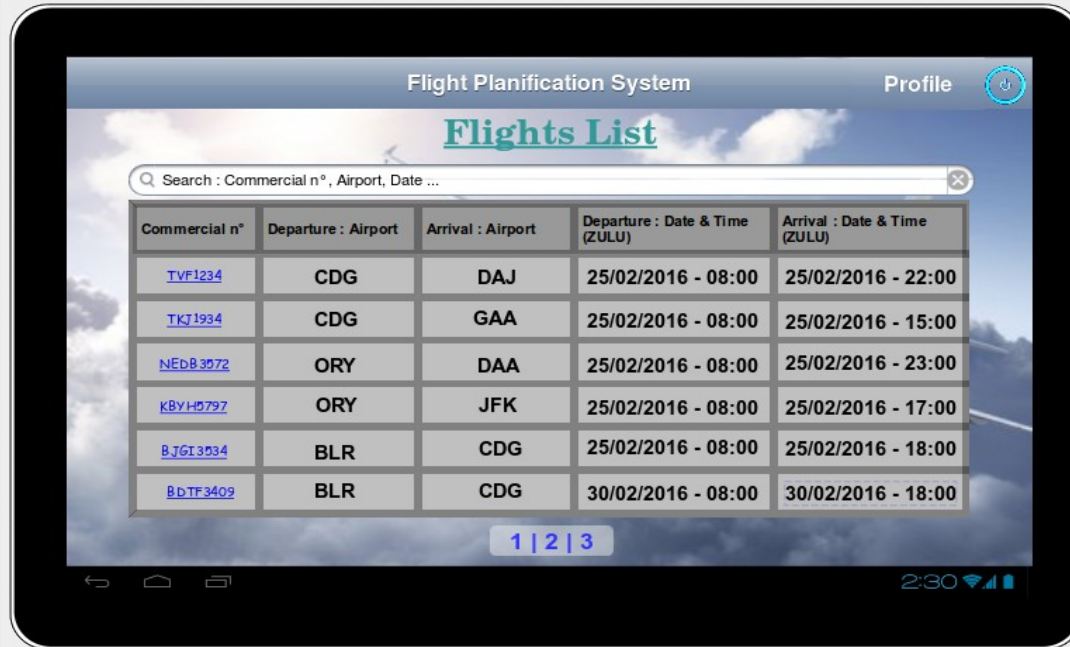
Search : Commercial n°, Airport, Date ...

Edit	Commercial n°	Departure : Airport	Arrival : Airport	Departure : Date & Time(ZULU)	Arrival : Date & Time(ZULU)	Delete
<a href="#">Edit</a>	<a href="#">TVF1234</a>	CDG	DAJ	25/02/2016 - 08:00	25/02/2016 - 22:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">TK71934</a>	CDG	GAA	25/02/2016 - 08:00	25/02/2016 - 15:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">NEB83572</a>	ORY	DAA	25/02/2016 - 08:00	25/02/2016 - 23:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">KBYH5797</a>	ORY	JFK	25/02/2016 - 08:00	25/02/2016 - 17:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">BJGI3534</a>	BLR	CDG	25/02/2016 - 08:00	25/02/2016 - 18:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">BDTF3409</a>	BLR	CDG	30/02/2016 - 08:00	30/02/2016 - 18:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">LTKI0976</a>	JFK	CDG	25/04/2016 - 08:00	25/04/2016 - 17:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">BDNR3577</a>	JFK	CDG	03/06/2016 - 08:00	03/06/2016 - 17:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">MPKU5724</a>	DAA	CDG	25/02/2016 - 08:00	25/02/2016 - 23:00	<a href="#">Delete</a>
<a href="#">Edit</a>	<a href="#">GYTY8907</a>	DAA	CDG	15/03/2016 - 08:00	15/03/2016 - 23:00	<a href="#">Delete</a>

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)
<a href="#">TVF1234</a>	CDG	DAJ	25/02/2016 - 08:00	25/02/2016 - 22:00
<a href="#">TKJ1934</a>	CDG	GAA	25/02/2016 - 08:00	25/02/2016 - 15:00
<a href="#">NEd83572</a>	ORY	DAA	25/02/2016 - 08:00	25/02/2016 - 23:00
<a href="#">KBY1H5797</a>	ORY	JFK	25/02/2016 - 08:00	25/02/2016 - 17:00
<a href="#">BJGT3534</a>	BLR	CDG	25/02/2016 - 08:00	25/02/2016 - 18:00
<a href="#">BDTF3409</a>	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

Commercial Number\*

TVF1234

ATC Number\*

TO12C

Departure Airport\*

CDG

Arrival Airport\*

DAJ

Departure - Date & Time (ZULU) \*

25/02/201608:00

Arrival - Date & Time (ZULU) \*

25/02/201622:00

Flight ID\*

ID

Commercial leaflet

Add Flight

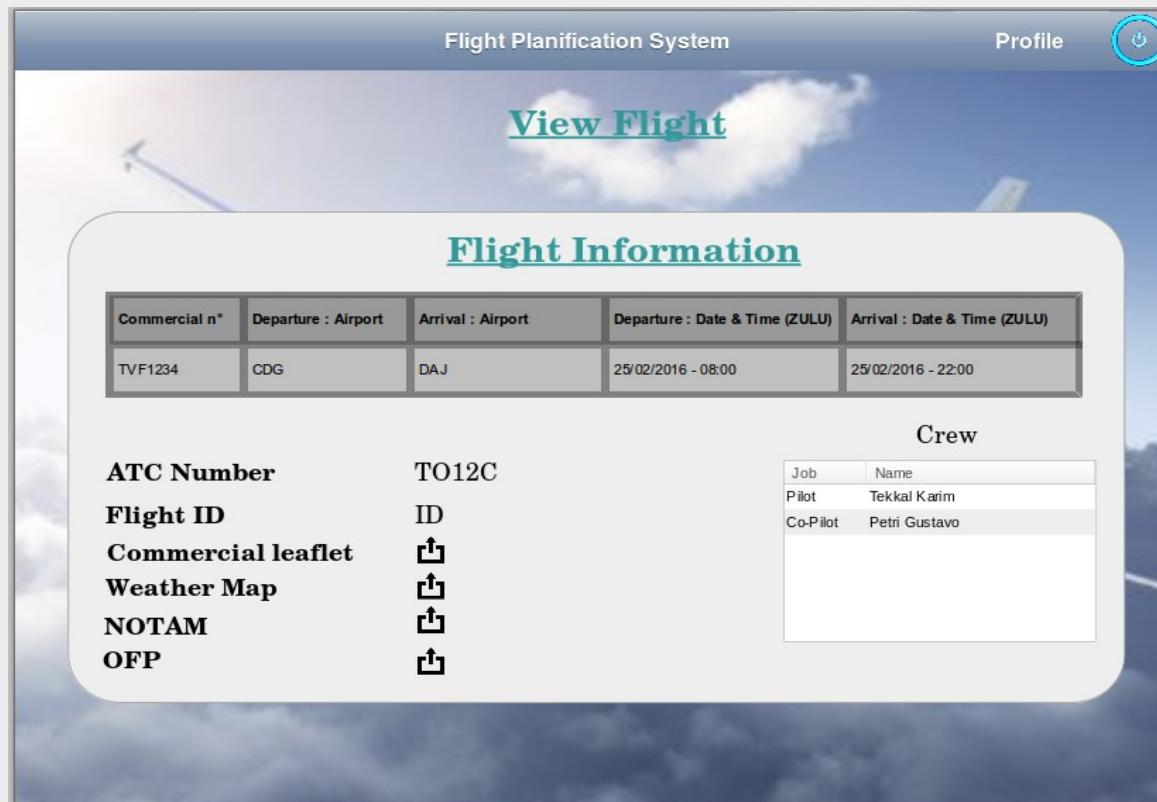
Crew

Job	Name	
Pilot	Tekkal Karim	
Co-Pilot	Petri Gustavo	

Add Crew



## Mock-up: View flight screen



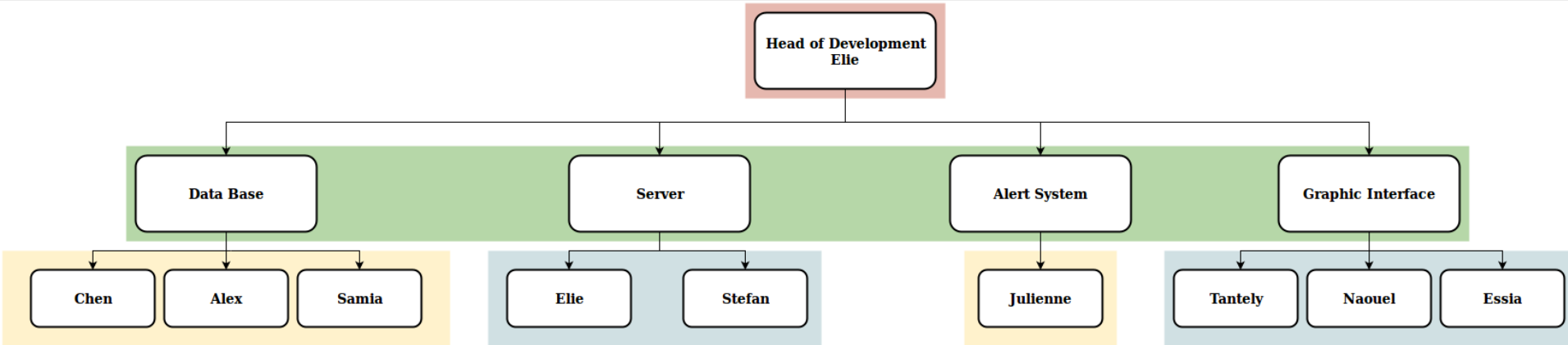
## Webservices (1/2)

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	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>