

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



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)



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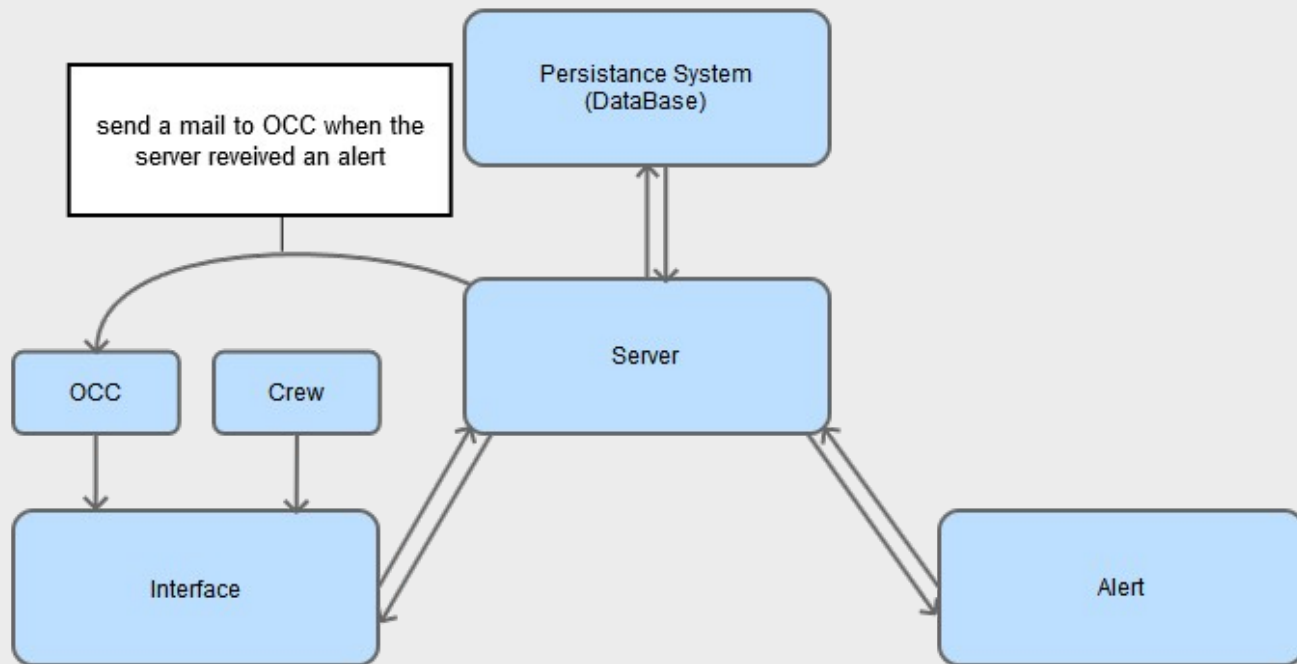
Crew :
Name
Status(Pilot/Steward)



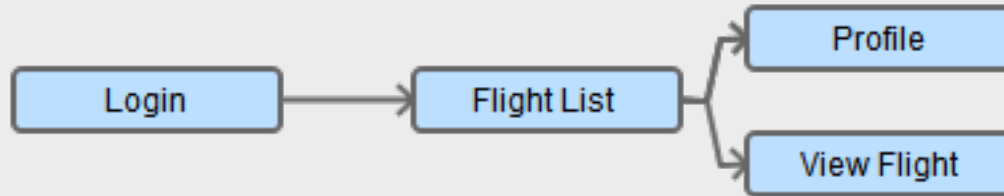
User :
Mail
Password
Status(OCC/Crew)

...

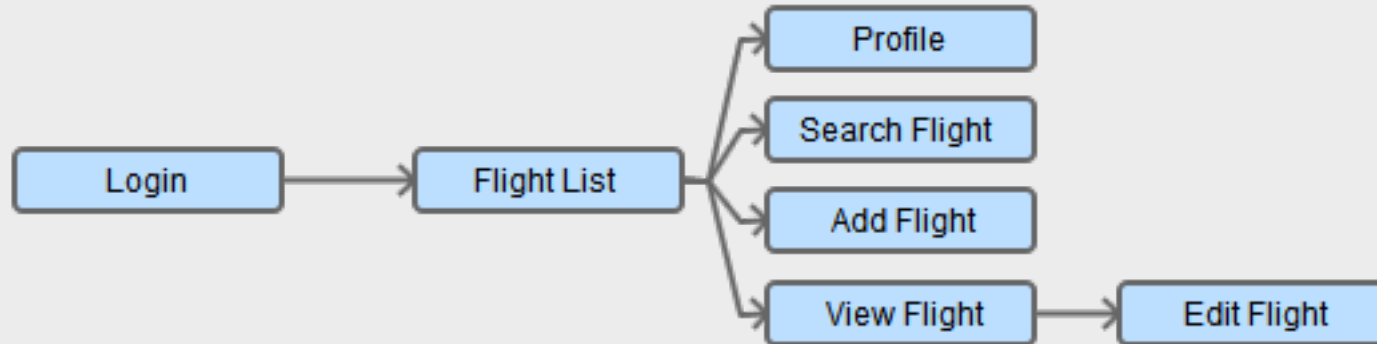
Diagram



Navigation Diagram (CREW)



Navigation Diagram (OCC)



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Mock-up: Login screen 1/2



Flight Planification System

Authentication

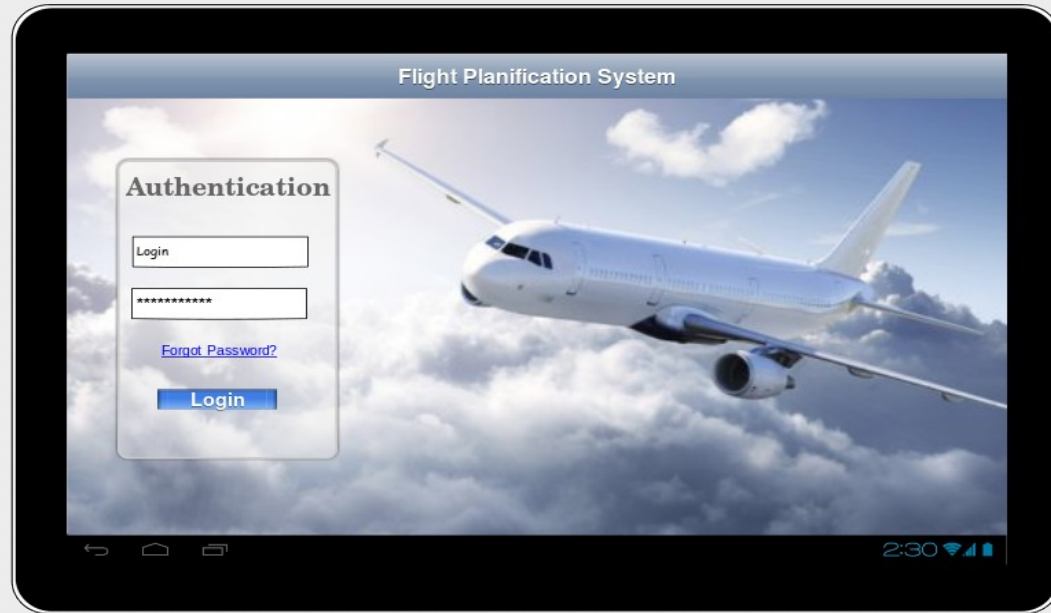
Login

[Forgot Password?](#)

Login

...

Mock-up: Login screen 2/2



Mock-up: Flight list screen (CCO)

Flight Planification System

Profile

ALERT : xxxxxxxxxxxxxx

Flights List

Add Flight

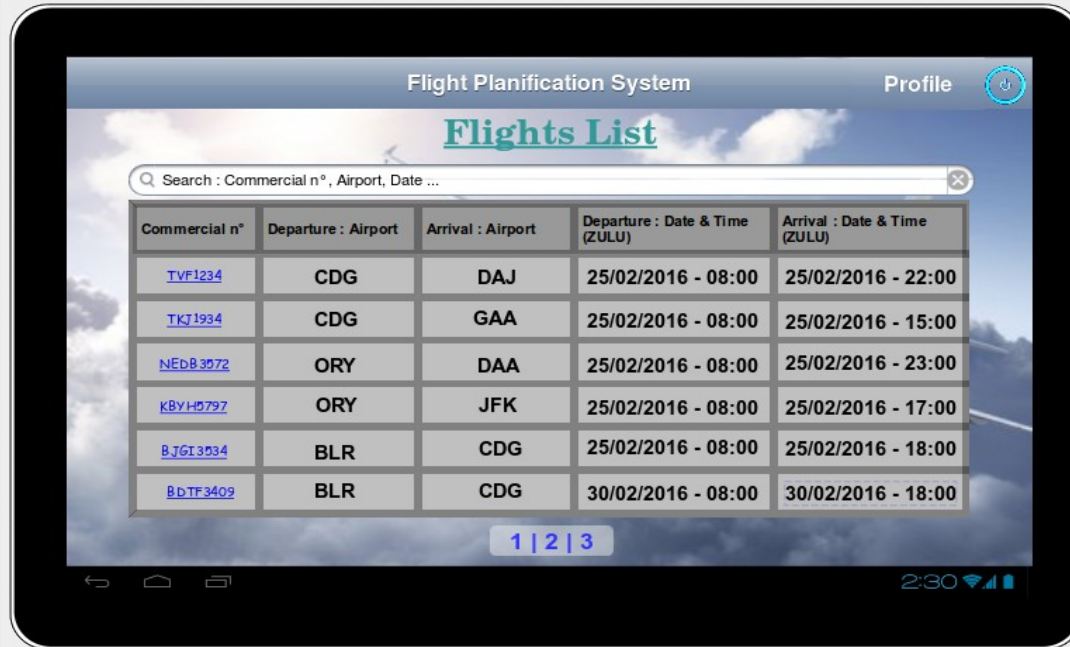
Search : Commercial n°, Airport, Date ...

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	BTGI3534	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

...

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
TKJ1934	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
KBY1H5797	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

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

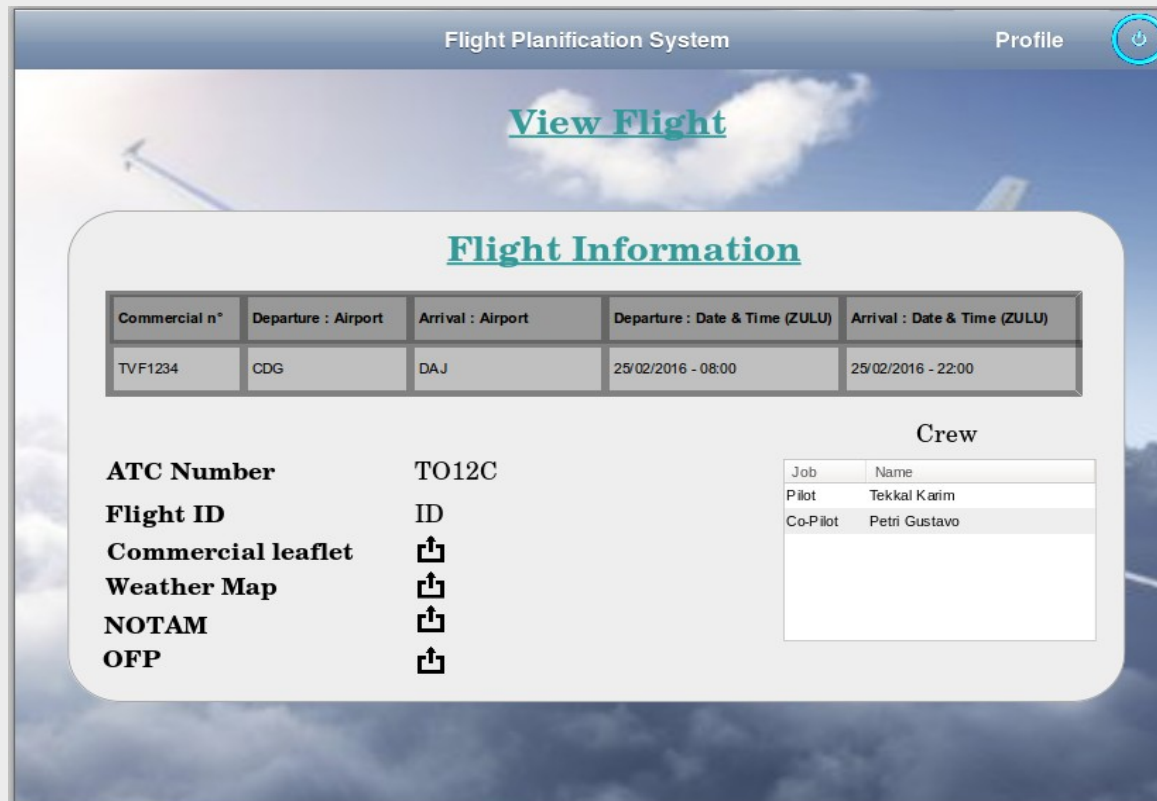
Add Flight

Crew

Job	Name
Pilot	Tekkal Karim
Co-Pilot	Petri Gustavo

Add Crew

Mock-up: View flight screen



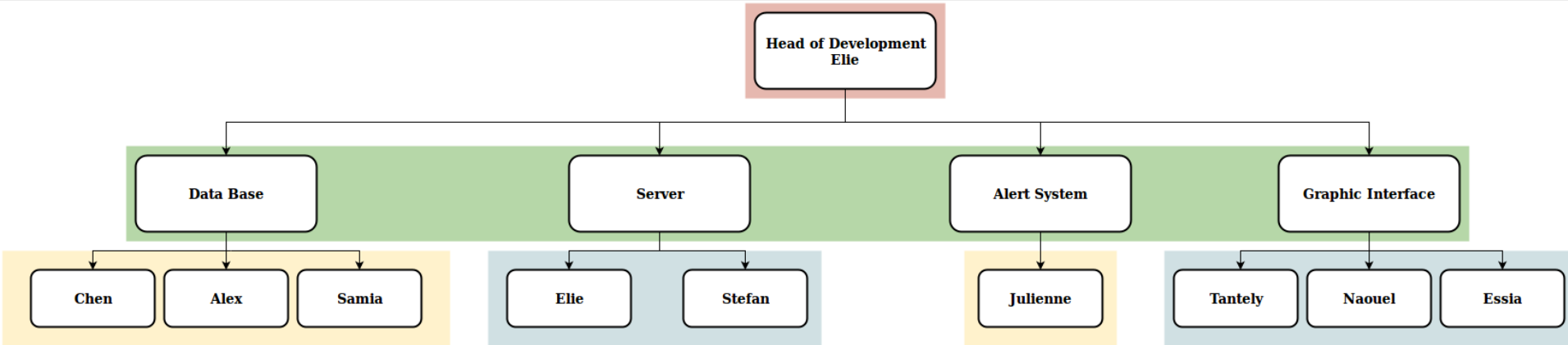
Webservices (1/2)

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 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>