Group one

Fps “Flight Planning System”

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Introduction

In this following presentation, we are going to show you the procedure we attend to answer to your different questions during the course “ Génie logiciel avancée “.

This presentation shows the different steps that we followed to realize the project named “ Flight Planning System “ from the beginning to the end.

It will be also the support for our last presentation with you.

Plan

- I- First lesson
- II- Second lesson
- III- Third lessen

I. First lesson

General presentation :

Flight Planning System is a software that :

- Index all the coming flight of the company
- Matches crews and planes
- And primary used by the OCC (Operations Control Center)

Firstly we can mention some technical features :

A server implementation :

- Database containing the list of flights and users (with their respective rights)
- Email warning system for OCC

A web responsive interface (respecting REST) with personalized display for OCC.

I. First lesson

Users of the system :

Each members of the occ is specializes in one fields of expertise :

- Flight operations control crew
- Flight dispatcher :
  Manager, captain on the ground, meteorologist, aircraft technicien, air traffic control dispatcher.
- Flight dispatch support specialist
  paperwork for a flight plan "overflight".
- Ground operations coordinator
  responsible of passengers.
- Flight operations coordinator
  handles with gas, pilot, hangar, fuel status, incoming, connecting, awaiting permits, updating schedule.

I. First lesson

Users of the system :

Operations duty officer

the head problem solver.

Crew dispatcher

handle with the crew members.

Flight dispatcher manager

manage the team

Acess level:

OCC

Who can changes the crews members & departure and arrival time also departure and arrival airport.

Crew members

Who can see their next flights without changing the informations, they can also contact the OCC by email.

I. First lesson

The business subject :

In this picture, we have all business subjects for our system with their definitions

FLIGHT
Departure Date Departure Time Arrival Date Arrival Time Commercial number ATC number Airport Departure Airport Arrival Airport Departure Companie

AIRPORT
Country City

ALERT SYSTEM
Recipient message

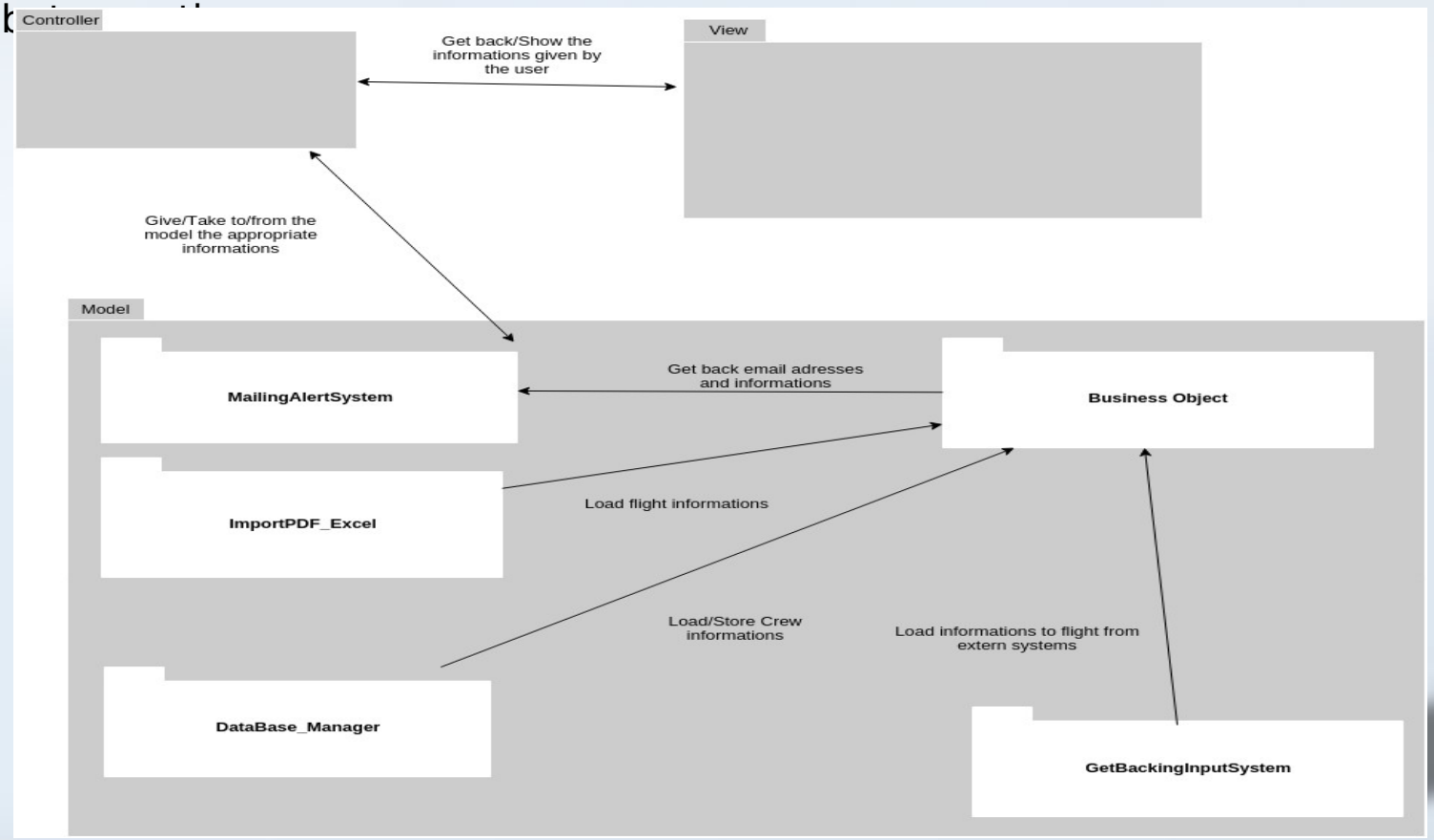
USER
Name Age id_User Status

CREW
Persons Flight

I. First lesson

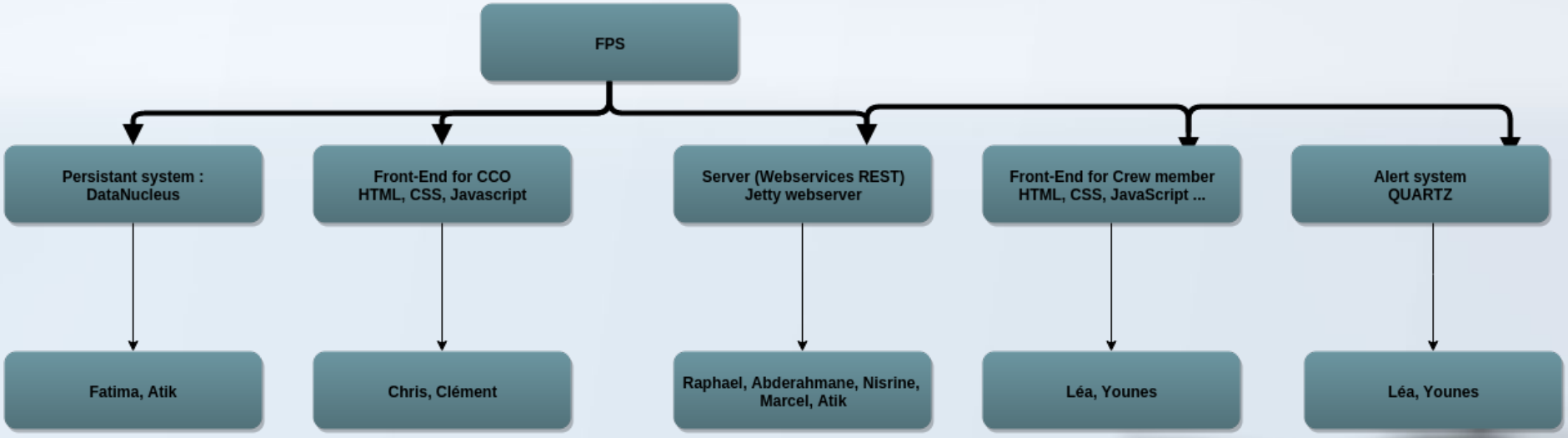
The MVC model :

This is the MVC model for our system, it shows the various subsystem and relation



II. Second lesson

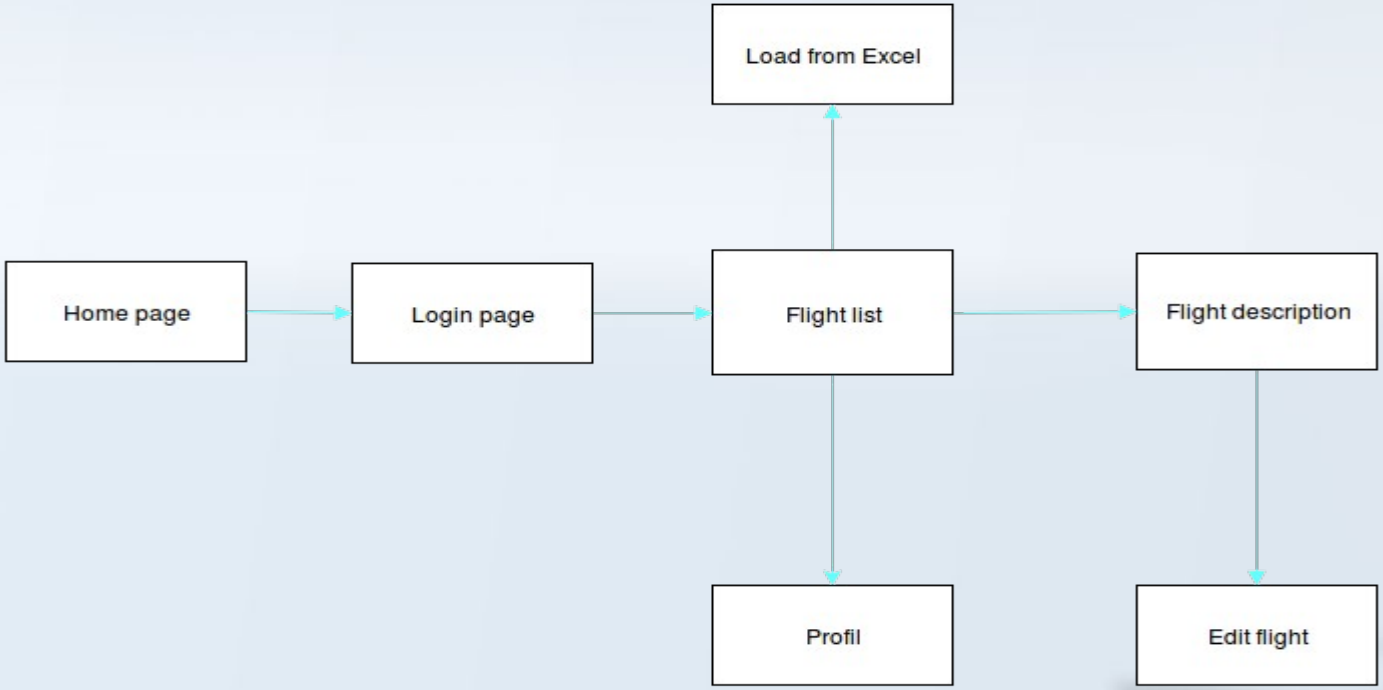
Organization chart encompassing the four components of the system :



II. Second lesson

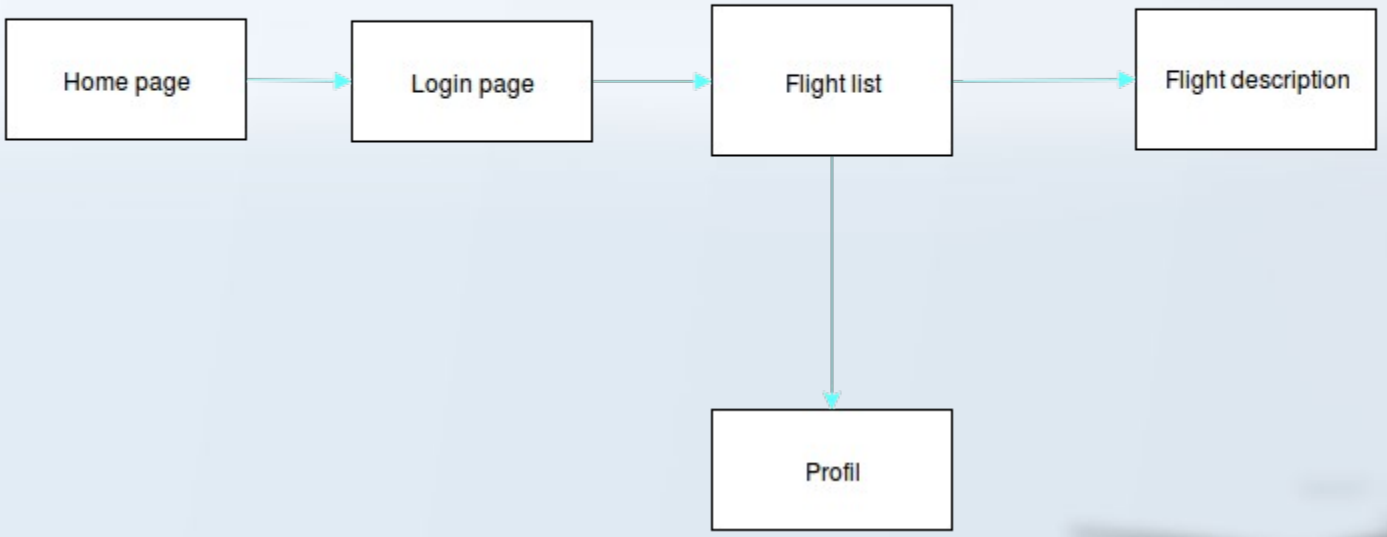
The navigation scheme :

We have decided to use two navigation scheme as requested.
for OCC:



II. Second lesson

The navigation scheme :
for the crew:



II. Second lesson

A prototype of the web-application :

https://invis.io/VW60KMLEY

II. Second lesson

Web-services:
from our mock-ups, we have defined our necessary web services for loading data.
This is the web-services for our home page.

Type	url	Behavior
GET	/index	Return list of all the plane
GET	/index / {id}	Return plane with ID in the CREW
GET	/index / {day1} {day2}	Return list of plane between the two day
GET	/index / {day1} {day2} {status}	Return list of plane with the status ask (late , delay ..)
GET	/index / {day1} {day2} {aircraft}	Return list of plane with the number of plane ask
GET	/index / {day1} {day2} {airport Depart}	Return list of plane with the airport departure ask
GET	/index / {day1} {day2} {airport Arrival }	Return list of plane with the airport arrival ask
GET	/index / {day1} {day2} {airport Depart} {airport Arrival }	Return list of plane with the airport departure and arrival ask
GET		
PUT	/index	Add a plane
PUT	/member	Add a member

II. Second lesson

Web-services:
This is the web-services for our members page.

GET	/member /{id}	Return list of all details of the member
POST	/member / {id}	Modify details of member for the corresponding ID
DELETE	/member / {id}	DELETE a member

II. Second lesson

Web-services:

This is the web-services for our flight page.

GET	/flight /{id}	Return list of all details of the flight
POST	/flight / {id}	Modify details of flight for the corresponding ID
DELETE	/flight / {id}	DELETE a flight

III. Third lesson

Join us on GitHub

https://github.com/Medatik/Preplane

III. Third lesson