# Flight Manager

Group #1

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### System Overview

The system to be developed is a flight management system in response to airline companies need to organize and planify upcoming flights.

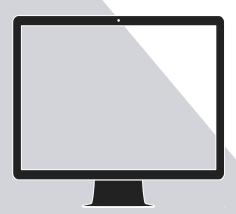
The main purpose of the system is to establish a clear and detailed calendar defining each upcoming flight in a unique and usefull way.

Flight Manager will be used by both CCOs and crew members through a website and mobile application.

#### Users

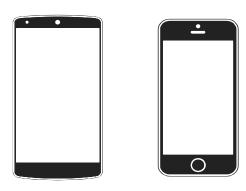
#### **CCO Group**

As for the CCO group, advanced privileges and flight modification access are granted through a website version of the system.



#### **Crew Members**

On the other hand, crew members only have a reading access in order to stay informed and accomplish their check-in in the best way.



# **Business Objects**

In addition to some supplementary entities such as OFP, meteorology, NOTAM and advertising, our system has 3 major business objects detailed further more, which are flights, planes and employees.

### **Business Objects**

#### **Plane**

- model
- ATC\_number
- commercial\_number

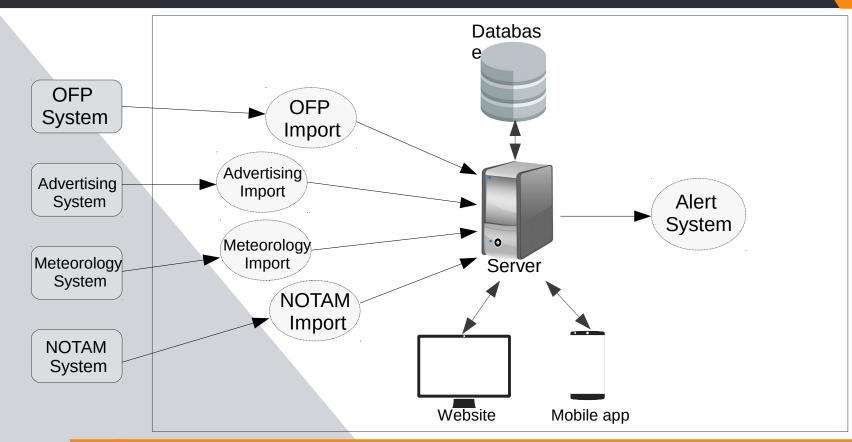
#### **Flight**

- ATC\_number
- departure\_airport
- arrival airport
- departure time
- arrival\_time
- OFP
- NOTAM list
- ad\_list
- meteo\_card
- crew\_list

#### **Employee**

- employee\_id
- first name
- last\_name
- job\_title

### Technical Diagram

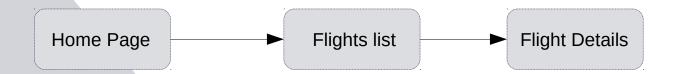


# Mobile App Outline

The mobile version of Flight Manager is destined to crew members as mentionned before.

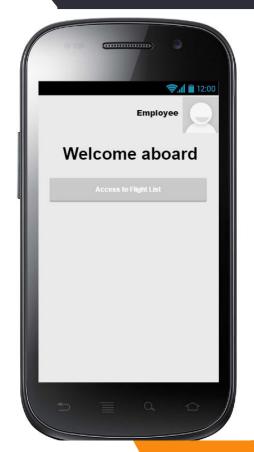
It will provide appropriate information display accordingly to each member's job title.

### Mobile App Navigation Schema



The amount of information displayed in both the flights list and each flight details will be adapted to the job title of the person authentified in the current session.

### Mobile App Mock-ups







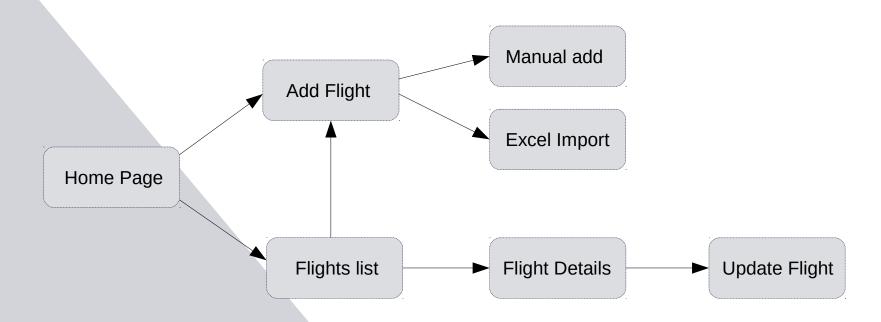
#### Webviews

Type	URL	Behavior
GET	/flight	Return the list of flight
GET	10 -	Return details of flight for the corresponding «ATC_number»

#### Website Outline

The website version of Flight Manager Is intended for CCO members as it will provide data modification interfaces.

#### Website Navigation Schema

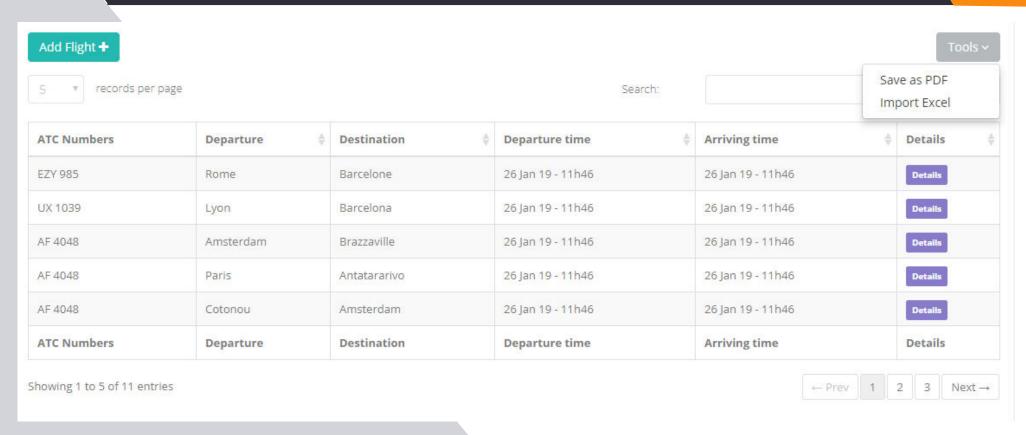


An authentification interface will be developed futher more before granting access to the home page as the update privilege is a serious matter.

### Website Mock-ups : Home page

Home Page				
	CCO's Name			
	Add flight(s)		Flight's list	

# Website Mock-ups: Flights list



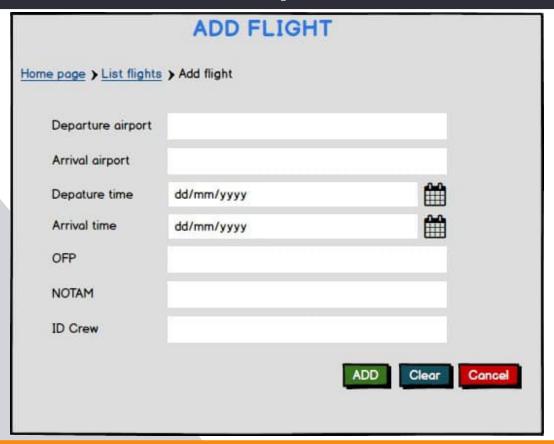
### Website Mock-ups: Add Flight

Add Flight	t(s)				
		CCO's name			
		Add manually		Import from EXCEL file	

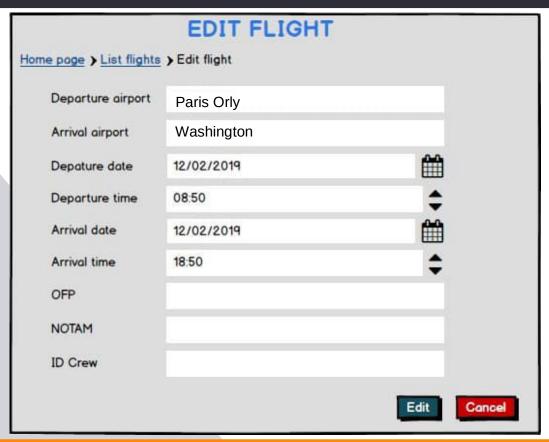
## Website Mock-ups : Flight Details



#### Website Mock-ups: Add Form



### Website Mock-ups: Update Form



#### Webviews

Туре	URL	Behavior
GET	/flight	Return the list of flight
GET	/flight/{ATC_number}	Return details of flight for the corresponding «ATC_number»
PUT	/flight	Add flight
POST	/flight/{ATC_number}	Update flight for the corresponding «ATC_number»

# Workspace Structure

# Backlog

Function	Description	Priority	Workload
	A clear display of all the upcoming fights with a minimum of details ordered ascendently by the date of flight.		
Flights list	The list will also allow visualizing the details of a selected flight.	5	3
Details of a specific flight	A display of all the flight's details with a link to the update form if necessary.	5	3
	A blank form to fill with the necessary information.		1
	Some details might not be filled while the prominent ones are essential.		<u>'</u>
Add flight to database	The form will also allow import interfaces for the NOTAM and OFP lists.	4	4
Update a flight record	An editable pre-filled form with the old information.	4	4
Excel Import	An alternative method to manually adding several flights at a time using an excel file.	3	1
-	A mail notification will be sent to the CCO members if a flight isn't correctly filled a week before departure.		
Alert System Implementation	A second reminder will be sent 12hours before departure if the OFP isn't mentionned yet.	2	1
-			

### Git Repository

Link to our git repository: <a href="https://github.com/andressito/ProjetGLA2019">https://github.com/andressito/ProjetGLA2019</a>

As for the persistence layer, our classes are the followings:

- ActionFlight.java
- Ads.java
- DAOException.java
- Employee.java
- EmployeeDao.java
- Flight.java
- FlightDao.java
- Interface\_plane.java

All the implemented classes are in the link above. Same goes for the stub.