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.
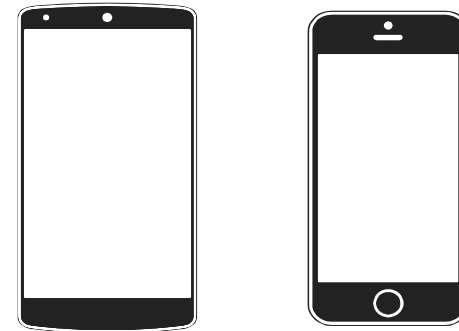
Users

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	**Flight**	**Employee**
- model	- ATC_number	- employee_id
- ATC_number	- departure_airport	- first_name
- commercial_number	- arrival_airport	- last_name
	- departure_time	- job_title
	- arrival_time	
	- OFP	
	- NOTAM_list	
	- ad_list	
	- meteo_card	
	- crew_list	

Technical Diagram
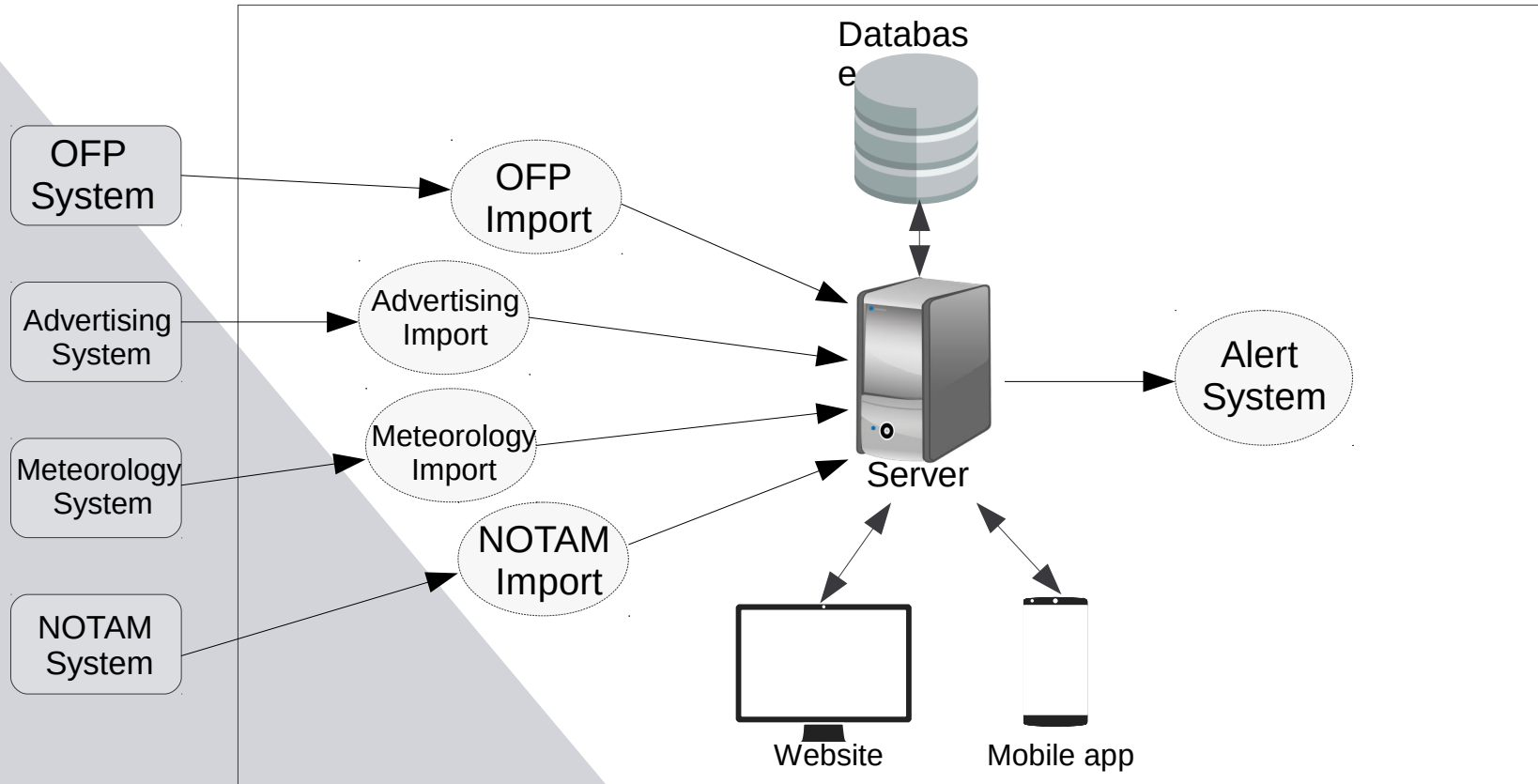
Mobile App Outline

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

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┌──────────────┐        ┌──────────────┐        ┌──────────────┐
│  Home Page   │───────▶│ Flights list │───────▶│Flight Details│
└──────────────┘        └──────────────┘        └──────────────┘
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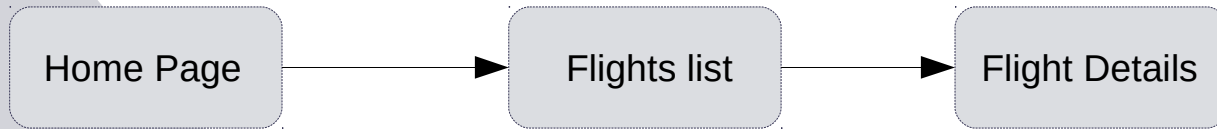
The amount of information displayed in both the flights list and each flight details will be adapted to the job title of the person authentified in the current session.

Mobile App Mock-ups
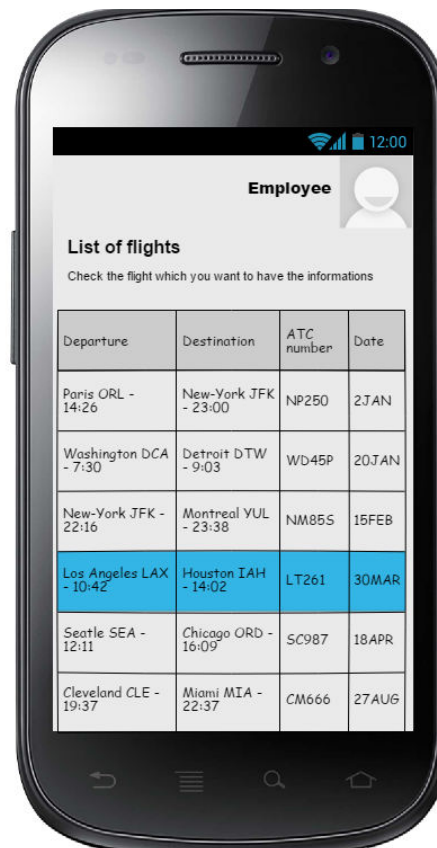
Webviews

Type	URL	Behavior
GET	/flight	Return the list of flight
GET	*/flight*/{ATC_number}	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
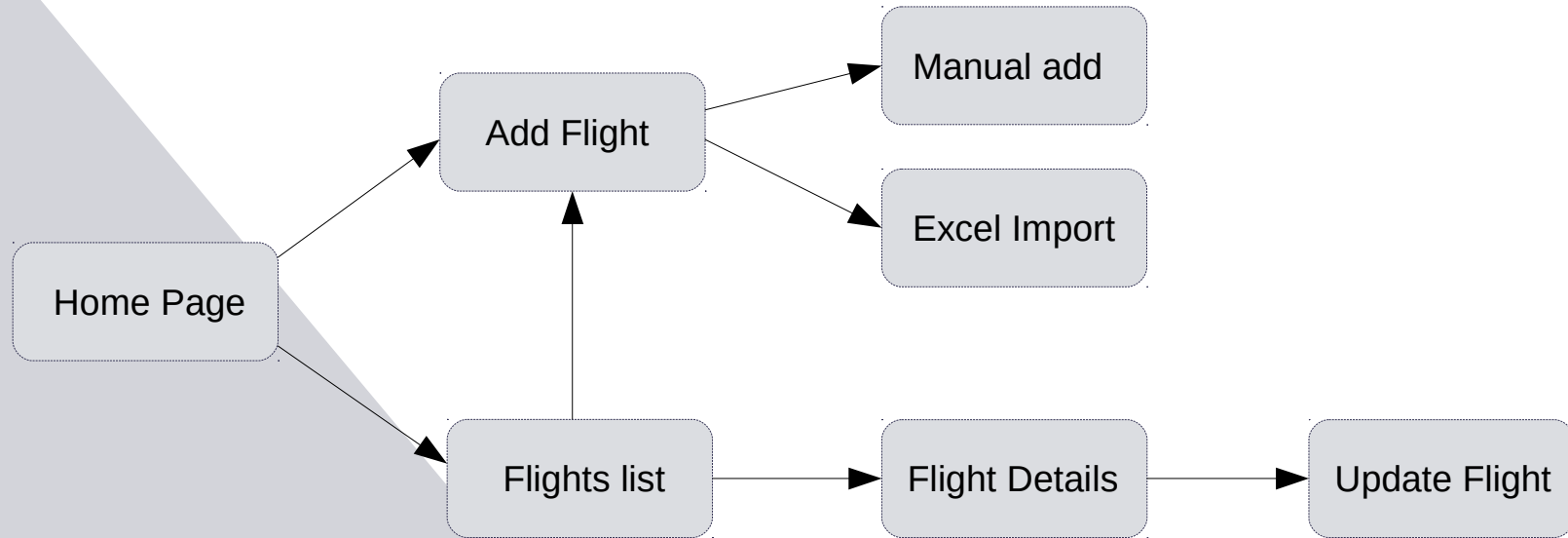
An authentification interface will be developped futher more before granting access to the home page as the update privilege is a serious matter.

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(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

Type	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»