# Aircraft Maintenance System

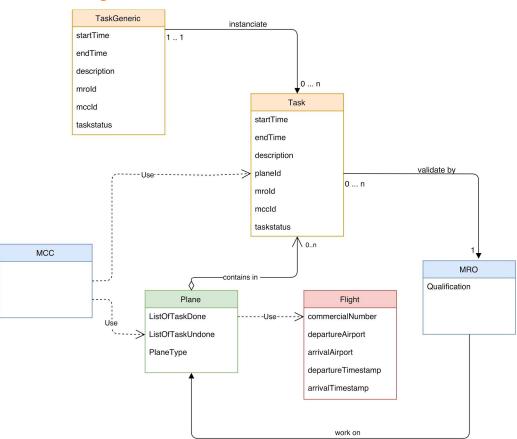
## 1 - System Definition

- Aircraft maintenance planning software.
- Sets of tasks to do in the coming weeks.
- Association of human and technical resources for all aircraft maintenances.

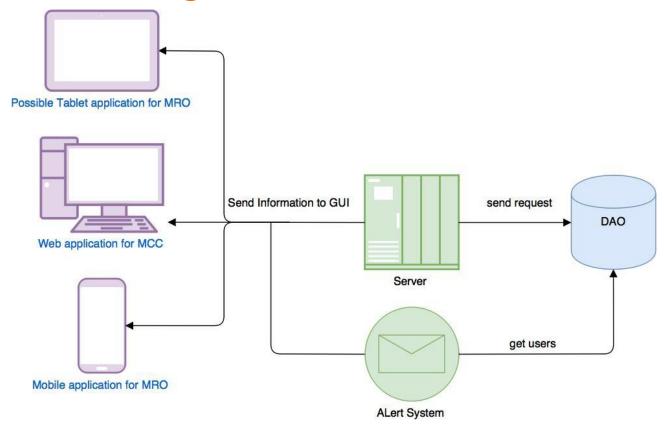
### 2 - Users

- Maintenance Control Center (MCC): distribute tasks to some MRO.
- Maintenance Repair and Overhaul (MRO): consult planned tasks.

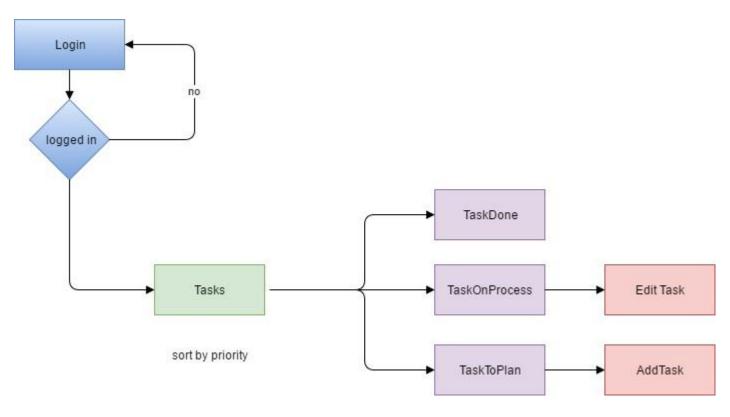
# **3 - Business Objects**



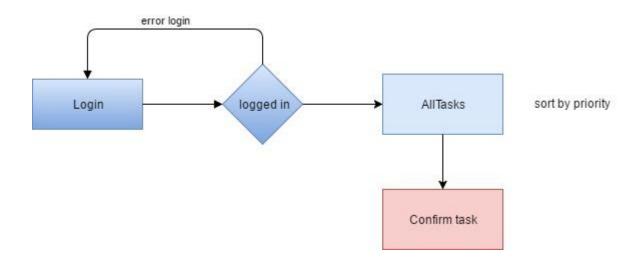
# 4 - Technical Diagram



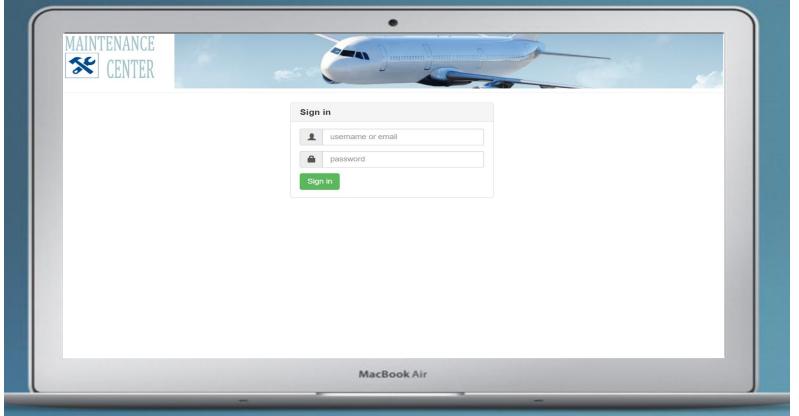
# 5 - Navigation Diagram : MCC Interface



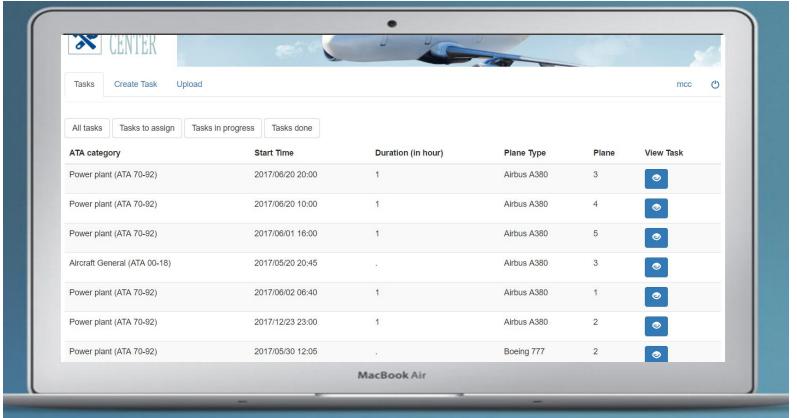
## 5 - Navigation Diagram : MRO Interface



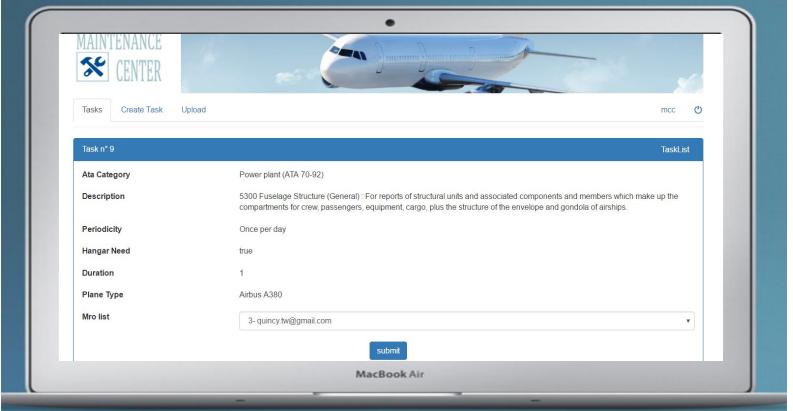
6 - Mockups : MCC/MRO Login Page



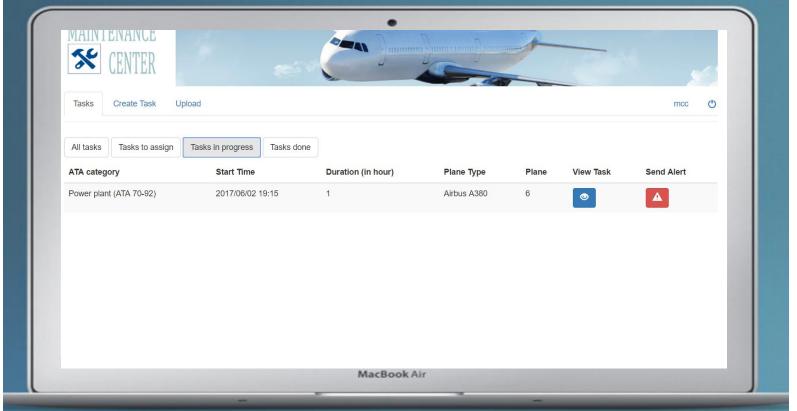
## 6 - Mockups : MCC Task to assign



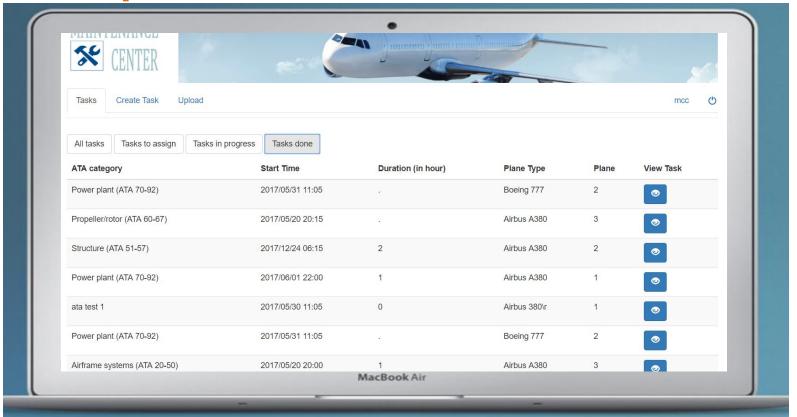
6 - Mockups : MCC View task to assign



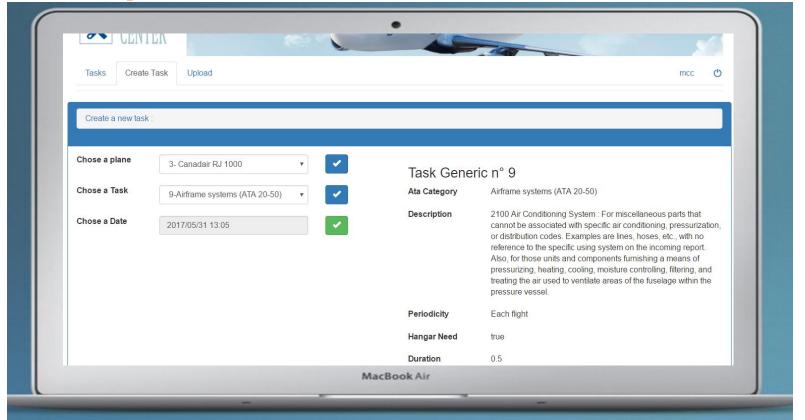
6 - Mockups : MCC/MRO Task in progress



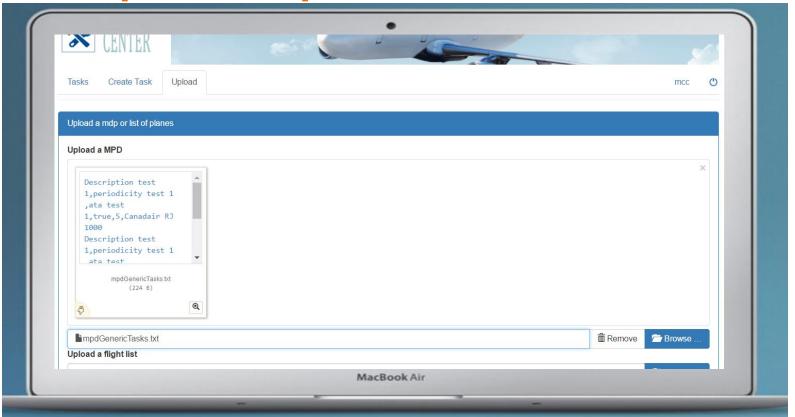
### 6 - Mockups : MCC/MRO Task Done



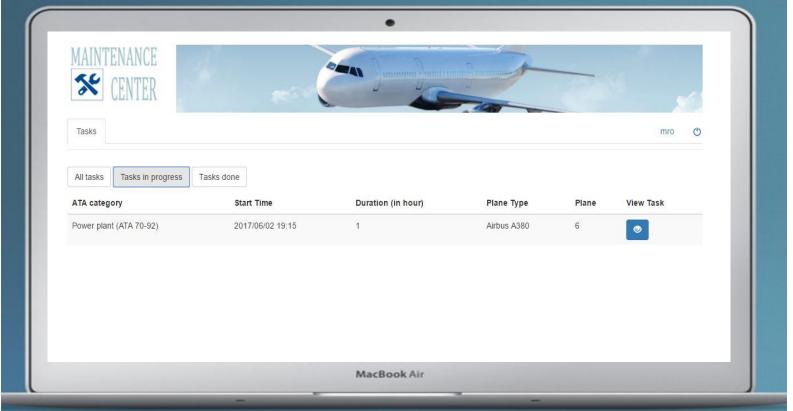
## 6 - Mockups : MCC Create Task



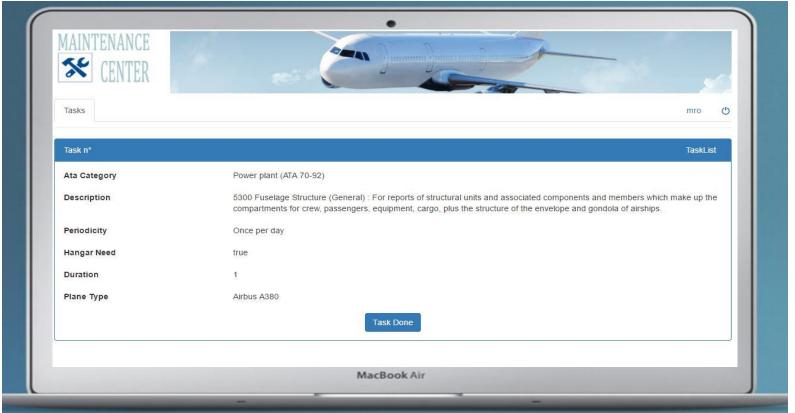
# 6 - Mockups : MCC Upload



6 - Mockups Mobile: MRO Tasks In Progress



6 - Mockups Mobile: MRO Task In Progress View



### 7 - Web Services

| Туре | URL                         | Behavior                               |
|------|-----------------------------|--|
| GET  | /task/mro/{user_id}         | Returns a list of tasks by mro's role  |
| GET  | /task/all                   | Returns all the task                   |
| GET  | /{task_id}                  | Returns all the properties of a task   |
| POST | /task/add/                  | Add one new task                       |
| GET  | /task/genericByPlane/{type} | return a list of generic task by plane |
| GET  | /task/mro/{id}              | return a list of Task by mro id        |
| GET  | /task/mro/{mrold}/          | attribute mro to task                  |
| POST | /task/send/{id}             | send alert to mro                      |
| POST | /task/done/{id}             | set a task to done                     |

### 7 - Web Services

| Туре | URL                           | Behavior                      |
|------|-------------------------------|-------------------------------|
| POST | /task/mpd/{mpd}               | upload a list of generic task |
| GET  | /plane/all                    | Return a list of planes       |
| GET  | /mro/all                      | return a list of mro          |
| POST | /login/{user}/{pass}          | return the role of user       |
| POST | /flight//addFlights/{flights} | upload a list of flight       |

# **Group Frontend**

DIALLO Mohamed HAMEDI Krimo INGANI Jude SY Amadou



### **Task Distributions**

- Jude & Amadou : taskFile createTaskFile
- Mohamed & Krimo : createTaskFile, uploadFile, taskFile

# **Group Web Service**

DIABIRA Binta
DIALLO Mohamed
FEKIH AHMED MEriem
ZIDANE Abderrazak

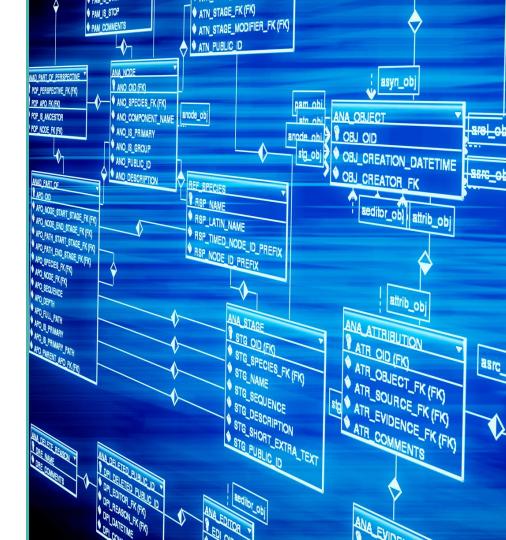


### **Task Distributions**

- Abdel : EmailAlertService.java, Taskstub.java
- Mohamed: Taskstub.java, User login
- Binta: Upload task and flight, taskstub

# **Group Backend**

HSIEH Yung-Kun
OULEBSIR Hocine
KABA Saran
FEKIH AHMED Meriem



### **Task Distributions**

#### HSIEH Yung-Kun

- 1. Infrastructure of ElasticSearch
- 2. TaskImpl.java
- 3. TaskInfoOrderByDa teComparator.java
- 4. JUnit test
- Support WebService & Frontend team

#### KABA Saran

- 1. Mrolmpl.java
- 2. Mcclmpl.java
- 3. Design data schemas from entities
- 4. UML class diagramme

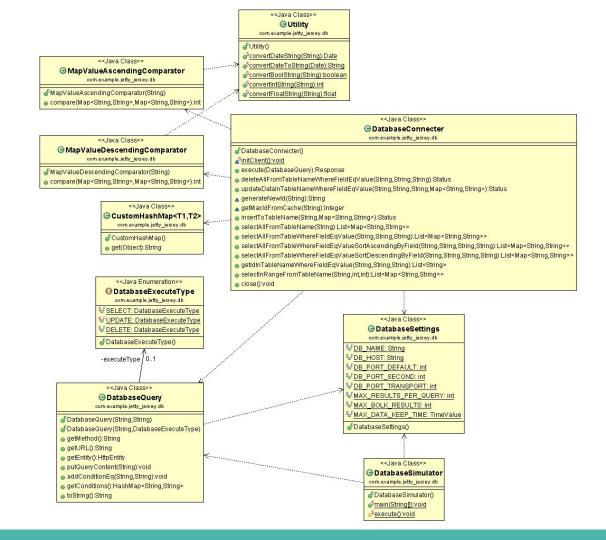
#### **OULEBSIR** Hocine

- 1. FlightImpl.java
- 2. Planelmpl.java
- 3. Design data simulation

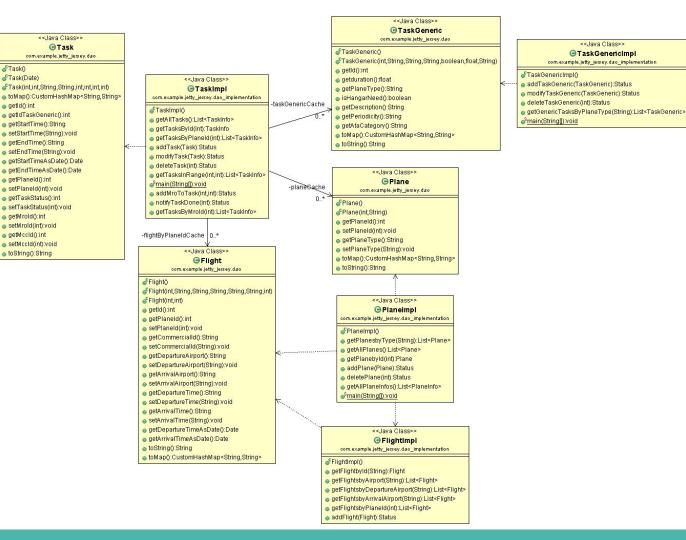
#### FEKIH AHMED Meriem

- 1. TaskGenericImpl.java
- 2. Support WebService team

# Class Diagramme Database



# Class Diagramme DAO



<<Java Class>>

@TaskGenericImpl

com.example.jetty\_jersey.dao\_implementation

## **Project Members**

- Diallo Mohamed
- Sy Amadou
- Ingani Jude
- Hamadi Krimo
- Fekih Ahmed Meriem
- Kaba Saran
- Yung-kun Hsieh
- Diabira Binta
- Oulebsir Hocine
- Zidane Abderrazak