Floucapt

Specification Report

Group A

Synthesis Project 2013-2014

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	Documentation officer :	Thomas Elain
	Test officer :	Antoine Boucher
Date		08/01/14
Version		1.0
Project website		http://redmine.iut-info-vannes.net/projects/flou_capt_a

Summary

I – Functionalities

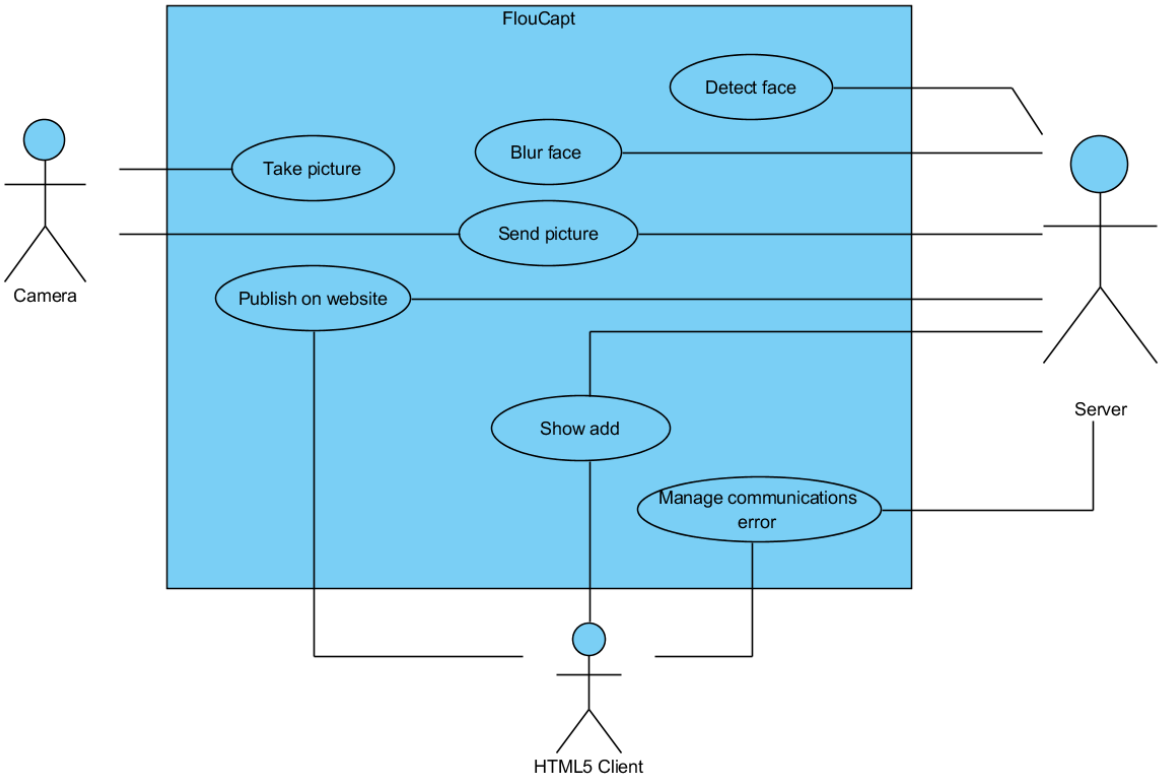
The project must permit :

- to take a picture every 10~30 seconds (this period will be decided later).

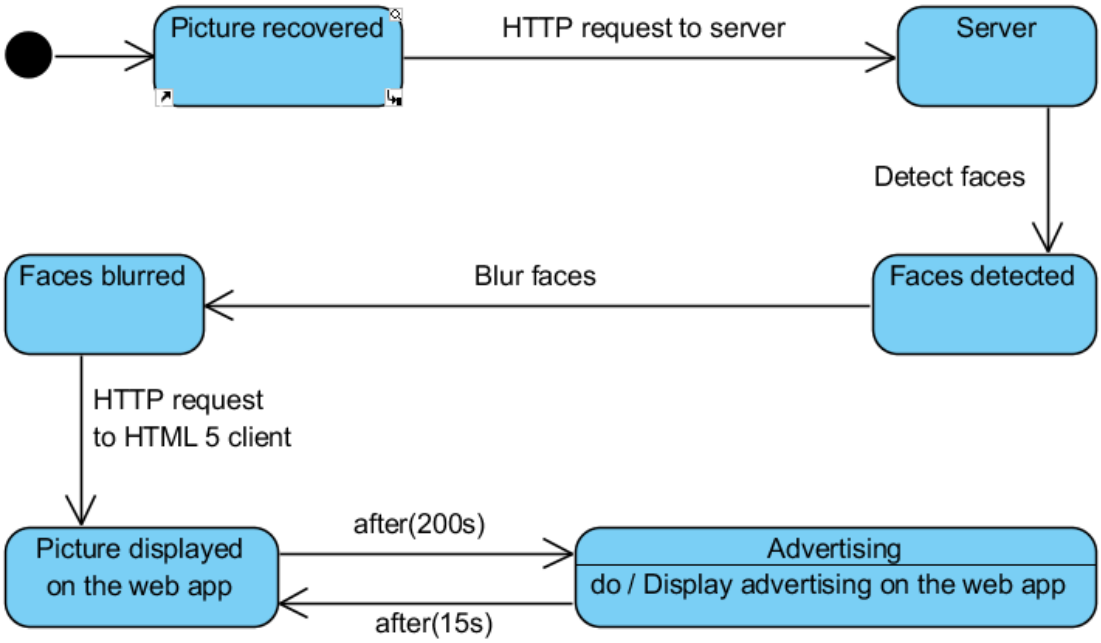
- to detect human faces and blur them in order to protect their identity.
- to transmit them to a webapp.
- to allow the user to visualize the last picture taken by the camera with his computer, smartphone or tab (android/apple).
- to add an advertisement picture sometimes.
- to make the webapp work on most of the web browsers (Google Chrome, Mozilla Firefox, Safari, Internet Explorer) and operating systems (Windows, linux, mac).

And would eventually allow the user to watch a historic of the taken pictures and, in the end, watch them the way he would watch a video.

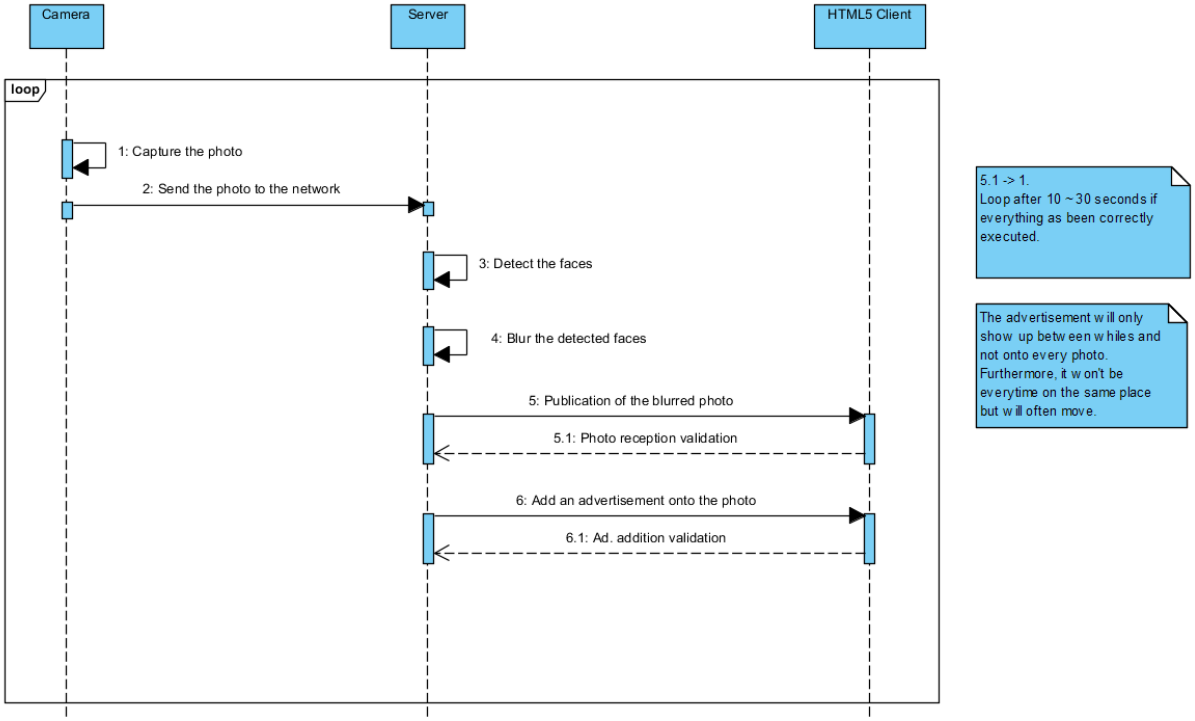
II – Use Case Diagram



III – Human Computer Interface



IV – Sequential Diagram



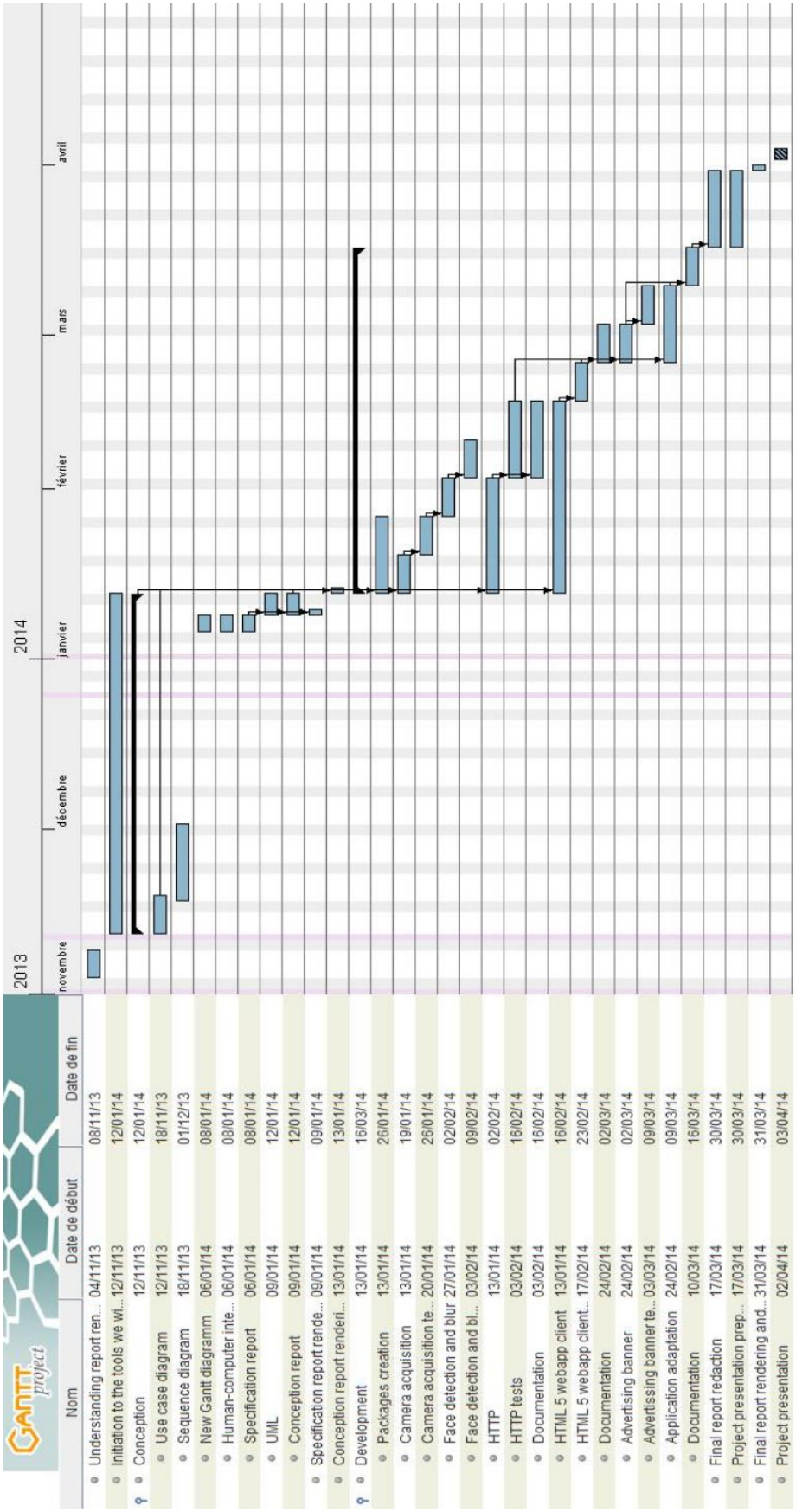
V – Architecture Description

First, the web app. send a signal to the camera in order to capture the photo which is afterwards send to the network.

Then the faces are detected and blurred and the photo is send to the HTML client which will show it up on the browser of the users.

An advertisement will show up once every 300 seconds and will stay 15 seconds on the screen (before vanishing).

VI – Gantt


GANTT project
Nom
Date de début
Date de fin
2013
2014
novembre
décembre
janvier
février
mars
avril
Understanding report ren... 04/11/13 08/11/13
Initiation to the tools we wi... 12/11/13 12/01/14
Conception 12/11/13 12/01/14
Use case diagram 12/11/13 18/11/13
Sequence diagram 18/11/13 01/12/13
New Gantt diagramm 06/01/14 08/01/14
Human-computer inte... 06/01/14 08/01/14
Specification report 06/01/14 08/01/14
UML 09/01/14 12/01/14
Conception report 09/01/14 12/01/14
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Conception report renderi... 13/01/14 13/01/14
Development 13/01/14 16/03/14
Packages creation 13/01/14 26/01/14
Camera acquisition 13/01/14 19/01/14
Camera acquisition te... 20/01/14 26/01/14
Face detection and blur 27/01/14 02/02/14
Face detection and bl... 03/02/14 09/02/14
HTTP 13/01/14 02/02/14
HTTP tests 03/02/14 16/02/14
Documentation 03/02/14 16/02/14
HTML 5 webapp client 13/01/14 16/02/14
HTML 5 webapp client... 17/02/14 23/02/14
Documentation 24/02/14 02/03/14
Advertising banner 24/02/14 02/03/14
Advertissing banner te... 03/03/14 09/03/14
Application adaptation 24/02/14 09/03/14
Documentation 10/03/14 16/03/14
Final report redaction 17/03/14 30/03/14
Project presentation prep... 17/03/14 30/03/14
Final report rendering and... 31/03/14 31/03/14
Project presentation 02/04/14 03/04/14