Anexe

Index.php

login.erb

```
double style="background-color: 004ddd">
div
div>
div id='camera_stuff'>
div id='came
```

Register.erb

Login.js

```
// Compare the captured image of the face to our collection from AWS
var search_face = function() {
  var snapshot = camera_stuff.capture();
//setting the api_url for the ruby file for comparing faces
var api_url = "/search";
$("#wait_image").show();
snapshot.upload({api_url: api_url}).done(function(response) {
         //it contains three properties: message, id and confidence coefficient
     var data = JSON.parse(response);
if (data.id !== undefined) {
    $("#confirm").html(data.message + " " + data.id + ", Accuracy: " + data.confidence);
        $.post("/voice", {tosay: "Good " + timeOfDay(moment()) + " " + data.id}, function(response)
          //set properties for the "voice"
$("#voice").attr("src", "data:audio/mpeg;base64," + response);
$("#voice")[0].play();
        });
//if login is successfull redirect to the next page after 5 seconds
        setTimeout(function(){
    $(document).ready( function() {
                url = "test";
$( location ).attr("href", url);
        }, 5000);
        $("#confirm").html(data.message);
     $("#wait_image").hide();
     this.discard();
  }).fail(function(status_code, error_message, response)
     //in case of fail show the error message
$("#state").html("Login failed with status " + status_code + " (" + error_message + ")");
     $("#confirm").html(response);
$("#wait_image").hide();
```

Register.js

```
$(document).ready(function() {
   if (window.JpegCamera) {
     var camera_stuff;
     // Register an user by adding the photo in the collection
     var register_user = function()
       //verifying if the user sets a name for its face
var face_id = $("#face_id").val();
       if (!face_id.length) {
    $("#state").html("Please tell us the name for this user");
          return; }
//take the face image at the moment of pressing the button
       //take the face image at the moment of pressing int
var snapshot = camera_stuff.capture();
//setting the api_url for the ruby file for "adding" operation
       //setting the api_url for the rul
var api_url = "/add/" + face_id;
$("#wait_image").show();
        snapshot.upload({api_url: api_url}).done(function(response)
              //in case of successfull add of the image show an information message
          $("#confirm").html(response);
$("#wait_image").hide();
          this.discard();
        }).fail(function(status_code, error_message, response)
          $("#state").html("Adding user failed with status " + status_code + " (" + error_message + ")");
          $("#confirm").html(response);
$("#wait_image").hide();
      //setting actions for each button
     $("#register_user").click(register_user);
     //setting the camera_stuff properties used in the JpegCamera library var {\it options} = {
      shutter_ogg_url: "js/jpeg_camera/shutter.ogg",
shutter_mp3_url: "js/jpeg_camera/shutter.mp3",
swf_url: "js/jpeg_camera/jpeg_camera.swf"
```

Go.erb

```
tyle type="text/css"
              #warning-message { display: none; }
@media only screen and (orientation:portrait){
                   #wrapper { display:none; }
#warning-message { display:block; }
              @media only screen and (orientation:landscape){
    #warning-message { display:none; }
      ⊟<html>
⊟<head>
      |</head>
||</head>
||</head>
            <div id="wrapper" class="center2">
  <div style="font-size: 200px; color: white"><span id="timer"></span></div>
             <div id="warning-message" class="center-div">
                       <img src="http://cdn.3dvista.com/brookwood/media/rotate.gif" class="center">
25
26
             27
28
29
             document.getElementById('timer').innerHTML = 4;
33
34
35
36
37
             startTimer();
              function startTimer() {
                  var m = document.getElementById('timer').innerHTML;
if(m>0 && window.innerHeight < window.innerWidth){m=m-1}</pre>
                   if(m==0){
39
40
                       //window.location.href="http://www.google.com";
                  document.getElementById('timer').innerHTML = m ;
                   setTimeout(startTimer, 1000);
if(window.innerWeight > window.innerWidth){
                             document.getElementById('timer').innerHTML = 4;
```

App.erb

```
socket = io.connect('192.168.43.170:8080');
 var nIntervId;
 var start=0;
±$(function()
     nIntervId = setInterval(SendToPi ,2500);
 3);
function logout() {
                   window.location.href="192.168.43.170";
function inc() {
                   var elem = document.getElementById("btn-start");
                   if (elem.value == "START") elem.value = "STOP";
else elem.value = "START";
                    if (start%2 == 1) {
                            elem.style.backgroundColor = "#A93226"
                            elem.value = "STOP";
elem.innerHTML = 'STOP';
                   else {
                            elem.style.backgroundColor = "#1E8449"
                            elem.value = "START";
elem.innerHTML = 'START';
                    start=start+1;
```

App.js

```
var app = require('http').createServer(handler)
, io = require('socket.io').listen(app)
, fs = require('fs')
, static = require('node-static')
   , sys = require('util')
, sleep = require('sleep-ms')
 app.listen(8080);
var Gpio = require('onoff').Gpio;
 var FW = new Gpio(19, 'out');
var RET = new Gpio(26, 'out');
var LEFT = new Gpio(6, 'out');
 var RIGHT = new Gpio(13, 'out');
 var file = new(static.Server)();
Hfunction handler(request, response) {
    console.log('serving file',request.url)
    file.serve(request, response);
};
 console.log('Pi Car we server listening on port 8080 visit http://licenta.local$
lastAction = "";
//If we lose comms set the servos to neutral //

¡function emergencyStop() {
           //enter 0 point
                                    here specific to your pwm control
              FW.writeSync(0);
              RET.writeSync(0);
            console.log('###EMERGENCY STOP - signal lost or shutting down');
}//END emergencyStop
// fire up a web socket server isten to cmds from the phone and set pwm
 // accordingly, if using a separate battery pack then disable the
// motor acceleration rate limiting algorithm as this is required when the
  // Pi and motors share the same battery.
⊟io.sockets.on('connection', function (socket) {
             socket.on('fromclient', function (data)
                        // we want normal de-cceleration as this doesn't drain the batt$
                 if(data.start%2==0){
                        if(data.x < 5) //fwd accel</pre>
                                   FW.writeSync(1);
                                   RET.writeSync(0);
                        }else if(data.z < 5) //fwd accel
```

```
FW.writeSync(0);
                           RET.writeSync(1);
                  }else{
                           //console.log('stop');
                           FW.writeSync(0);
                           RET.writeSync(0);
                  }
if(data.y < -2.5)
 ŧ
  //console.log('stanga');
                           LEFT.writeSync(1);
                           RIGHT.writeSync(0);
                  }else if(data.y > 2.5)
                           LEFT.writeSync(0);
                           RIGHT.writeSync(1);
                           LEFT.writeSync(0);
                           RIGHT.writeSync(0);
                  clearInterval(lastAction); //stop emergency stop timer
                  lastAction = setInterval(emergencyStop,2000); //set emergency s$
                           LEFT.writeSync(0);
  RIGHT.writeSync(0);
                           FW.writeSync(0);
                           RET.writeSync(0);
[});//END io.sockets.on
});//END io.sockets.on
//user hits ctrl+c
process.on('SIGINT', function() {
  emergencyStop();
  console.log("\nGracefully shutting down from SIGINT (Ctrl-C)");
   return process.exit();
});//END process.on
```

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