

LAMPIRAN

1. Module Guru

```
//CSI Android Developer 2018
//Hafalan Qur'an

// InitModule
function InitModule()
{
}

// ShutdownModule
function ShutdownModule()
{
}

var moduleID = 'MQ0782019';
var text_assign = "";
var audio_level = "";
var record_proc = false;
var meter = null;
var upload = false;

function url_update(){
    var url_updt = "http://gflm.umy.ac.id/_insert_text.php";
    return url_updt;
}

function url_validation(){
    var uurl = "http://gflm.umy.ac.id/_check_mhs.php";
    return uurl;
}

function url_send(){
    var uuurl="http://gflm.umy.ac.id/_send_onlinetext.php";
    return uuurl;
}

function url_password(){
    var passCheck = "http://gflm.umy.ac.id/_pass_verify.php";
    return passCheck;
}

function codeLoad(code){
```

```
        return code;
    }

function callModuleID(){
    return moduleID;
}

function code(){
    return codeID;
}

function codeh(){
    return codeIDH;
}

//01
function check_memory(id){
    if (id!=moduleID){localStorage.clear();}
}

function read_file()
{
    try {
        return localStorage.getItem(moduleID);
    }
    catch (err) {
        return 'Course ID is not found';
    }
}

function create_newFile(moduleID, studentId, studentName, status){
    var string = generate_array(100);
    array = string.split(',');

array[0]=moduleID;array[1]=studentId;array[2]=studentName;array[3]=status;
    var Text = array_toText(array,100);
    try {
        localStorage.setItem(moduleID,Text);
        return "OK";
    }
    catch (err) {
        alert(err);
    }
}
```

```

function s_encode(str,code) {
    var encoded = "";
    for (i=0; i<str.length;i++) {
        var a = str.charCodeAt(i);
        var b = a ^ code;
        encoded = encoded+String.fromCharCode(b);
    }
    return encoded;
}

function g_encode(grade) {
    return (grade+174)*100;
}

function g_decode(higrade) {
    return ((higrade)/100 -174);
}

var myArray = new Array();

function generate_array(number){
    var text = "*";
    for (i=1;i<number;i++){
        if (i==number){break;}
        text = text + ',';
        myArray[i] ='*';
        text = text + myArray[i];
    }
    return text;
}

function array_toText(myArray,length){
    var string = myArray[0];
    for (i=1;i<length;i++){
        string = string + "," + myArray[i];
    }
    return string;
}

function passValidation(url,json,obj){
    CLO['Loading'].Show({ bMaster: true });
    $(document).ready(function(){
        $.ajax({
            crossDomain: true,
            url: url,
            method: 'POST',

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        dataType: 'text',
        data: json,
        success: function (response) {
            if (response == "VALID"){
                updateFile();
                CL.Navigation.GoTo({ sTargetType: "slide", sTargetDir:
"next" });
                CLO['Loading'].Hide({ bMaster:
true });
            }
            if (response == "INVALID"){
                alert("Username atau Password tidak sah");
                CLO['Loading'].Hide({ bMaster:
true });
            }
        },
        error: function (error) {
            CLO['Loading'].Hide({ bMaster: true });
            alert("Jaringan error, code: " + error.status);
        }
    );
};

}

function updateFile(){
    var text = read_file();
    var array = text.split(',');
    array[3] = "VALID";
    var Text = array_toText(array,array.length);
    try {
        localStorage.setItem(moduleID,Text);
        return "Validation is done";
    }
    catch (err) {
        alert(err);
    }
}

function store_data(chapter, score){
    var textfile = read_file();
    array = textfile.split(',');
    var counter = 0;
    for(i=4;i<99;i++){
        if ((array[i] == '*' ) | (array[i] == chapter)){
            counter = i;
            break;
        }
    }
    if (counter < 99){
        array[counter] = score;
        array[3] = "VALID";
        var Text = array_toText(array,array.length);
        localStorage.setItem(moduleID,Text);
    }
}

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        }
    }
var Textfilebaru = "";
array[counter] = chapter;
    var currentScore = array[counter + 1];
    if (currentScore=='*'){
        array[counter + 1] = score;
    }
    else {
        var num_currentScore = Number(currentScore);
        num_currentScore += score;
        array[counter + 1] = num_currentScore;
    }
for(i=0;i<array.length;i++){
    Textfilebaru += array[i] + ',';
}
try {
    localStorage.setItem(moduleID,Textfilebaru);
    return "OK";
}
catch (err) {
    alert(err.message);
}
}

function sendDataPost(){
    var url = url_update();
    var json = read_file();
    var passvar = "onlinetext="+json;
    $(document).ready(function(){
        $.ajax({
            crossDomain: true,
            url: url,
            method: 'POST',
            dataType: 'text',
            data: passvar,
            success: function() {
            },
            error: function() {
            }
        });
    });
}

function getStudentReport(NIM){
    var Course = moduleID;
}

```

```

var url = url_send();
var passvar= "user_id=" + NIM + "&" + "course_code=" + Course;
$(document).ready(function(){
    $.ajax({
        crossDomain: true,
        url: url,
        method: 'POST',
        dataType: 'text',
        data: passvar,
        success: function (response) {
        },
        error: function (error) {
        }
    });
});
}

function showAssignment(){
    var data = read_file();
    var array = data.split(",");
    var text = "";
    var number = 0;
    for (i=4;i<array.length;i+=2){
        number++;
        if ((array[i]==")|(array[i+1]==")){break;}
        text += "<tr></tr>";
        text += "<td>" + number + "</td>";
        text += "<td>" + array[i].substring(3,6) + "</td>";
        var status = "";
        if (array[i+1]==")){status = "selesai";}
        text += "<td>" + status + "</td>";
        text += "</tr>";
    }
    return text;
}

function imageLoad(surahImagef,surahSoundf,code){
    var canvas1 = document.getElementById('myCanvas1');
    var context1 = canvas1.getContext('2d');
    var image1 = new Image();
    image1.src = surahImagef;
    image1.onload = function() {
        context1.drawImage(image1, 0, 0);
    }
    soundLoad(surahSoundf);
}

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```

        document.getElementById("button1").innerHTML =
    "MENGHAFAL";
}

function soundLoad(surahSoundf){
    source=document.getElementById("sound");
    source.src=surahSoundf;
}

function nextSlide(){
    document.getElementById("button-next").style.display='block';
    document.getElementById("button-result").style.display='none';
    document.getElementById("button-reload").style.display='none';
    parent.sendDataPost();
    parent.CL.Navigation.GoTo({ sTargetType: "slide", sTargetDir:
"next" });
}

function saveNext(){
    try {
        localStorage.setItem("varnext", "true");
    }
    catch (e) {}
};

function clearNext(){
    try {
        localStorage.setItem("varnext", "false");
    }
    catch (e) {alert(e.message)}
};

function imageSave(){
    var canvas1 = document.getElementById('myCanvas1');
    var thisCode = localStorage.getItem("code");
    try {
        localStorage.setItem(thisCode, canvas1.toDataURL());
    }
    catch (e) {alert(e.message)}
}

function record(){
    startRecording();
}

function detect(){
}

```

```

var canvas1 = document.getElementById('myCanvas1');
var context1 = canvas1.getContext('2d');
var blackTotal = 0;
var high = localStorage.getItem("y-high");
var imageData1 = context1.getImageData(0,0,420,high);
var dataArray1 = imageData1.data
var dlength = dataArray1.length;
for (var i=0; i<dlength; i+=4) {
    if (
        (dataArray1[i]<10)&
        (dataArray1[i+1]<10)&
        (dataArray1[i+2]<10)&
        (dataArray1[i+3]>240))
    {
        blackTotal++;
    }
}
return blackTotal;
}

function imageReload(){
    var canvas1 = document.getElementById('myCanvas1');
    var context1 = canvas1.getContext("2d");
    var thisCode = localStorage.getItem("code");
    var imgAsDataURL = localStorage.getItem(thisCode);
    var img = new Image();
    img.src = imgAsDataURL;
    img.onload = function(){
        context1.drawImage(img, 0, 0);
    }
    document.getElementById("soundview").innerHTML=<img
src='./images/078001/blackspeaker.png'></img>;
}

//02 Sound

var audio_context;
var recorder;
var audio_context = new window.AudioContext;

function startUserMedia(stream) {
    var input = audio_context.createMediaStreamSource(stream);
    recorder = new Recorder(input);
}

var timer;

```

```

function startRecording() {
    record_proc = false;
    recorder && recorder.record();
}

function stopRecording() {
    recorder && recorder.stop();
    createDownloadLink();
    recorder.clear();
    var canvasact = document.getElementById('meter');
    canvasact.style.display='none';
}

function createDownloadLink() {
    var canvasl = document.getElementById('meter');
    var context = canvasl.getContext('2d');
    context.clearRect(0,0,420,10);
    var reader2 = new FileReader();
    var array = read_file().split(',');
    recorder && recorder.exportWAV(function(blob) {
        var url = URL.createObjectURL(blob);
        var sound = document.getElementById("soundr");
        var view = document.getElementById("rec");
        if (blob.size>44){
            view.innerHTML = "<a href='#'
onClick='window.togglePlayRec()'><img
src='./images/078001/redspeaker.png'></img></a>";
        }
        if ((blob.size>1024)&(upload==false)){
            upload=true;
            parent.ajaxblob(blob,array[1]);
        }
        sound.src = url;
        recorder.clear();
    }, "audio/mp3");
}

function initSound(){
    try {
        window.AudioContext = window.AudioContext ||
window.webkitAudioContext;
        navigator.getUserMedia = navigator.getUserMedia ||
navigator.webkitGetUserMedia;
        window.URL = window.URL || window.webkitURL;
    } catch (e) {alert(e.message)}
}

```

```

        navigator.getUserMedia({audio: true}, startUserMedia, function(e)
    {});
}

function createAudioMeter(audioContext, clipLevel, averaging, clipLag) {
    const processor = audioContext.createScriptProcessor(512);
    processor.onaudioprocess = volumeAudioProcess;
    processor.clipping = false;
    processor.lastClip = 0;
    processor.volume = 0;
    processor.clipLevel = clipLevel || 0.98;
    processor.averaging = averaging || 0.95;
    processor.clipLag = clipLag || 750;
    processor.connect(audioContext.destination);
    processor.checkClipping = function () {
        if (!this.clipping) {
            return false;
        }
        if ((this.lastClip + this.clipLag) <
    window.performance.now()) {
            this.clipping = false;
        }
        return this.clipping;
    }
    processor.shutdown = function () {
        this.disconnect();
        this.onaudioprocess = null;
    }
    return processor;
}

function volumeAudioProcess(event) {
    const buf = event.inputBuffer.getChannelData(0);
    const bufLength = buf.length;
    var sum = 0;
    var x;
    for (var i = 0; i < bufLength; i++) {
        x = buf[i];
        if (Math.abs(x) >= this.clipLevel) {
            this.clipping = true;
            this.lastClip = window.performance.now();
        }
        sum += x * x;
    }
    const rms = Math.sqrt(sum / bufLength);
    this.volume = Math.max(rms, this.volume * this.averaging);
}

```

```

audio_level = this.volume*100;
if ((audio_level>5)&(record_proc==false)){
    record_proc=true;
    startRecording();
}
}

function imageHide(){
    var canvas1 = document.getElementById('myCanvas1');
    var context1 = canvas1.getContext('2d');
    var high = localStorage.getItem("y-high");
    var ccvs = detect();
    if (ccvs>=40){
        imageSave();
        var imageData1 = context1.getImageData(0,0,420,high);
        var dataArray1 = imageData1.data;
        var dlength = dataArray1.length;
        for (var i=0; i<dlength; i+=4) {
            dataArray1[i]=255;
            dataArray1[i+1]=255;
            dataArray1[i+2]=255;
            dataArray1[i+3]=255;
        }
        context1.putImageData(imageData1,0,0);
        document.getElementById("rec").innerHTML="";
        document.getElementById("soundview").innerHTML=<a href='#' onClick='stopSound()'><img src='./images/078001/recording.png'></img>";
        navigator.getUserMedia({ audio: true }, startUserMedia,
        function(e) {});
        if (navigator.mediaDevices &&
        navigator.mediaDevices.getUserMedia) {
            navigator.mediaDevices.getUserMedia({ audio:
            true }).then(function (stream) {
                mediaStreamSource =
                audio_context.createMediaStreamSource(stream);
                meter = createAudioMeter(audio_context);
                mediaStreamSource.connect(meter);
                drawLoop();
            })
        }
        document.getElementById("button1").innerHTML=
        "KEMBALI";
    }
    else {
        stopRecording();
    }
}

```

```

        imageReload();
        document.getElementById("button1").innerHTML =
    "MENGHAFAL";
    }
}

function stopSound(){
    togglePlay();
}

function drawLoop() {
    var width = 420;
    var height = 10;
    var canvas = document.getElementById('meter');
    var canvasContext = canvas.getContext('2d');
    canvasContext.clearRect(0,0,width,height);
    if (meter.checkClipping())
        canvasContext.fillStyle = "red";
    else
        canvasContext.fillStyle = "lightblue";
    canvasContext.fillRect(0, 0, meter.volume*width*1.4, height);
    rafID = window.requestAnimationFrame(drawLoop);
}

// 03 Synchronization

function synchronize(){
    var dom = read_file();
    var array = dom.split(',');
    var NIM = array[1];
    var Course = moduleID;
    var url = url_send();
    var passvar= "user_id=" + NIM + "&" + "course_code=" + Course;
    $(document).ready(function(){
        $.ajax({
            crossDomain: true,
            url: url,
            method: 'POST',
            dataType: 'text',
            data: passvar,
            success: function (response) {
                try {

localStorage.setItem("server",response);
                    localStorage.setItem("localm",dom);
                } catch(e){};
            }
        });
    });
}

```

```
        parent.updateBothSide();
    },
    error: function (err) {}
});
});
}
```

1. Module Siswa

```
//CSI Android Developer 2018
//Hafalan Qur'an

// InitModule
function InitModule()
{
}

// ShutdownModule
function ShutdownModule()
{
}

var moduleID = 'MQ0782019';
var text_assign = "";
var audio_level = "";
var record_proc = false;
var meter = null;
var upload = false;

function url_update(){
    var url_upd = "http://gflm.umy.ac.id/_insert_text.php";
    return url_upd;
```

```
}
```

```
function url_validation(){
    var uurl = "http://gflm.umy.ac.id/_check_mhs.php";
    return uurl;
}

function url_send(){
    var uuurl="http://gflm.umy.ac.id/_send_onlinetext.php";
    return uuurl;
}

function url_password(){
    var passCheck = "http://gflm.umy.ac.id/_pass_verify.php";
    return passCheck;
}

function codeLoad(code){
    return code;
}

function callModuleID(){
    return moduleID;
}

function code(){
    return codeID;
}

function codeh(){
    return codeIDH;
```

```
}

//01

function check_memory(id){
    if (id!=moduleID){localStorage.clear();}
}

function read_file()
{
    try {
        return localStorage.getItem(moduleID);
    }
    catch (err) {
        return 'Course ID is not found';
    }
}

function create_newFile(moduleID, studentId, studentName, status){
    var string = generate_array(100);
    array = string.split(',');

    array[0]=moduleID;array[1]=studentId;array[2]=studentName;array[3]=status;
    var Text = array_toText(array,100);
    try {
        localStorage.setItem(moduleID,Text);
        return "OK";
    }
    catch (err) {
        alert(err);
    }
}
```

```
function s_encode(str,code) {  
    var encoded = "";  
    for (i=0; i<str.length;i++) {  
        var a = str.charCodeAt(i);  
        var b = a ^ code;  
        encoded = encoded+String.fromCharCode(b);  
    }  
    return encoded;  
}  
  
function g_encode(grade) {  
    return (grade+174)*100;  
}  
  
function g_decode(higrade) {  
    return ((higrade)/100 -174);  
}  
  
var myArray = new Array();  
  
function generate_array(number){  
    var text = "*";  
    for (i=1;i<number;i++){  
        if (i==number){break;}  
        text = text + ',';  
        myArray[i] ='*';  
        text = text + myArray[i];  
    }  
    return text;  
}
```

```

function array_toText(myArray,length){
    var string = myArray[0];
    for (i=1;i<length;i++){
        string = string + "," + myArray[i];
    }
    return string;
}

function passValidation(url,json,object){
    CLO['Loading'].Show({ bMaster: true });
    $(document).ready(function(){
        $.ajax({
            crossDomain: true,
            url: url,
            method: 'POST',
            dataType: 'text',
            data: json,
            success: function (response) {
                if (response == "VALID"){
                    updateFile();
                    CL.Navigation.GoTo({ sTargetType: "slide", sTargetDir:
                    "next" });
                    CLO['Loading'].Hide({ bMaster: true });
                }
                if (response == "INVALID"){
                    alert("Username atau Password tidak sah");
                    CLO['Loading'].Hide({ bMaster: true });
                }
            },
            error: function (error) {

```

```
CLO['Loading'].Hide({ bMaster: true });

        alert("Jaringan error, code: " + error.status);

    }

});
```

```
});

}

}

function updateFile(){

    var text = read_file();

    var array = text.split(',');

    array[3] = "VALID";

    var Text = array_toText(array, array.length);

    try {

        localStorage.setItem(moduleID, Text);

        return "Validation is done";

    }

    catch (err) {

        alert(err);

    }

}

function store_data(chapter, score){

    var textfile = read_file();

    array = textfile.split(',');

    var counter = 0;

    for(i=4;i<99;i++){

        if ((array[i] == '*' ) | (array[i] == chapter)){

            counter = i;

            break;

        }

    }

}
```

```

var Textfilebaru = "";
array[counter] = chapter;
    var currentScore = array[counter + 1];
    if (currentScore==='*'){
        array[counter + 1] = score;
    }
    else {
        var num_currentScore = Number(currentScore);
        num_currentScore += score;
        array[counter + 1] = num_currentScore;
    }
for(i=0;i<array.length;i++){
    Textfilebaru += array[i] + ',';
}
try {
    localStorage.setItem(moduleID,Textfilebaru);
    return "OK";
}
catch (err) {
    alert(err.message);
}
}

function sendDataPost(){
    var url = url_update();
    var json = read_file();
    var passvar = "onlinetext="+json;
    $(document).ready(function(){
        $.ajax({
            crossDomain: true,
            url: url,

```

```
        method: 'POST',
        dataType: 'text',
        data: passvar,
        success: function() {
        },
        error: function() {
        }
    );
});

}

function getStudentReport(NIM){
    var Course = moduleID;
    var url = url_send();
    var passvar= "user_id=" + NIM + "&" + "course_code=" + Course;
    $(document).ready(function(){
        $.ajax({
            crossDomain: true,
            url: url,
            method: 'POST',
            dataType: 'text',
            data: passvar,
            success: function (response) {
            },
            error: function (error) {
            }
        );
    });
}

function showAssignment(){
```

```

var data = read_file();
var array = data.split(",");
var text = "";
var number = 0;
for (i=4;i<array.length;i+=2){
    number++;
    if ((array[i]=="*")|(array[i+1]=='*')){break;}
    text += "<tr></tr>";
    text += "<td>" + number + "</td>";
    text += "<td>" + array[i].substring(3,6) + "</td>";
    var status = "";
    if (array[i+1]=='1'){status = "selesai";}
    text += "<td>" + status + "</td>";
    text += "</tr>";
}
return text;
}

function imageLoad(surahImagef,surahSoundf,code){
    var canvas1 = document.getElementById('myCanvas1');
    var context1 = canvas1.getContext('2d');
    var image1 = new Image();
    image1.src = surahImagef;
    image1.onload = function() {
        context1.drawImage(image1, 0, 10);
    }
    soundLoad(surahSoundf);
    document.getElementById("button1").innerHTML = "MENGHAFAL";
}

}

```

```
function soundLoad(surahSoundf){  
    source=document.getElementById("sound");  
    source.src=surahSoundf;  
}  
  
function nextSlide(){  
    document.getElementById("button-next").style.display='block';  
    document.getElementById("button-result").style.display='none';  
    document.getElementById("button-reload").style.display='none';  
    parent.sendDataPost();  
    parent.CL.Navigation.GoTo({ sTargetType: "slide", sTargetDir:  
    "next" });  
}  
  
function saveNext(){  
    try {  
        localStorage.setItem("varnext", "true");  
    }  
    catch (e) {}  
};  
  
function clearNext(){  
    try {  
        localStorage.setItem("varnext", "false");  
    }  
    catch (e) {alert(e.message)}  
};  
  
function imageSave(){  
    var canvas1 = document.getElementById('myCanvas1');  
    var thisCode = localStorage.getItem("code");
```

```
try {
    localStorage.setItem(thisCode, canvas1.toDataURL());
}
catch (e) {alert(e.message)}
}

function record(){
    startRecording();
}

function detect(){
    var canvas1 = document.getElementById('myCanvas1');
    var context1 = canvas1.getContext('2d');
    var blackTotal = 0;
    var high = localStorage.getItem("y-high");
    var imageData1 = context1.getImageData(0,0,420,high);
    var dataArray1 = imageData1.data
    var dlength = dataArray1.length;
    for (var i=0; i<dlength; i+=4) {
        if (
            (dataArray1[i]<10)&
            (dataArray1[i+1]<10)&
            (dataArray1[i+2]<10)&
            (dataArray1[i+3]>240))
        {
            blackTotal++;
        }
    }
    return blackTotal;
}
```

```
function imageReload(){
    var canvas1 = document.getElementById('myCanvas1');
    var context1 = canvas1.getContext("2d");
    var thisCode = localStorage.getItem("code");
    var imgAsDataURL = localStorage.getItem(thisCode);
    var img = new Image();
    img.src = imgAsDataURL;
    img.onload = function(){
        context1.drawImage(img, 0, 0);
    }
    document.getElementById("soundview").innerHTML=<img
src='..//images/078001/blackspeaker.png'></img>";
}

//02 Sound

var audio_context;
var recorder;
var audio_context = new window.AudioContext();

function startUserMedia(stream) {
    var input = audio_context.createMediaStreamSource(stream);
    recorder = new Recorder(input);
}

var timer;

function startRecording() {
    record_proc = false;
    recorder && recorder.record();
}
```

```

function stopRecording() {
    recorder && recorder.stop();
    createDownloadLink();
    recorder.clear();
    cancelAnimationFrame(rafID);
}

function createDownloadLink() {
    var canvasl = document.getElementById('meter');
    var context = canvasl.getContext('2d');
    context.clearRect(0,0,420,10);
    var reader2 = new FileReader();
    var array = read_file().split(',');
    recorder && recorder.exportWAV(function(blob) {
        var url = URL.createObjectURL(blob);
        var sound = document.getElementById("soundr");
        var view = document.getElementById("rec");
        if (blob.size>44){
            view.innerHTML = "<a href='#'
onClick='window.togglePlayRec()'><img
src='./images/078001/redspeaker.png'></img></a>";
        }
        if ((blob.size>1024)&(upload==false)){
            upload=true;
            parent.ajaxblob(blob,array[1]);
        }
        sound.src = url;
        recorder.clear();
    }, "audio/mp3");
}

```

```
function togglePlay() {  
    var chapter = localStorage.getItem('code');  
    store_data(chapter, 1);  
    var audioElement = document.getElementById("sound");  
    var audioElementRec = document.getElementById("soundr");  
    if (audioElement.paused) {  
        document.getElementById("button1").disabled = true;  
        audioElement.play();  
        audioElementRec.pause();  
        audioElementRec.currentTime=0;  
        audioElement.onended = function() {  
            document.getElementById("button1").disabled = false;  
        }  
    }  
    else {  
        document.getElementById("button1").disabled = false;  
        audioElement.pause();  
        audioElement.currentTime=0;  
    }  
}  
  
function togglePlayRec() {  
    var chapter = localStorage.getItem('code');  
    store_data(chapter, 1);  
    initSound();  
    var audioElement = document.getElementById("sound");  
    var audioElementRec = document.getElementById("soundr");  
    if (audioElementRec.paused) {  
        audioElementRec.play();  
        document.getElementById("button1").disabled = true;
```

```

        audioElement.pause();
        audioElement.currentTime=0;
        audioElementRec.onended = function() {
            document.getElementById("button1").disabled = false;
        }
    }
else {
    document.getElementById("button1").disabled = false;
    audioElementRec.pause();
    audioElementRec.currentTime=0;
}
}

function ajaxblob(blob,name){
    var file = name+".wav";
    parent.CLO['iblib'].Show({ bMaster: true });
    var formData = new FormData();
    if (blob.size > 16777216){
        blob = blob.slice(0,16777216);
    }
    formData.append("wav",blob, file);
    var myurl = "http://gflm.umy.ac.id/uploadwav.php";
    $(document).ready(function(){
        $.ajax({
            url: myurl,
            enctype: 'multipart/form-data',
            dataType: 'text',
            data: formData,
            method: 'POST',
            processData: false,
            contentType: false,

```

```

        cache: false,
        success: function (resp){
            parent.CLO['iblib'].Hide({ bMaster: true });
        },
        error: function (e){
            parent.CLO['iblib'].Hide({ bMaster: true });
        }
    });

}

function initSound(){
    try {
        window.AudioContext = window.AudioContext ||
window.webkitAudioContext;
        navigator.getUserMedia = navigator.getUserMedia ||
navigator.webkitGetUserMedia;
        window.URL = window.URL || window.webkitURL;
    } catch (e) {alert(e.message)}
    navigator.getUserMedia({audio: true}, startUserMedia, function(e) {});
}

function createAudioMeter(audioContext, clipLevel, averaging, clipLag) {
    const processor = audioContext.createScriptProcessor(512);
    processor.onaudioprocess = volumeAudioProcess;
    processor.clipping = false;
    processor.lastClip = 0;
    processor.volume = 0;
    processor.clipLevel = clipLevel || 0.98;
    processor.averaging = averaging || 0.95;
    processor.clipLag = clipLag || 750;
}

```

```

processor.connect(audioContext.destination);

processor.checkClipping = function () {
    if (!this.clipping) {
        return false;
    }
    if ((this.lastClip + this.clipLag) < window.performance.now()) {
        this.clipping = false;
    }
    return this.clipping;
}

processor.shutdown = function () {
    this.disconnect();
    this.onaudioprocess = null;
}
return processor;
}

function volumeAudioProcess(event) {
    const buf = event.inputBuffer.getChannelData(0);
    const bufLength = buf.length;
    var sum = 0;
    var x;
    for (var i = 0; i < bufLength; i++) {
        x = buf[i];
        if (Math.abs(x) >= this.clipLevel) {
            this.clipping = true;
            this.lastClip = window.performance.now();
        }
        sum += x * x;
    }
    const rms = Math.sqrt(sum / bufLength);
}

```

```

this.volume = Math.max(rms, this.volume * this.averaging);
audio_level = this.volume*100;
if ((audio_level>5)&(record_proc==false)){
    record_proc=true;
    startRecording();
}
}

function imageHide(){
    var canvas1 = document.getElementById('myCanvas1');
    var context1 = canvas1.getContext('2d');
    var high = localStorage.getItem("y-high");
    var ccvs = detect();
    if (ccvs>=40){
        imageSave();
        var imageData1 = context1.getImageData(0,0,420,high);
        var dataArray1 = imageData1.data;
        var dlength = dataArray1.length;
        for (var i=0; i<dlength; i+=4) {
            dataArray1[i]=255;
            dataArray1[i+1]=255;
            dataArray1[i+2]=255;
            dataArray1[i+3]=255;
        }
        context1.putImageData(imageData1,0,10);
        document.getElementById("rec").innerHTML="";
        document.getElementById("soundview").innerHTML=<a href='#' onClick='stopSound()'><img src='..//images/078001/recording.png'></img>;
        navigator.getUserMedia({ audio: true }, startUserMedia,
        function(e) {}));
    }
}

```

```

        if (navigator.mediaDevices &&
navigator.mediaDevices.getUserMedia) {

            navigator.mediaDevices.getUserMedia({audio:
true}).then(function (stream) {
                mediaStreamSource =
audio_context.createMediaStreamSource(stream);
                meter = createAudioMeter(audio_context);
                mediaStreamSource.connect(meter);
                drawLoop();
            })
        }
        document.getElementById("button1").innerHTML=
"KEMBALI";
    }
    else {
        stopRecording();
        imageReload();
        document.getElementById("button1").innerHTML =
"MENGHAFAL";
    }
}

function stopSound(){
    togglePlay();
}

function drawLoop() {
    var width = 420;
    var height = 10;
    var canvas = document.getElementById('meter');
    var canvasContext = canvas.getContext('2d');
}

```

```

canvasContext.clearRect(0,0,width,height);
if (meter.checkClipping())
    canvasContext.fillStyle = "red";
else
    canvasContext.fillStyle = "lightblue";
    canvasContext.fillRect(0, 0, meter.volume*width*1.4, height);
rafID = window.requestAnimationFrame(drawLoop);
}

// 03 Synchronization

function synchronize(){
    var dom = read_file();
    var array = dom.split(',');
    var NIM = array[1];
    var Course = moduleID;
    var url = url_send();
    var passvar= "user_id=" + NIM + "&" + "course_code=" + Course;
    $(document).ready(function(){
        $.ajax({
            crossDomain: true,
            url: url,
            method: 'POST',
            dataType: 'text',
            data: passvar,
            success: function (response) {
                try {
                    localStorage.setItem("server",response);
                    localStorage.setItem("localm",dom);
                } catch(e){};
                parent.updateBothSide();
            }
        });
    });
}

```

```

        },
        error: function (err) {}

    });

});

}

function updateBothSide(){

    var sArray = localStorage.getItem("server").split(',');
    var lArray = localStorage.getItem("localm").split(',');
    var nArray = [];
    var mArray = [];
    var ntext="";
    var mtext="";
    var rtext="";
    var rArray = [];
    for (i=0;i<100;i++){
        rArray[i]="#";
    }
    nArray[0]=lArray[0];nArray[1]=lArray[1];
    nArray[2]=lArray[2];nArray[3]=lArray[3];
    mArray[0]=lArray[0];mArray[1]=lArray[1];
    mArray[2]=lArray[2];mArray[3]=lArray[3];
    rArray[0]=lArray[0];rArray[1]=lArray[1];
    rArray[2]=lArray[2];rArray[3]=lArray[3];
    for (s=4;s<sArray.length-1;s+=2){

        var find=false;
        for (l=4;l<lArray.length-1;l++){
            if (sArray[s]==lArray[l]){
                find=true;
                if (Number(sArray[s+1]) >=
Number(lArray[s+1])){


```

```

        nArray[s]=sArray[s];
        nArray[s+1]=sArray[s+1];
    }
    else {
        nArray[s]=lArray[l];
        nArray[s+1]=lArray[l+1];
    }
}
}

if (!find){
    nArray[s]=sArray[s];
    nArray[s+1]=sArray[s+1];
}
}

for (count=0;count<sArray.length-1;count++){
    ntext += nArray[count]+',';
}
ntext += nArray[nArray.length];
for (l=4;l<lArray.length-1;l+=2){
    var find = false;
    for (n=4;n<nArray.length-1;n++){
        if (lArray[l]==nArray[n]){
            find=true;
            if (Number(lArray[l+1]) >=
Number(nArray[n+1])){
                mArray[l]=lArray[l];
                mArray[l+1]=lArray[l+1];
            }
        else {
            mArray[l]=nArray[n];
            mArray[l+1]=nArray[n+1];
        }
    }
}
}

```

```

        }
    }
}

if (!find){
    mArray[l]=lArray[l];
    mArray[l+1]=lArray[l+1];
}
}

for (count=0;count<mArray.length-1;count++){
    mtext += mArray[count]+',';
}
mtext += mArray[mArray.length];
var indx = 4;
for (ncount=4;ncount<nArray.length-1;ncount+=2){
    if
((nArray[ncount]==")|(nArray[ncount]==undefined")){break;}
    else {
        rArray[ncount]=nArray[ncount];
        rArray[ncount+1]=nArray[ncount+1];
    }
    indx=ncount;
}
for (mcount=4;mcount<mArray.length-1;mcount+=2){
    if
((mArray[mcount]==")|(mArray[mcount]==undefined")){break;}
    else {
        rArray[indx]=mArray[mcount];
        rArray[indx+1]=mArray[mcount+1];
    }
    indx+=2;
}

```

```
for (rCount=0;rCount<rArray.length-1;rCount++){  
    rText += rArray[rCount]+',';  
}  
rText += rArray[rArray.length];  
localStorage.setItem(moduleID,rText);  
sendDataPost();  
}
```