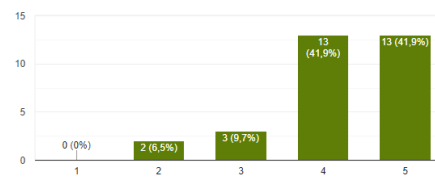


LAMPIRAN

Lampiran 1 Hasil Questioner menggunakan Skala likert

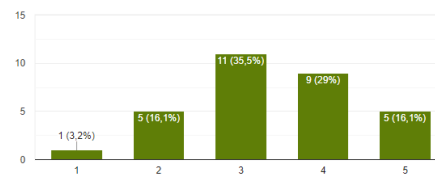
Aplikasi ini mudah digunakan?

31 tanggapan



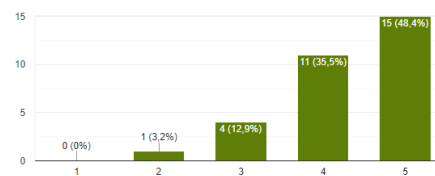
Isi video mudah dipahami?

31 tanggapan



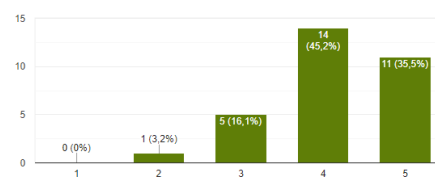
Isi text mudah dipahami?

31 tanggapan



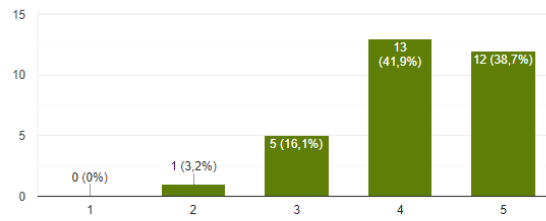
Aplikasi bisa digunakan setiap saat dimana saja dan kapan saja?

31 tanggapan



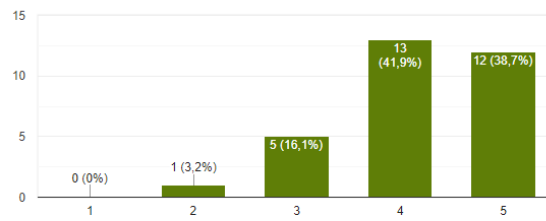
Setelah belajar, soal mudah dijawab?

31 tanggapan



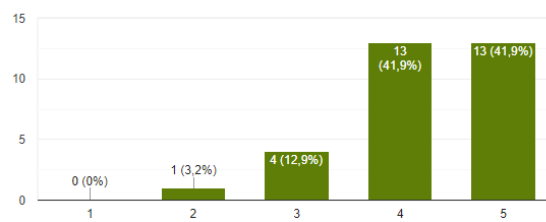
Hasil belajar mudah diketahui?

31 tanggapan



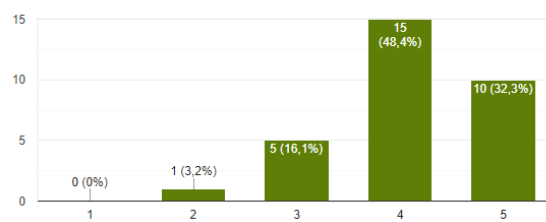
Aplikasi bermanfaat untuk belajar pemrograman java?

31 tanggapan

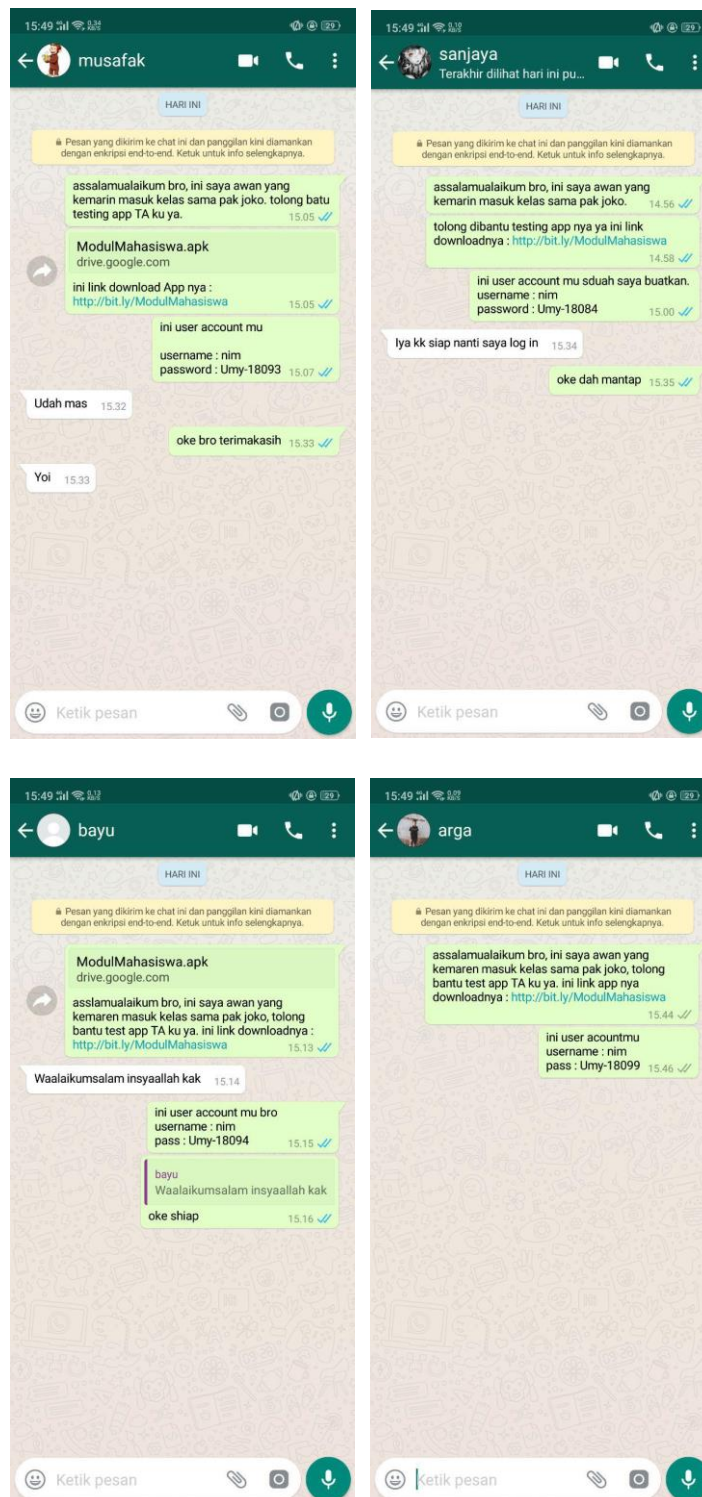


Aplikasi nyaman digunakan?

31 tanggapan



Lampiran 2 Real Testing Aplikasi



Lampiran 3 Kode Program *HTML* Modul Dosen

```
<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">

<meta name="author" content="CourseLab 3.0">

<meta name="description" content="CourseLab 3 e-learning content
editor">

<meta name="viewport" content="width=440, height=720, initial-
scale=0.9, user-scalable=1" />

<meta name="apple-mobile-web-app-capable" content="yes" />

<meta name="HandheldFriendly" content="true" />

<title></title>

<style type="text/css"></style>

<link href="courseimages/cl-fonts.css" rel="stylesheet" type="text/css"/>

<link href="courseimages/courselab.css" rel="stylesheet"
type="text/css"/>

<link href="images/course.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" language="javascript"
src="courseimages/jquery.js"></script>

<script type="text/javascript" language="javascript"
src="courseimages/jquery-ui.js"></script>

<script type="text/javascript" language="javascript"
src="courseimages/jquery.addons.js"></script>
```

```

<script type="text/javascript" src="courseimages/cl.js"></script>

<script type="text/javascript" src="courseimages/courselab.js"></script>

<script type="text/javascript" src="courseimages/lms.js"></script>

<script type="text/javascript" src="module.js"></script>

</head>

<body style="width: 100%; height: 100%; margin: 0;" onload="CL.Init();"
onunload="CL.Shutdown()" oncontextmenu="return false">

<div class="cl-container" style="width: 440px; height: 720px; margin: -
360px 0 0 -220px;">

<div id="boardFrame" class="cl-board-frame"></div>

<div class="cl-error-frame">

<div class="cl-error-browser">

<span class="cl-error-browser-string">Your browser is</span> <span
class="cl-error-browser-type"></span><br/>

<span class="cl-error-browser-text">Content cannot be played in this
browser. Please use another modern browser.</span>

</div>

<div class="cl-error-scorm-aborted">

SCORM session not found. <br/>

Message from LMS: Error. <span class="cl-error-scorm-
number"></span>. <span class="cl-error-scorm-reason"></span>. <br/>

Please close the module and open it again.

</div>

<div class="cl-error-aicc-aborted">

```

AICC session is not initialized.

Message from LMS: Error. .

Please close the module and open it again.

</div>

</div>

<div id="boardMask" class="cl-modal-mask"></div>

</div>

<div id="CL_POINTER" class="cl-pointer"></div>

<div class="cl-audio-container"><audio id="CLAudio1"></audio><audio id="CLAudio2"></audio><audio id="CLAudio3"></audio><audio id="CLAudio4"></audio><audio id="CLAudio5"></audio></div>

<div class="cl-lang-strings" style="display: none">

<div class="cl-lang-disabled-in-preview">This action is intentionally disabled in internal preview mode.</div>

<div class="cl-lang-external-url-disabled">Opening new window is intentionally blocked in internal preview mode.</div>

</div>

</body>

</html>

Lampiran 4 Kode Program *Javascript* Modul Dosen

```
var moduleID = '051007DP19';

var chapters = "Class";

var text_assign = "";

var arrBuffers = new Array(5);

var newarrBuffers = new Array(5);

var number=0;

var nError = "Network Error";

var nameSort = "<a href='#' onClick='nSort();'>Nama</a></p>";

var hpSort = "<a href='#' onClick='hSort();'>WhatsApp</a></p>";

var scoreSort = "<a href='#' onClick='sSort();'>Score</a></p>";

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_data(){  
    var surl="http://gflm.umy.ac.id/_data_mhs.php";  
    return surl;  
}
```

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

```
function callModuleID(){  
    return moduleID;  
}
```

```
function code(){
```



```
        return codeID;
    }

function codeh(){
    return codeIDH;
}

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

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

```
array[0]=moduleID;array[1]=studentId;array[2]=studentName;array[3]=st  
atus;
```

```
var Text = array_toText(array,100);
```

```
try
```

```
{
```

```
    localStorage.setItem(moduleID,Text);
```

```
    return "OK";
```

```
}
```

```
catch (err)
```

```
{
```

```
    alert('File saved error');
```

```
}
```

```
}
```

```
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++){  
        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 stringToHex (tmp) {  
    var str = "",  
        i = 0,  
        tmp_len = tmp.length,  
        c;  
  
    for (; i < tmp_len; i += 1) {  
        c = tmp.charCodeAt(i);  
        str += d2h(c) + ' ';  
    }  
    return str;  
}
```

```
function hexToString (tmp) {
```

```
var arr = tmp.split(' '),
    str = "",
    i = 0,
    arr_len = arr.length,
    c;

for (; i < arr_len; i += 1) {
    c = String.fromCharCode( h2d( arr[i] ) );
    str += c;
}

return str;
}

function d2h(d) {
    return d.toString(16);
}

function h2d(h) {
    return parseInt(h, 16);
}

function saveNext(){
```

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

```
function clearNext(){  
var data = read_file();  
var dataArray = data.split(',');  
var code = dataArray[0];  
if (code!=moduleID){localStorage.clear();}  
try {  
    localStorage.setItem("varnext", "false");  
}  
catch (e) {}  
};
```

```
function passValidation(url,json,object){  
$(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" });

            }

            if (response == "INVALID"){

                alert("Username atau Password tidak sah");

            }

        },

        error: function (error) {

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

        }

    });

});

}

```

```

function ShowAllData(code){

CLO['Reload'].Show({ bMaster: true });

var url = url_data();

```

```
var Course = code;

var json= "course_code=" + Course;

$(document).ready(function(){

    $.ajax({

        crossDomain: true,

        url: url,

        method: 'POST',

        cache: false,

        dataType: 'xml',

        data: json,

        success: function (xml) {

            var data = parseXML(xml);

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

            if (data==""){

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

                alert("Data tidak ditemukan");

                var arrBuffers = new Array(5);

            }

            else {showAll(data);}

        },

        error: function (error) {

            alert(nError);

        }

    });

});
```



```

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

function showAll(data){
    var array = data.split(';');
    var text = "<body>" + css() + "<table id='data'><th>No</th>" +
    "<th>" + nameSort + "</th><th>" + hpSort + "</th><th>Aktivitas</th>" +
        "<th>" + scoreSort + "</th>";
    g_arVars['bufferHTML'] = text;
    for (row=0;row<(array.length-1);row++){
        var col = array[row].split(';');
        getAllAssignment(col[0],col[1],col[2],(array.length-1));
    }
}

function nSort(){
    viewSort(1,1);
}

```

```
function hSort(){  
  
viewSort(2,2);  
  
}
```

```
function sSort(){  
  
viewSort(4,4);  
  
}
```

```
function parseXML(xml){  
  
var document = "";  
  
var tabel = xml.getElementsByTagName("coloumn");  
  
var informasi = "";  
  
var baris, kolom, score;  
  
for (baris = 0;baris < tabel.length; baris++){  
  
    satubaris = tabel[baris];  
  
    isibaris=satubaris.attributes;  
  
    buffer = [];  
  
    for (kolom =0;kolom<isibaris.length;kolom++){  
  
        if (isibaris[kolom].nodeName == "Phone")  
  
            {buffer[0]=isibaris[kolom].nodeValue};  
  
        if (isibaris[kolom].nodeName == "Nim")  
  
            {buffer[1]=isibaris[kolom].nodeValue};  
  
    }  
  
}
```

```
        if (isibaris[kolom].nodeName == "Nama")
            {buffer[2]=isibaris[kolom].nodeValue};
    }
    informasi += buffer[0]+","+buffer[1]+","+buffer[2];
    informasi += ";";
}
return informasi;
}

function getAllAssignment(phone,nim,name,max){
var course = g_arVars['kode'];
var url = url_send();
var json= "user_id=" + nim + "&" + "course_code=" + course;
$(document).ready(function(){
    $.ajax({
        crossDomain: true,
        url: url,
        method: 'POST',
        dataType: 'text',
        data: json,
        success: function (response) {
            var dom = response;
```

```
        getScore(dom,phone,name,max);
    },
    error: function (error) {
        alert(nError);
    }
});
});
}

function updateCode(kode){
var text = read_file();

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

array[4] = kode;

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

try {

    localStorage.setItem(moduleID,Text);

    return "Validation is done";

}

catch(err) {

    alert('File saved error');

}

}
```

```
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('File saved error');  
    }  
}
```

```
function store_data(chapter, text)  
{  
    var dom = g_arVars['bufferDOM'];  
    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;
array[counter + 1] = text;

for(i=0;i<array.length;i++){
    Textfilebaru += array[i] + ',';
}

try {
    localStorage.setItem(moduleID,Textfilebaru);
    alert("Data saved");
    return "OK";
}
```

```
catch (err) {  
    alert('File saved error');  
}  
}  
  
function assignment(chapter)  
{  
    var result = "";  
    var textfile = read_file();  
    var array = textfile.split(',');  
    var i=0;  
    var counter = "true";  
    while (counter=="true")  
    {  
        if (array[i]==chapter)  
        {  
            var text = array[i+1];  
            break;  
        }  
        i++;  
        if (array[i]=="*"){break;}  
        if (i==99){break;}  
    }  
}
```

```
    }  
  
    return text;  
}  
  
function getStudentReport(NIM){  
    var Course = moduleID;  
  
    var url = url_send();  
  
    var passvar= "user_id=" + NIM + "&" + "course_code=" + Course;  
  
    ShowObject("IMG_13",",infinite");  
  
    $(document).ready(function(){  
        $.ajax({  
            crossDomain: true,  
            url: url,  
            method: 'POST',  
            dataType: 'text',  
            data: passvar,  
            success: function (response) {  
                g_arVars['bufferDOM']=response;  
            },  
            error: function (error) {  
                alert(nError);  
            }  
        })  
    })  
}
```



```
    });  
});  
}  
  
function getStudentData(){  
    var url = url_data();  
    var Course = moduleID;  
    var passvar= "course_code=" + Course  
    $(document).ready(function(){  
        $.ajax({  
            crossDomain: true,  
            url: url,  
            method: 'POST',  
            type: 'text',  
            data: passvar,  
            success: function (response) {  
                var text = response;  
                ViewerData.innerHTML = parsXML(text);  
            },  
            error: function (error) {  
                alert(nError);  
            }  
        })  
    });  
}
```

```
    });  
  });  
}  
  
function getAllScore(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',  
      type: 'text',  
      data: passvar,  
      success: function (response) {  
        findScore(response);  
      },  
      error: function (error) {  
        alert(nError);  
      }  
    });  
  });  
}
```

```
});  
  
}  
  
function css() {  
    var text = "";  
    text += "<style>"+  
        "table {border: 1px solid lightgrey; background-color: lightblue;  
width: 100%; font-size = 22px;}"+  
        "th {border: 1px solid lightgrey; text-align: center;}"+  
        "td {border: 1px solid lightgrey; background-color: white; color:  
black; text-align: left;}"+  
        "</style>";  
    return text;  
}  
  
function startFrame(NIM){  
    var sNIM = NIM.toString();  
    var nim = sNIM.substring(5);  
    g_arVars['bufferNIM']=nim;  
    getStudentReport(nim);  
}  
  
function getScore(dom,phone,name,max){
```

```

number++;

//var text = $(dom).text();

var text = dom;

var chapter = localStorage.getItem("thischapter");

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

arrBuffers[number] = new Array(5);

arrBuffers[number][0]=number;

arrBuffers[number][1]=name;

arrBuffers[number][2]=phone;

var WA = "<a href='https://api.whatsapp.com/send?phone=+62";

phone=phone.substr(1);

    g_arVars['bufferHTML'] += " <tr><td>" +number+ "</td>" +
                                "<td>" +name+ "</td>" +
                                "<td>" +WA+phone+ ">"+"0"+phone+ "</a></td>";

arrBuffers[number][3]=chapter;

arrBuffers[number][4]=0;

if (number > (max-1)){

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

    if (cArray.length>=4){

        for (ci=4;ci<cArray.length+1;ci++){

            if (array[ci] == chapter)

                {

```

```

                                g_arVars['bufferHTML'] +=
"<td>" + array[ci] + "</td>";

                                g_arVars['bufferHTML'] +=
"<td>" + array[ci+1] + "</td>";

                                arrBuffers[number][4] = array[ci+1];

                                break;

                                }

                                if (array[ci] == "*" ) { break; }

                                if (ci >= 99) { break; }

                                }

                                }

                                g_arVars['bufferHTML'] += "<tr>";

viewer.innerHTML = g_arVars['bufferHTML'];

                                number=0;

                                }

else {

                                if (array.length >= 4 ) {

                                        for (c=4; c < array.length+1; c++) {

                                                if (array[c] == chapter)

                                                        {

                                                                g_arVars['bufferHTML'] +=
"<td>" + array[c] + "</td>";

                                                                g_arVars['bufferHTML'] +=
"<td>" + array[c+1] + "</td>";

```

```

arrBuffers[number][4]=array[c+1];

break;

}

if (array[c] == "*" ){break;}

if (c>=99){break;}

}

}

}

}

function viewSort(vara,vabe){

var text = "<body>" + css() + "<table id='data'>" +

    "<th>No</th>" +

    "<th>" + nameSort + "</th>" +

    "<th>" + hpSort + "</th>" +

    "<th>Aktivitas</th>" +

    "<th>" + scoreSort + "</th>";

var WA = "<a href='https://api.whatsapp.com/send?phone=+62'";

if (vara==4){

    newarrBuffers = arrBuffers.sort(function(a,b){return a[vara] <

b[vabe]?1:-1;});

}

if (vara==1) {

```

```

newarrBuffers = arrBuffers.sort(function(a,b){
    return a[vara] > b[vabe] ? 1 : a[vara] < b[vabe] ? -1 : 0;
});
}
if (vara==2) {
    newarrBuffers = arrBuffers.sort(function(a,b){return a[vara] -
b[vabe]});
}
for (i=0;i<newarrBuffers.length-1;i++){
    var phone=newarrBuffers[i][2];
    phone=phone.substr(1);
    text += "<tr>" +
        "<td>" + (i+1) + "</td>" +
        "<td>" + newarrBuffers[i][1] + "</td>" +
        "<td>" + WA + phone + ">" + "0" + phone + "</a></td>" +
        "<td>" + newarrBuffers[i][3] + "</td>" +
        "<td>" + newarrBuffers[i][4] + "</td>" +
        "</tr>";
}
text += "</table></body>";
viewer.innerHTML = text;
arrBuffers = newarrBuffers;
number=0;

```

```
}

```

Lampiran 5 Kode Program *HTML* Modul Mahasiswa

```
<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">

<meta name="author" content="CourseLab 3.0">

<meta name="description" content="CourseLab 3 e-learning content
editor">

<meta name="viewport" content="width=440, height=720, initial-
scale=0.9, user-scalable=1" />

<meta name="apple-mobile-web-app-capable" content="yes" />

<meta name="HandheldFriendly" content="true" />

<title></title>

<style type="text/css"></style>

<link href="courseimages/cl-fonts.css" rel="stylesheet" type="text/css"/>

<link href="courseimages/courselab.css" rel="stylesheet"
type="text/css"/>

<link href="images/course.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" language="javascript"
src="courseimages/jquery.js"></script>

<script type="text/javascript" language="javascript"
src="courseimages/jquery-ui.js"></script>

```



```
<script type="text/javascript" language="javascript"
src="courseimages/jquery.addons.js"></script>
```

```
<script type="text/javascript" src="courseimages/cl.js"></script>
```

```
<script type="text/javascript" src="courseimages/courselab.js"></script>
```

```
<script type="text/javascript" src="courseimages/lms.js"></script>
```

```
<script type="text/javascript" src="module.js"></script>
```

```
</head>
```

```
<body style="width: 100%; height: 100%; margin: 0;" onload="CL.Init();"
onunload="CL.Shutdown()" oncontextmenu="return false">
```

```
<div class="cl-container" style="width: 440px; height: 720px; margin: -
360px 0 0 -220px;">
```

```
<div id="boardFrame" class="cl-board-frame"></div>
```

```
<div class="cl-error-frame">
```

```
<div class="cl-error-browser">
```

```
<span class="cl-error-browser-string">Your browser is</span> <span
class="cl-error-browser-type"></span><br/>
```

```
<span class="cl-error-browser-text">Content cannot be played in this
browser. Please use another modern browser.</span>
```

```
</div>
```

```
<div class="cl-error-scorm-aborted">
```

```
SCORM session not found. <br/>
```

```
Message from LMS: Error. <span class="cl-error-scorm-
number"></span>. <span class="cl-error-scorm-reason"></span>. <br/>
```

```
Please close the module and open it again.
```

</div>

<div class="cl-error-aicc-aborted">

AICC session is not initialized.

Message from LMS: Error. .

Please close the module and open it again.

</div>

</div>

<div id="boardMask" class="cl-modal-mask"></div>

</div>

<div id="CL_POINTER" class="cl-pointer"></div>

<div class="cl-audio-container"><audio id="CLAudio1"></audio><audio id="CLAudio2"></audio><audio id="CLAudio3"></audio><audio id="CLAudio4"></audio><audio id="CLAudio5"></audio></div>

<div class="cl-lang-strings" style="display: none">

<div class="cl-lang-disabled-in-preview">This action is intentionally disabled in internal preview mode.</div>

<div class="cl-lang-external-url-disabled">Opening new window is intentionally blocked in internal preview mode.</div>

</div>

```
</body>
```

```
</html>
```

Lampiran 6 Kode Program *Javascript* Modul Mahasiswa

```
var moduleID = '051007DP19';
```

```
var thisChapter = "Class";
```

```
var text_assign = "";
```

```
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 read_file()
{
try
{
return localStorage.getItem(moduleID);
}
}
```

```
catch (err)
{
    return 'Course ID is not found';
}
}

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

    array[0]=moduleID;array[1]=studentId;array[2]=studentName;array[3]=st
atus;

    var Text = array_toText(array,100);

    try
    {
        localStorage.setItem(moduleID,Text);

        return "OK";
    }

    catch (err)
    {
        alert('File saved error');
```

```
    }  
}  
  
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=0;i<=number;i++){  
        if (i==number){  
            myArray[i] = '*';  
            text += myArray[i];  
            break;  
        }  
        myArray[i] = '*';  
        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 stringToHex (tmp) {  
    var str = "",  
        i = 0,  
        tmp_len = tmp.length,  
        c;  
  
    for (; i < tmp_len; i += 1) {  
        c = tmp.charCodeAt(i);  
        str += d2h(c) + ' ';  
    }  
    return str;  
}
```

```
function hexToString (tmp) {  
    var arr = tmp.split(' '),  
        str = "",  
        i = 0,  
        arr_len = arr.length,  
        c;  
  
    for (; i < arr_len; i += 1) {
```



```
        c = String.fromCharCode( h2d( arr[i] ) );  
        str += c;  
    }  
    return str;  
}
```

```
function d2h(d) {  
    return d.toString(16);  
}
```

```
function h2d (h) {  
    return parseInt(h, 16);  
}
```

```
function passValidation(url,json,nim){  
    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();

                synchronize(nim);

                CL.Navigation.GoTo({ sTargetType: "slide", sTargetDir:
"next" });

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

            }

            if (response == "INVALID"){

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

                alert("Username atau Password tidak sah");

            }

        },

        error: function (error) {

            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('File saved error');

}

}

function store_data(chapter, text)

{

var textfile = read_file();

array = textfile.split(',');

var counter = 0;

for(i=4;i<array.length;i++)
```

```
{  
  if ((array[i]=='*')(array[i]==chapter))  
  {  
    counter = i;  
    break;  
  }  
}  
  
var Textfilebaru = "";  
array[counter] = chapter;  
array[counter+1] = text;  
for(i=0;i<=array.length;i++){  
  if (i==array.length){  
    Textfilebaru += array[i];  
    break;  
  }  
  Textfilebaru += array[i] + ',';  
}  
  
try {  
  localStorage.setItem(moduleID,Textfilebaru);  
}  
  
catch (err) {  
  alert('File saved error');
```

```
    }  
}  
  
function updateScore(){  
    var currentScore=findScore(thisChapter);  
    var Q1 = CL.SCO.GetObjectiveScore({ sId: "Q1" });  
    var Q2 = CL.SCO.GetObjectiveScore({ sId: "Q2" });  
    var Q3 = CL.SCO.GetObjectiveScore({ sId: "Q3" });  
    var Q4 = CL.SCO.GetObjectiveScore({ sId: "Q4" });  
    var Q5 = CL.SCO.GetObjectiveScore({ sId: "Q5" });  
    var Q6 = CL.SCO.GetObjectiveScore({ sId: "Q6" });  
    var Q7 = CL.SCO.GetObjectiveScore({ sId: "Q7" });  
    var score = Q1+Q2+Q3+Q4+Q5+Q6+Q7;  
    if (score<currentScore){score=currentScore;}  
    CL.SCO.SetObjectiveScore({ sId: "total", sSrcId: "", bReplace: "replace",  
                               nScore: score });  
  
    store_data(thisChapter, score);  
}  
  
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 synchronize(NIM){

    getStudentReport(NIM);

}

function updateBothSide(){

    var sArray = localStorage.getItem("server").split(',');
```

```
//alert("s: "+localStorage.getItem("server"));

var lArray = localStorage.getItem("localm").split(',');

//alert("l: "+localStorage.getItem("localm"));

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 (sArray[s+1]>=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];

//alert("First: " + ntext);

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 (lArray[l+1]>=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];

//alert("Second: " + mtext);

var indx = 0;

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];

//alert("result: " + rtext);

localStorage.setItem(moduleID,rtext);

sendDataPost();

}

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) {

            try {

                localStorage.setItem("server",response);

                localStorage.setItem("localm",read_file());
```

```

        } catch(e){};

        updateBothSide();

    },

    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;

}

//scn

function findScored(chapter){

    var chapters = "Class";

    var textfile = dom;

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

    var text = "<body>" + css() +
"<table>"+<tr>"+array[2]+<tr>"+<th>No</th>"+
        "<th>Chapter</th><th>Score</th>";

    var chapter = chapters.split(',');

    for (c=0;c<chapter.length;c++){

        var i=0;

        var counter = "true";

        while (counter == "true")

        {

            if (array[i] == chapter[c])

            {

```

```

        var score = array[i+2];

        text +=
"<tr><td>"+(c+1)+"</td><td>"+chapter[c]+"</td><td>"+score+"</td></tr>";

        break;

    }

    i++;

    if (array[i]=="*"){break;}

    if (i==99){break;}

}

}

text += "</body></table>";

ClassdanPackage.innerHTML=text;

}

```

```

function findScore(chapter){

var score=0;

var textfile = read_file();

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

for (c=4;c<array.length;c++){

    if (array[c]==chapter){

        score=array[c+1];

    }

}

```

```
    }  
    return score;  
}
```