BAB V

PENUTUP

A. Kesimpulan

Berdasarkan hasil implementasi media pembelajaran biologi, maka dapat diambil kesimpulan sebagai berikut :

1. Media pembelajaran dibangun menggunakan Adobe Flash CS 6. Media pembelajaran berisi empat pilihan tampilan menu yaitu menu Materi, Latihan, Evaluasi dan Keluar. Pada menu materi menampilkan materi dari BAB 1 - BAB 9. Pada halaman menu latihan digunakan untuk menampilkan latihan yang meliputi latihan Bab 1 sampai dengan Latihan Bab 9. Sedangkan pada halaman menu evaluasi digunakan untuk menampilkan halaman yang berisi soal-soal evaluasi satu semester. Media pembelajaran biologi yang dibuat mampu menampilkan materi dalam bentuk teks, suara, animasi, dan sudah terdapat menu mengulang mengerjakan soal Latihan.

2. Hasil pengujian sistem yang dilakukan oleh responden menunjukkan bahwa media pembelajaran yang dibuat sudah layak digunakan. Hal ini ditunjukkan dengan hasil terbanyak yaitu, pengujian tampilan program 70% menjawab menarik, kemudahan memahami materi 63% menjawab mudah, kemudahan menjalankan program 50% menjawab sangat mudah dan 50% menjawab mudah, kelengkapan materi 73% menjawab lengkap, dan efektifitas media pembelajaran 80% menjawab efisien.

B. Saran

Saran yang dapat diberikan untuk pengembangan aplikasi media pembelajaran biologi yang selanjutnya adalah sebagai berikut :

1. Media pembelajaran juga ditambahkan animasi yang lebih menarik agar lebih maksimal dalam menyampaikan materi.

2. Admin dalam mengolah data soal dirancang melalui sistem dengan menggunakan database, sehingga tidak harus membuka file .xml-nya.

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LAMPIRAN

LAMPIRAN SCRIPT PROGRAM

1. Halaman Menu Awal : intro.fla

```
fscommand("fullscreen", "TRUE");

var bgm:Sound = new Sound();
bgm.loadSound('audio/judul.mp3',true);


import mx.transitions.Tween;
import mx.transitions.easing.*;


for (i=1;i<=4;i++){
      _root['btn'+i]._visible=false;
}

function animBtn(){
      btn1.judulTxt='Materi';
      btn2.judulTxt='Latihan';
      btn3.judulTxt='Evaluasi';
      btn4.judulTxt='Keluar';
      for (i=1;i<=4;i++){
           _root['btn'+i]._visible=true;
           new Tween(_root['btn'+i], "_x", Regular.easeOut,
950, 600, 0.5, true);
           new Tween(_root['btn'+i], "_y", Regular.easeOut,
200, (240+(i*70)), 0.5, true);
      }
}

setTimeout(animBtn,3000);

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      loadMovie('menu.swf',0);
}

on(release){
      loadMovie('esay2.swf',0);
}

on(release){
      fscommand('quit');
}
```

2. Halaman Materi Bab 1

```
Bab 1 sub 1

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab1A.mp3',true);
layar._visible=false;
loadMovie('b1-sb2.swf',0);

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}
loadMovie('b1-sb3.swf',0);

sub 2
var narasi:Sound = new Sound();
narasi.loadSound('audio/bab1Bperkecambahan.mp3',true);
layar._visible = false;

loadMovie('b1-sb3.swf',0);

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}


Sub 3

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab1C.mp3',true);
layar._visible=false;

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
```

```
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

Sub 4

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab1D.mp3',true);
layar._visible=false;

loadMovie('b1-sb5.swf',0);

sub 5

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}
stop();
```

3. Halaman Materi Bab 2

```
Bab 2
Sub 1

on(release){
     loadMovie('materi.swf',0);
}

on(release){
     gotoAndPlay(_currentframe+1);
     layar._visible = false;
     narasi.start(narasi.position / 1000);
}

on(release){
     stop();
     layar._visible=true;
     _root.narasi.stop();
}

loadMovie('b2-sb2.swf',0);

sub 2

on(release){
     loadMovie('materi.swf',0);
}

on(release){
     gotoAndPlay(_currentframe+1);
     layar._visible = false;
     narasi.start(narasi.position / 1000);
}

on(release){
     stop();
     layar._visible=true;
     _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab2B.mp3',true);
layar._visible=false;

loadMovie('b2-sb3.swf',0);



sub 3

on(release){
     loadMovie('materi.swf',0);
}
```

```
on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab2C.mp3',true);
layar._visible=false;

stop();
```

4. Halaman Materi Bab 3

```
Bab 3 sub 1

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab3A.mp3',true);
layar._visible=false;

loadMovie('b3-sb2.swf',0);

sub 2

loadMovie('b3-sb3.swf',0);

on(release){
      loadMovie('materi.swf',0);
}

on(release){
```

```
        gotoAndPlay(_currentframe+1);
        layar._visible = false;
        narasi.start(narasi.position / 1000);
}

on(release){
        stop();
        layar._visible=true;
        _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab3B.mp3',true);
layar._visible=false;

loadMovie('b3-sb3.swf',0);

sub 3

loadMovie('b3-sb4.swf',0);

on(release){
        loadMovie('materi.swf',0);
}

on(release){
        gotoAndPlay(_currentframe+1);
        layar._visible = false;
        narasi.start(narasi.position / 1000);
}

on(release){
        stop();
        layar._visible=true;
        _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab3C.mp3',true);
layar._visible=false;

loadMovie('b3-sb4.swf',0);
sub 4

on(release){
        loadMovie('materi.swf',0);
}
on(release){
        gotoAndPlay(_currentframe+1);
        layar._visible = false;
        narasi.start(narasi.position / 1000);
}
```

```
on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab3D.mp3',true);
layar._visible=false;

loadMovie('b3-sb5.swf',0);

sub 5

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab3E.mp3',true);
layar._visible=false;

stop();
```

5. Halaman Materi Bab 4

```
Bab 4

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
       root.narasi.stop();
```

```
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab4A.mp3',true);
layar._visible=false;

loadMovie('b4-sb2.swf',0);

sub 2

on(release){
    loadMovie('materi.swf',0);
}

on(release){
    gotoAndPlay(_currentframe+1);
    layar._visible = false;
    narasi.start(narasi.position / 1000);
}

on(release){
    stop();
    layar._visible=true;
    _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab4B.mp3',true);
layar._visible=false;

loadMovie('b4-sb3.swf',0);


sub 3

on(release){
    loadMovie('materi.swf',0);
}

on(release){
    gotoAndPlay(_currentframe+1);
    layar._visible = false;
    narasi.start(narasi.position / 1000);
}

on(release){
    stop();
    layar._visible=true;
    _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab4C.mp3',true);
```

```
layar._visible=false;

loadMovie('b4-sb3.swf',0);


sub 4

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab4D.mp3',true);
layar._visible=false;

stop();
```

6. Halaman Materi Bab 5

```
Bab 5

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab5A.mp3',true);
layar._visible=false;
```

```
loadMovie('b5-sb2.swf',0);

sub 2

on(release){
     loadMovie('materi.swf',0);
}

on(release){
     gotoAndPlay(_currentframe+1);
     layar._visible = false;
     narasi.start(narasi.position / 1000);
}

on(release){
     stop();
     layar._visible=true;
     _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab5B.mp3',true);
layar._visible=false;

loadMovie('b5-sb3.swf',0);


sub 3

on(release){
     loadMovie('materi.swf',0);
}

on(release){
     gotoAndPlay(_currentframe+1);
     layar._visible = false;
     narasi.start(narasi.position / 1000);
}

on(release){
     stop();
     layar._visible=true;
     _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab5C.mp3',true);
layar._visible=false;

loadMovie('b5-sb4.swf',0);
```

```
sub 4

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab5D.mp3',true);
layar._visible=false;

loadMovie('b5-sb5.swf',0);



sub 5

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab5E.mp3',true);
layar._visible=false;

loadMovie('b5-sb6.swf',0);
```

```
sub 6

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab5F.mp3',true);
layar._visible=false;

stop();
```

7. Halaman Materi Bab 6

```
Bab 6

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab6A.mp3',true);
layar._visible=false;

loadMovie('b6-sb2.swf',0);

sub 2
```

```
on(release){
     loadMovie('materi.swf',0);
}

on(release){
     gotoAndPlay(_currentframe+1);
     layar._visible = false;
     narasi.start(narasi.position / 1000);
}

on(release){
     stop();
     layar._visible=true;
     _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab6B.mp3',true);
layar._visible=false;

loadMovie('b6-sb3.swf',0);


sub 3

on(release){
     loadMovie('materi.swf',0);
}

on(release){
     gotoAndPlay(_currentframe+1);
     layar._visible = false;
     narasi.start(narasi.position / 1000);
}

on(release){
     stop();
     layar._visible=true;
     _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab6C.mp3',true);
layar._visible=false;

loadMovie('b6-sb4.swf',0);


sub 4

on(release){
     loadMovie('materi.swf',0);
}
```

```
on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab6D.mp3',true);
layar._visible=false;

loadMovie('b6-sb5.swf',0);



sub 5

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}
on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab6E.mp3',true);
layar._visible=false;

loadMovie('b6-sb6.swf',0);



sub 6

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
```

```
        layar._visible = false;
        narasi.start(narasi.position / 1000);
}

on(release){
        stop();
        layar._visible=true;
        _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab6F.mp3',true);
layar._visible=false;

stop();
```

8. Halaman Materi Bab 7

```
Bab 7

on(release){
        loadMovie('materi.swf',0);
}

on(release){
        gotoAndPlay(_currentframe+1);
        layar._visible = false;
        narasi.start(narasi.position / 1000);
}

on(release){
        stop();
        layar._visible=true;
        _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab7A.mp3',true);
layar._visible=false;

loadMovie('b7-sb2.swf',0);

sub 2

on(release){
        loadMovie('materi.swf',0);
}

on(release){
        gotoAndPlay(_currentframe+1);
        layar._visible = false;
        narasi.start(narasi.position / 1000);
```

```
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab7B.mp3',true);
layar._visible=false;

loadMovie('b7-sb3.swf',0);

sub 3

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}
on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab7C.mp3',true);
layar._visible=false;

loadMovie('b7-sb4.swf',0);

sub 4

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
       root.narasi.stop();
```

```
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab7D.mp3',true);
layar._visible=false;

loadMovie('b7-sb5.swf',0);

sub 5

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab7E.mp3',true);
layar._visible=false;

stop();
```

9. Halaman Materi Bab 8

```
Bab 8

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
```

```
narasi.loadSound('audio/bab8A.mp3',true);
layar._visible=false;

loadMovie('b8-sb2.swf',0);

sub 2

on(release){
     loadMovie('materi.swf',0);
}

on(release){
     gotoAndPlay(_currentframe+1);
     layar._visible = false;
     narasi.start(narasi.position / 1000);
}

on(release){
     stop();
     layar._visible=true;
     _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab8B.mp3',true);
layar._visible=false;

stop();
```

10. Halaman Materi Bab 9

```
Bab 9

on(release){
     loadMovie('materi.swf',0);
}

on(release){
     gotoAndPlay(_currentframe+1);
     layar._visible = false;
     narasi.start(narasi.position / 1000);
}

on(release){
     stop();
     layar._visible=true;
     _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab9A.mp3',true);
layar._visible=false;
```

```
loadMovie('b9-sb2.swf',0);

sub 2

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab9B.mp3',true);
layar._visible=false;

loadMovie('b9-sb3.swf',0);


sub 3

on(release){
      loadMovie('materi.swf',0);
}

on(release){
      gotoAndPlay(_currentframe+1);
      layar._visible = false;
      narasi.start(narasi.position / 1000);
}

on(release){
      stop();
      layar._visible=true;
      _root.narasi.stop();
}

var narasi:Sound = new Sound();
narasi.loadSound('audio/bab9C.mp3',true);
layar._visible=false;

stop();
```

11. Halaman Evaluasi Esay

```
Esay

on(release){
      loadMovie('intro.swf',0);
}

stop();
import mx.styles.CSSStyleDeclaration;
_global.styles.TextInput = new CSSStyleDeclaration();
_global.styles.TextInput.setStyle("fontSize", 20);
_global.styles.TextInput.setStyle("fontFamily", "Kristen
ITC");//Harlow Solid Italic");
_global.styles.TextInput.setStyle("color", 0xffffff);
_global.styles.TextInput.setStyle("borderStyle", "alert");
_global.styles.TextInput.setStyle("backgroundColor",
0x168264);

//===


function xmlReadValue(src:XMLNode, row:Number,
col:Number):String {
      return
src.childNodes[row].childNodes[col].childNodes[0].nodeValue;
}

var jawabx:Array = new Array();
if (soalSalah===undefined){
      var soalSalah:Array = new Array();
}
if (getSoal===undefined){
      var getSoal:Array = new Array();
}
var suffleA:Array = ["0","1", "2", "3", "4"];//, "5"];//, "6",
"7", "8",
"9","10","11","12","13","14","15","16","17","18","19"];
ShuffleArray(suffleA);
ShuffleArray(suffleA);
trace(suffleA);

function ShuffleArray(input:Array){
      for (var i = input.length-1; i >=0; i--){
           var randomIndex:Number =
Math.floor(Math.random()*(i+1));
           var itemAtIndex:Object = input[randomIndex];
           input[randomIndex] = input[i];
           input[i] = itemAtIndex;
      }
}

function trim(s:String):String
{
```

```
      //var hasil;
    var j, strlen, k;
      strlen = s.length
    j = 0;
    while (s.charAt(j) == " ")
    {
        j++
    }
    if(j)
    {
        s = substring(s,j+1, strlen)
        if(j == strlen) return this;
    }

    var k = s.length - 1;
    while(s.charAt(k) == " ")
    {
        k--
    }
    s = substring(s,1,k+1)
    return s;
}


function soal(){
      jawabx = new Array();
      trace('soalSalah :'+soalSalah);
      if (sS!='ulangS'){
            getSoal = suffleA;
            } else {
                  getSoal = soalSalah;
                  sS = 'not';
            }
      trace('getsoal :'+getSoal);
      btnUlangi._visible=false;
      var soalx:Array = new Array();
      var nnn:String = 'bidal';
      //var hasilevaluasi:String = '';
      //var skorevaluasi:Number = 0;
      var xml = new XML();
      xml.ignoreWhite = true;
      xml.load("xml/isian.xml");
      xml.onLoad = function(success) {
            item = this.firstChild;
            n = item.childNodes.length;
            for(i=0;i<5;i++){

                  if (getSoal[i]!=undefined){

            xxsoal = xmlReadValue(item, getSoal[i], 0);
            soalx.push(xxsoal);
            xxkunci = xmlReadValue(item, getSoal[i], 1);
                  jawabx[i]=xxkunci;
```

```
                }
        if(jawabx[i]==undefined) {jawabx.splice(i,1);}
                trace('jawab :'+jawabx);
            }
        for(i=0;i<soalx.length;i++){
    duplicateMovieClip(msoal,'msoal'+i,_root.getNextHighestD
epth());
                _root['msoal'+i]._y = i*80+150;//103+200;
                _root['msoal'+i].teks = soalx[i];
                _root['msoal'+i].soalke2.text=i+1;
                trace('255252'+_root['msoal'+i].soalke2);
            }
        dlgselesaievaluasi._visible = false;
        dlgselesaievaluasi.txthasilevaluasi = '';
    }
}

soal();
//trace('jawabcek'+jawabx[1]);

function cekjawaban(){
    soalSalah.length = 0;
    btnUlangi._visible=true;
    hasilevaluasiii='';
    kuncis = '';
    jawabs = '';
    soalke = '';
    trace('getsoal :'+getSoal);
    trace('soalSalah :'+soalSalah);
    trace('jawab :'+jawabx);
    var skorevaluasi:Number = 0;
    var jwbkunci:String='';
    for(i=0;i<5;i++){
            var jwbuser:String = '';
            jwbuser = _root['msoal'+i].jawab.text;
            trace('jawab : '+jwbuser);
            jwbkunci = jawabx[i];
            trace('asd'+jwbuser);
            jwbkunci = trim(jwbkunci);
            trace('asd'+jwbkunci);
            if(jwbkunci == jwbuser){
            hasilevaluasiii+= ('V\n');//('benar\n');
                skorevaluasi+=20;
            }else{
            soalSalah[i]=suffleA[i];
            trace('salah :'+soalSalah[i]);
            hasilevaluasiii+= ('X\n');//('salah\n');
            }
            if (jwbuser!=''){
                jawabs+= jwbuser+'\n';
                } else {
                    jawabs+='Kosong\n';
                    }
```

```
                kuncis+= jwbkunci+'\n';
                soalke+=(i+1)+'\n';
      }
      for(i=0;i<10;i++){
                removeMovieClip(_root['msoal'+i]);
      }

      //dlgselesaievaluasi._visible = true;
      dlgselesaievaluasi._visible = true;
      dlgselesaievaluasi.txtskor = skorevaluasi;
      dlgselesaievaluasi.txthasilevaluasi = hasilevaluasiii;
      dlgselesaievaluasi.txtkuncis = kuncis;
      dlgselesaievaluasi.txtjwb = jawabs;
      dlgselesaievaluasi.txtno = soalke;
}

btncekjawabevaluasi.onRelease = function(){
      cekjawaban();
}

onClipEvent (load) {
      this._visible = false;
}

on(release){
      loadMovie('intro.swf',0);
}

on(release){
      _root.soal();
      }

on(release){
      var sS:String = 'ulangS';
      soal();
      }
```

12.   Halaman Evaluasi Pilihan Ganda

```
Pilgan

stop();
import mx.transitions.Tween;
import mx.transitions.easing.*;
blitz.gotoAndPlay(2);
wndGameOver._visible = false;
var _levelDialog = 2;

var coin:Sound = new Sound();
coin.attachSound('ding');
var checks:Array = new Array();
var soals:String = '';
var jawabs:String = '';
var kuncis:String = '';
```

```
var obj = _root;
var kunci = '';
var idxsoal:Number = 0;
//var jmlSoal:Number = 15;
var jmlSoal:Number = 0;
var jmlBenar:Number = 0;
var jmlSalah:Number = 0;
var inGame:Boolean = true;
var xxx:Number = 1;
var mcidx:Number = 1;
//rand
var za:Array = new Array("0","1", "2", "3", "4", "5", "6",
"7", "8",
"9","10","11","12","13","14","15");//,"16","17","18","19","20"
,"21","22","23","24","25","26","27","28","29");
ShuffleArray(za);
//var zb:Array = za.sort(shuffle);
trace(za);

var kuncis:String = '';
var jawabs:String = '';
var soals:String = '';
var pilihan:Array = new Array("A",'B','C','D','Kosong');
function xmlReadValue(src:XMLNode, row:Number,
col:Number):String {
      return
src.childNodes[row].childNodes[col].childNodes[0].nodeValue;
}

function ShuffleArray(input:Array){
      for (var i = input.length-1; i >=0; i--){
            var randomIndex:Number =
Math.floor(Math.random()*(i+1));
            var itemAtIndex:Object = input[randomIndex];
            input[randomIndex] = input[i];
            input[i] = itemAtIndex;
      }
}

// berisoal asli
/*
function beriSoal():Void {

      //_root['btnUang'+soalKe]._visible = false;
      sta = '';
      var xml = new XML();
      xml.ignoreWhite = true;
      xml.load("pilihanganda.xml");
      xml.onLoad = function(success) {
            item = this.firstChild;
            n = item.childNodes.length;
            //jmlSoal = n;
            jmlSoal = 5;//n
```

```
                idxsoal++;
                for (i=0; i<=mcidx; i++) {
                        removeMovieClip(_root['box'+mcidx]);
                }

                katasekarang = xmlReadValue(item, idxsoal, 0);
                mcidx = 0;
                mcidx++;
for (i=1; i<=4; i++) {
        obj["ans"+i].teks = xmlReadValue(item, idxsoal, i);
                        obj["ans"+i].idx = i;
                        obj["ans"+i].onRelease = function() {
                                xx = this.teks;
                                jawab(this.idx);
                        };
                        obj['ans'+i].onRollOver = function() {
                                this.gotoAndPlay(2);
                                coin.start();
                        };
                        obj['ans'+i].onRollOut = function() {
                                this.gotoAndPlay(1);
                        };
                }
                kunci = xmlReadValue(item, idxsoal, 5);
        };
}
*/

function beriSoal():Void {

        //_root['btnUang'+soalKe]._visible = false;
        sta = '';
        var xml = new XML();
        xml.ignoreWhite = true;
        xml.load("pilihanganda.xml");
        xml.onLoad = function(success) {
                item = this.firstChild;
                n = item.childNodes.length;
                //jmlSoal = n;
                jmlSoal = 10;//n
                idxsoal++;
                soals+= idxsoal+'\n';
_root.soalke = 'Soal ke '+idxsoal+' Dari '+(jmlSoal)+' soal';

                for (i=0; i<=mcidx; i++) {
                        removeMovieClip(_root['box'+mcidx]);
                }
                trace ('zaidsoal :'+za[idxsoal]);
                soalId = za[idxsoal];
                trace('soalid :'+soalId);
        katasekarang = xmlReadValue(item, za[idxsoal], 0);
                mcidx = 0;
                mcidx++;
```

```
blank_height  = tekssoal._height;


//Setting Text to text field
_root.tekssoal = katasekarang;
tekssoal.autoSize = "center";
tekssoal._y = tekssoal._y + (blank_height  -tekssoal._height)
/ 2;

          for (i=1; i<=4; i++) {
          obj["ans"+i].teks = xmlReadValue(item, za[idxsoal],
i);
                obj["ans"+i].idx = i;
                obj["ans"+i].onRelease = function() {
                      xx = this.teks;
                      jawab(this.idx);
                };
                obj['ans'+i].onRollOver = function() {
                      this.gotoAndPlay(2);
                      coin.start();
                };
                obj['ans'+i].onRollOut = function() {
                      this.gotoAndPlay(1);
                };
          }
          kunci = xmlReadValue(item, za[idxsoal], 5);

     };
     trace('idxsoal ='+idxsoal);
}
//=========== ens soal
function showbuttons(stat:Boolean) {
     for (i=1; i<=4; i++) {
          obj["ans"+i]._visible = stat;
          obj["lbl"+i]._visible = stat;
     }
}

//jwbasli
/*
function jawab(jawaban:Boolean):Void {
     if (!inGame) {
          return;
     }
     var nrs:Sound = new Sound();
     trace(jawaban+'---'+kunci);
     if (jawaban == kunci) {
          //sta = 'Kamu benar';
          //nrs.loadSound('sounds/menu/kamu benar.mp3',true);
          //loadMovieNum('kuis.lanjut.swf', _levelDialog);
          jmlBenar++;
          checks.push(true);
```

```
            //trace(idxsoal+' '+jmlSoal);
            //idxsoal = 5;
            if (idxsoal<(jmlSoal-1)) {

                    setTimeout(beriSoal,2500);
            } else {
                    setTimeout(selesai,2500);
            }

      } else {
            sta = 'Kamu salah';
            nrs.loadSound('sounds/menu/coba lagi ya.mp3',true);

      }

}
*/
var soalSalah:Array = new Array();
var sS:Number = 0;

function jawab(jawaban:Boolean):Void {
      if (!inGame) {
            return;
      }
      var nrs:Sound = new Sound();
      trace(jawaban+'---'+kunci);
      jawabs+=pilihan[jawaban-1]+'\n';
      kuncis+=pilihan[kunci-1]+'\n';
      if (jawaban == kunci) {
            //sta = 'Kamu benar';
            //nrs.loadSound('sounds/menu/kamu benar.mp3',true);
            //loadMovieNum('kuis.lanjut.swf', _levelDialog);
            jmlBenar++;
            checks.push(true);

            //trace(idxsoal+' '+jmlSoal);
            //idxsoal = 5;
      } else {
            //sta = 'Kamu salah';
            //nrs.loadSound('sounds/menu/coba lagi
ya.mp3',true);
            soalSalah[jmlSalah]=soalId;
            trace('soalsalah :'+soalSalah[jmlSalah]);
            jmlSalah++;
      }

      if (idxsoal<(jmlSoal)) {

                    setTimeout(beriSoal,100);
            } else {
                    setTimeout(selesai,100);
            }
```

```
}

//=============== End jwb
function selesai():Void {
      trace(soalSalah);
      gotoAndStop(2);
}


beriSoal();

stop();

txtb = jmlBenar;
txts = jmlSalah;
txtno = soals;
txtkuncis = kuncis;
txtjwb = jawabs
var bnilai = jmlBenar*10;
txtNilai = bnilai;
if (jmlSalah==0){
      _root.btnUlangiSalah._visible=false;
}

on(release){
      gotoandstop(3);
      }

stop();
var bgm:Sound = new Sound();
bgm.loadSound('suara/bg/bg1.mp3',true);
import mx.transitions.Tween;
import mx.transitions.easing.*;
blitz.gotoAndPlay(2);
wndGameOver._visible = false;
var _levelDialog = 2;

var coin:Sound = new Sound();
coin.attachSound('ding');
var checks:Array = new Array();
var soals:String = '';
var jawabs:String = '';
var kuncis:String = '';
var obj = _root;
var kunci = '';
var idxsoal:Number = 0;
//var jmlSoal:Number = 15;
var jmlSoal:Number = 0;
var jmlBenar:Number = 0;
//var jmlSalah:Number = 0;
var inGame:Boolean = true;
var xxx:Number = 1;
var mcidx:Number = 1;
```

```
//rand
var za:Array = new Array("0","1", "2", "3", "4", "5", "6",
"7", "8",
"9","10","11","12","13","14","15","16","17","18","19","20","21
","22","23","24","25","26","27","28","29","30");
ShuffleArray(za);
ShuffleArray(za);
ShuffleArray(za);
//var zb:Array = za.sort(shuffle);
trace(za);
//trace(zb);
//trace(zb[1]);
//END rand

var kuncis:String = '';
var jawabs:String = '';
var soals:String = '';
var pilihan:Array = new Array("A",'B','C','D','Kosong');
function xmlReadValue(src:XMLNode, row:Number,
col:Number):String {
     return
src.childNodes[row].childNodes[col].childNodes[0].nodeValue;
}


function ShuffleArray(input:Array){
     for (var i = input.length-1; i >=0; i--){
          var randomIndex:Number =
Math.floor(Math.random()*(i+1));
          var itemAtIndex:Object = input[randomIndex];
          input[randomIndex] = input[i];
          input[i] = itemAtIndex;
     }
}

// berisoal asli
/*
function beriSoal():Void {

     //_root['btnUang'+soalKe]._visible = false;
     sta = '';
     var xml = new XML();
     xml.ignoreWhite = true;
     xml.load("pilihanganda.xml");
     xml.onLoad = function(success) {
          item = this.firstChild;
          n = item.childNodes.length;
          //jmlSoal = n;
          jmlSoal = 5;//n
          idxsoal++;
          for (i=0; i<=mcidx; i++) {
               removeMovieClip(_root['box'+mcidx]);
          }
```

```
            katasekarang = xmlReadValue(item, idxsoal, 0);
            //var sukukatas:Array = katasekarang.split(' ');
            mcidx = 0;
//trace(idxsoal+'-'+katasekarang);
            //for (i=0; i<sukukatas.length; i++) {
                    mcidx++;
                    //duplicateMovieClip(box, ('box'+i),
_root.getNextHighestDepth());
                    _root.tekssoal = katasekarang;//

            for (i=1; i<=4; i++) {
                    obj["ans"+i].teks = xmlReadValue(item,
idxsoal, i);

                    obj["ans"+i].idx = i;
                    obj["ans"+i].onRelease = function() {
                            xx = this.teks;

                            jawab(this.idx);

                    };
                    obj['ans'+i].onRollOver = function() {
                            this.gotoAndPlay(2);
                            coin.start();
                    };
                    obj['ans'+i].onRollOut = function() {
                            this.gotoAndPlay(1);
                    };
            }
            kunci = xmlReadValue(item, idxsoal, 5);
      };
}
*/
var newjmlSoal = jmlSalah;
jmlSalah =0;
function beriSoal():Void {

      //_root['btnUang'+soalKe]._visible = false;
      sta = '';
      var xml = new XML();
      xml.ignoreWhite = true;
      xml.load("pilihanganda.xml");
      xml.onLoad = function(success) {
            item = this.firstChild;
            n = item.childNodes.length;
            //jmlSoal = n;
            jmlSoal = newjmlSoal;//n
            idxsoal++;
            soals+= idxsoal+'\n';
            _root.soalke = 'Soal ke '+idxsoal+' Dari
'+(jmlSoal)+' soal';

            for (i=0; i<=mcidx; i++) {
```

```
                    removeMovieClip(_root['box'+mcidx]);
            }
            trace ('zaidsoal :'+soalSalah[idxsoal-1]);
            soalId = soalSalah[idxsoal-1];
            trace('soalid :'+soalId);
            katasekarang = xmlReadValue(item,
soalSalah[idxsoal-1], 0);

            mcidx = 0;
            mcidx++;
blank_height  = tekssoal._height;


//Setting Text to text field
_root.tekssoal = katasekarang;
//tekssoal.text = katasekarang;

//Adding autosize to text field
tekssoal.autoSize = "center";

//for Vertical Alignment
tekssoal._y = tekssoal._y + (blank_height  -tekssoal._height)
/ 2;

            for (i=1; i<=4; i++) {
                    obj["ans"+i].teks = xmlReadValue(item,
soalSalah[idxsoal-1], i);
                    obj["ans"+i].idx = i;
                    obj["ans"+i].onRelease = function() {
                            xx = this.teks;

                            jawab(this.idx);
                    };
                    obj['ans'+i].onRollOver = function() {
                            this.gotoAndPlay(2);
                            coin.start();
                    };
                    obj['ans'+i].onRollOut = function() {
                            this.gotoAndPlay(1);
                    };
            }
            kunci = xmlReadValue(item, soalSalah[idxsoal-1],
5);

      };
      trace('idxsoal ='+idxsoal);
}
//========== ens soal
function showbuttons(stat:Boolean) {
      for (i=1; i<=4; i++) {
            obj["ans"+i]._visible = stat;
            obj["lbl"+i]._visible = stat;
      }
```

```
}

//jwbasli
/*
function jawab(jawaban:Boolean):Void {
      if (!inGame) {
            return;
      }
      var nrs:Sound = new Sound();
      trace(jawaban+'---'+kunci);
      if (jawaban == kunci) {

            jmlBenar++;
            checks.push(true);

            if (idxsoal<(jmlSoal-1)) {
                  setTimeout(beriSoal,2500);
            } else {
                  setTimeout(selesai,2500);
            }
      } else {
            sta = 'Kamu salah';
            nrs.loadSound('sounds/menu/coba lagi ya.mp3',true);

      }
}

trace('soalsalah :'+soalSalah);
function jawab(jawaban:Boolean):Void {
      if (!inGame) {
            return;
      }
      var nrs:Sound = new Sound();
      trace(jawaban+'---'+kunci);
      jawabs+=pilihan[jawaban-1]+'\n';
      kuncis+=pilihan[kunci-1]+'\n';
      if (jawaban == kunci) {

            jmlBenar++;
            checks.push(true);
      } else {
            soalSalah[jmlSalah]=soalId;
            trace('soalsalah :'+soalSalah[jmlSalah]);
            jmlSalah++;
      }
      if (idxsoal<(jmlSoal)) {

                  setTimeout(beriSoal,100);
            } else {
                  setTimeout(selesai,100);
            }
}
```
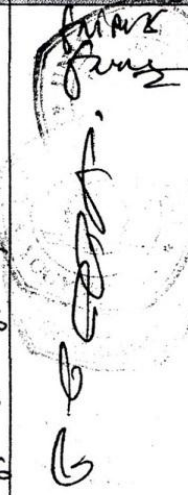
```
function selesai():Void {
     gotoAndStop(2);
}

beriSoal();

on(release){
     loadMovie('menu.swf',0);
}
```

KARTU BIMBINGAN SKRIPSI

No	Catatan Bimbingan	Tanggal	Paraf Pembimbing
1.	Perbaiki proposal	22 - 08 - 2015	
2.	Acc Propose	28 - 08 - 2015	
3.	Revisi Proposal ujian	26 - 9 - 2015	
4.	Story board	15 - 10 - 2015	
5.	Tampilan menu	12 - 01 - 2016	
6.	Marubah Isian program	19 - 01 - 2016	
7.	ACC Program	9 - 02 - 2016	
8.			

Buku Bimbingan Akademik

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNIK
UNIVERSITAS PGRI YOGYAKARTA

FORM VALIDASI ABSTRAK SKRIPSI

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Judul Skripsi (Bhs. Inggris)	Biology learning media Design For Junior High School class VIII Based Multimedia
Pembimbing I	Muhammad Fairuzabadi, M.kom
Pembimbing II	Setia Wardani, M.kom

Validator menyatakan bahwa abstrak dalam Bahasa Inggris sudah dicek dan dilakukan validasi.

Yogyakarta, 8 maret 2016

Kaprodi
Teknik Informatika

Validator

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(Sri Wiyandi.)