# DAFTAR PUSTAKA

UNIT PELAKSANA TEKNIS PERPUSTAKAAN
UNIKOM

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D.D. Prasetyo, Solusi Membuat Aplikasi Java dengan Java Studio, Elex Media Komputindo, Jakarta,2004.

H.Wijaya, Belajar sendiri Oracle (I Database, Elex Media Kompuntindo,2003.

D.Charter, MapInfo Professional, Penerbit Informatika, Bandung, April 2004

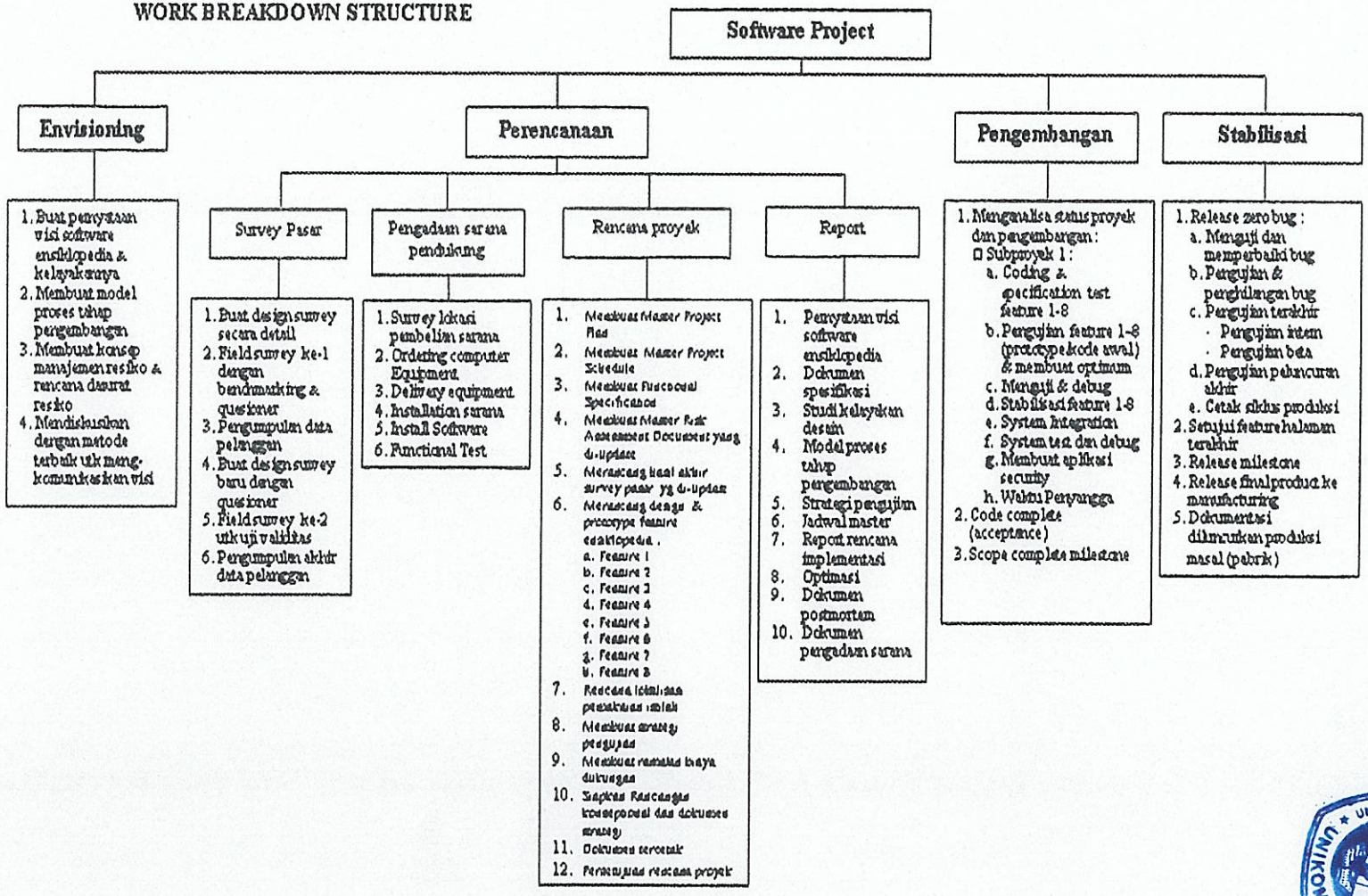
User Guide, MapInfo Professional 7.5. Scp, MapInfo Corp, New York 2004.


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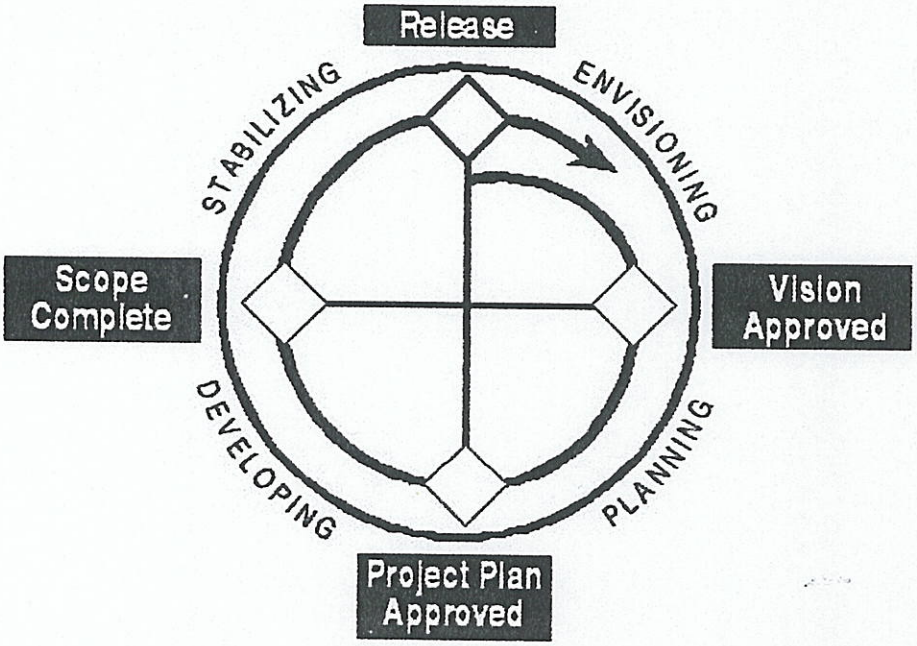
UNIT PELAKSANA TEKNIS
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# LAMPIRAN

## WORK BREAKDOWN STRUCTURE



**Lampiran 2**
***PROCESS MODEL: PROJECT SOFTWARE PACKAGES***




**Lampiran 3**

**KESEPAKATAN**
**MATERIAL PERENCANAAN, PENGEMBANGAN & STABILISASI**

| NO | URAIAN PEKERJAAN | SAT | VOLUME | HARGA SATUAN (Rp) | TOTAL HARGA (Rp) |
|---|---|---|---|---|---|
| 1 | Pengadaan perangkat komputer (lengkap) | unit | 10 | 4,500,000 | 45,000,000 |
| 2 | Pengadaan printer (Epson stylus C63) | unit | 2 | 825,000 | 1,650,000 |
| 3 | Pengadaan software | paket | 1 | 10,000,000 | 10,000,000 |
| 4 | Pengadaan alat tulis & kantor | paket | 1 | 1,000,000 | 1,000,000 |
| 5 | PENGADAAN KABEL UTP | | | | |
| | Kabel UTP untuk LAN | ft | 1,000 | | 600,000 |
| | Kabel UTP penghubung Hub ke Server | ft | 1,000 | | 600,000 |
| 6 | PENGADAAN HUB | | | | |
| | 8 Port (Merk Compex) | bh | 16 | 1,500,000 | 24,000,000 |
| 7 | PENGADAAN KONEKTOR | | | | |
| | Konektor RG 45 male | box | 15 | 200,000 | 3,000,000 |
| | Konektor RG 45 female | box | 6 | 150,000 | 900,000 |
| | TOTAL | | | | 41,750,000 |

**Lampiran 4**

| REKAPITULASI BIAYA<br>PROYEK PEMBUATAN SOFTWARE | | |
|---|---|---|
| **NO** | **URAIAN** | **JUMLAH (Rp)** |
| | MATERIAL DAN JASA | |
| 1 | MATERIAL | |
| | Perencanaan, Pengembangan & Stabilisasi | 41,750,000 |
| | | |
| 2 | JASA | |
| | Perizinan | 5,000,000 |
| | Instalasi (Perencanaan, pengembangan, stabilisasi) | 246,450,000 |
| | Transportasi lokal | 750,000 |
| | Project Management | 65,150,000 |
| | | |
| 3 | TOTAL MATERIAL DAN JASA | 359,100,000 |
| 4 | PROFIT (10% X Total Material & Jasa) | 35,910,000 |
| 5 | ASURANSI (Transportasi & Instalasi) | 10,000,000 |
| 6 | NILAI KONTRAK | 405,010,000 |
| 7 | PPN 10% X (NILAI KONTRAK) | 40,501,000 |
| 8 | IDC (Interest During Construction) | - |
| | | |
| 9 | **GRAND TOTAL** | **445,511,000** |
| | | |
| | **TOTAL INVESTASI** | **445,511,000** |

**Lampiran 5**
**Source Code web.xml**

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web
Application 2.2//EN" "http://java.sun.com/j2ee/dtds/web-app_2_2.dtd">
<web-app>
 <display-name>PETA INDONESIA</display-name>
 <description>PENGKABELAN PT. TELKOM</description>
 <servlet>
  <servlet-name>app1103519033508</servlet-name>
  <servlet-class>com.mapinfo.jsptags.RequestHandler</servlet-class>
  <init-param>
   <param-name>Beans</param-name>
   <param-value>com.mapinfo.jsptags.mapxtreme.OverviewMapBean,
com.mapinfo.jsptags.mapxtreme.ThemeBean,
com.mapinfo.jsptags.mapxtreme.ResizeBean,
com.mapinfo.jsptags.mapxtreme.FontOptionsBean,
```

```
com.mapinfo.jsptags.mapxtreme.DisplayOptionsBean,
com.mapinfo.jsptags.mapxtreme.InfoToolBean,
com.mapinfo.jsptags.mapxtreme.SaveBean,
com.mapinfo.jsptags.mapxtreme.LegendBean,
com.mapinfo.jsptags.mapxtreme.UnselectToolBean,
com.mapinfo.jsptags.mapxtreme.RecenterToolBean,
com.mapinfo.jsptags.mapxtreme.OpenBean,
com.mapinfo.jsptags.mapxtreme.ZoomInToolBean,
com.mapinfo.jsptags.mapxtreme.SelectionToolBean,
com.mapinfo.jsptags.mapxtreme.MapBean,
com.mapinfo.jsptags.mapxtreme.ProjectionBean,
com.mapinfo.jsptags.mapxtreme.ZoomOutToolBean,
com.mapinfo.jsptags.mapxtreme.LayerControlBean,
com.mapinfo.jsptags.mapxtreme.ViewEntireLayerBean,
com.mapinfo.jsptags.mapxtreme.LabelOptionsBean,
com.mapinfo.jsptags.mapxtreme.MapDisplayBean</param-value>
    </init-param>
    <init-param>
      <param-name>MapPage</param-name>
      <param-value>map.jsp</param-value>
    </init-param>
    <init-param>
      <param-name>MapXtremeURL</param-name>
      <param-value>http://islam:8080/mapxtreme47/mapxtreme</param-value>
    </init-param>
    <init-param>
      <param-name>MapFile</param-name>
      <param-value>Peta_Pengkabelan_PT.TELKOM.gst</param-value>
    </init-param>
    <init-param>
      <param-name>RemoteMapPath</param-name>
      <param-value>C:\Program Files\MapInfo\MapXtreme4.7.0\ examples\ server\
data</param-value>
    </init-param>
    <init-param>
      <param-name>SaveDirectory</param-name>
      <param-value>C:\Program Files\MapInfo\MapXtreme-4.7.0\ examples\server\
data</param-value>
    </init-param>
    <init-param>
      <param-name>MapWidth</param-name>
      <param-value>400</param-value>
    </init-param>
    <init-param>
      <param-name>MapHeight</param-name>
      <param-value>300</param-value>
```

```
  </init-param>
  <init-param>
   <param-name>ZoomFactor</param-name>
   <param-value>2.0</param-value>
  </init-param>
  <load-on-startup>1</load-on-startup>
 </servlet>
 <servlet-mapping>
  <servlet-name>app1103519033508</servlet-name>
  <url-pattern>/servlet/app1103519033508</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>app1103519033508</servlet-name>
  <url-pattern>/app1103519033508</url-pattern>
 </servlet-mapping>
 <session-config>
  <session-timeout>15</session-timeout>
 </session-config>
 <taglib>
  <taglib-uri>/mapinfo</taglib-uri>
  <taglib-location>/WEB-INF/tlds/mapinfo_4_0.tld</taglib-location>
 </taglib>
 <taglib>
  <taglib-uri>/mapxtreme</taglib-uri>
  <taglib-location>/WEB-INF/tlds/mapxtreme_4_0.tld</taglib-location>
 </taglib>
</web-app>
```

**Lampiran 6**
**Source Code map.jsp**

```
<%@ taglib uri="/mapinfo" prefix="mapinfo" %>
<%@ taglib uri="/mapxtreme" prefix="mapxtreme" %>
<%@ page language = "java" contentType="text/html; charset=UTF-8" %>
<html><head><title>PETA INDONESIA</title></head>
<body>
<h1>PENGKABELAN PT. TELKOM</h1>
<mapinfo:mapapp.name="app1103519033508">
<TABLE><TR><TD VALIGN="top">
<TABLE><TR><TD VALIGN="top">
<TABLE><TR><TD VALIGN="top"><mapinfo:toolbar>
<TABLE CELLPADDING="1"><TR><TD><mapxtreme:zoomin /></TD>
<TD><mapxtreme:zoomout /></TD><TD><mapxtreme:recenter /></TD>
```



<TD><mapxtreme:infotool page="/jsp/infodialog.jsp" img="images/icon32.gif"
width="0" height="0" /></TD><TD><mapxtreme:selectiontool searchMode="8"
img="images/icon32.gif" width="0" height="0" /></TD>
<TD><mapxtreme:unselecttool img="images/icon32.gif" width="0" height="0"/>
</TD><TD><mapxtreme:selectioninfotool img="images/icon32.gif" width="0"
height="0" /></TD><TD><mapxtreme:opentool img="images/icon32.gif"
width="0" height="0" /></TD><TD><mapxtreme:savetool
img="images/icon32.gif" width="0" height="0"
/></TD><TD><mapxtreme:layercontroltool img="images/icon32.gif" width="0"
height="0" /></TD><TD><mapxtreme:themetool img="images/icon32.gif"
width="0" height="0" /></TD><TD><mapxtreme:legendtool
img="images/icon32.gif" width="0" height="0"
/></TD><TD><mapxtreme:printpreviewtool img="images/icon32.gif" width="0"
height="0" /></TD><TD><mapxtreme:zoomnumerictool
img="images/icon32.gif" width="0" height="0"
/></TD><TD><mapxtreme:viewentirelayertool img="images/icon32.gif"
width="0" height="0" /></TD><TD><mapxtreme:projectiontool
img="images/icon32.gif" width="0" height="0"
/></TD></TR></TABLE></mapinfo:toolbar></TD></TR><TR><TD
VALIGN="top"><mapxtreme:map backgroundColor="#66CCFF"
numOfColors="256" /></TD></TR></TABLE></TD></TR><TR><TD
VALIGN="top"><TABLE><TR><TD VALIGN="top"><TABLE><TR><TD
VALIGN="top"><mapxtreme:zoomNumeric /></TD><TD
VALIGN="top"><mapxtreme:zoomRange readOnly="true"
/></TD></TR></TABLE></TD></TR><TR><TD
VALIGN="top"><TABLE><TR><TD VALIGN="top"><mapxtreme:centerX
readOnly="true" /></TD><TD VALIGN="top"><mapxtreme:centerY
readOnly="true"
/></TD></TR></TABLE></TD></TR></TABLE></TD></TR></TABLE></T
D><TD VALIGN="top"><TABLE><TR><TD
VALIGN="top"><mapxtreme:layercontrol><table border="0" cellspacing="0"
cellpadding="2"><tr bgcolor="#C1C1C1"><td><img src="images/visible.gif"
alt="<mapinfo:localString string="dialog_visible"/>" /></td><td><img
src="images/autolabel.gif" alt="<mapinfo:localString string="dialog_label"/>"
/></td><td><img src="images/selectable.gif" alt="<mapinfo:localString
string="dialog_select"/>" /></td><td colspan="5"><mapinfo:localString
string="dialog_name" /></td></tr><mapxtreme:layerlist
showRangedThemes="true" showIndividualValueThemes="true"
showOverrideThemes="true"
showSelectionThemes="true"><tr><td><mapxtreme:visible
/></td><td><mapxtreme:label /></td><td><mapxtreme:select
/></td><td><mapxtreme:layerIndex /></td><td><mapxtreme:layername
tableInfo="false" layer="-1" /></td><td><mapxtreme:displayOptionsTool
layer="-1" img="images/icon32.gif" width="0" height="0"
/></td><td><mapxtreme:labelOptionsTool layer="-1" img="images/icon32.gif"
width="0" height="0" /></td><td><mapxtreme:fontOptionsTool layer="-1"

```
img="images/icon32.gif" width="0" height="0"
/></td><td><mapxtreme:removeLayer src="trash.gif" width="0" height="0"
/></td></tr></mapxtreme:layerlist></table><input type="submit"
value="<mapinfo:localString string="dialog_refresh"/>"
/></mapxtreme:layercontrol></TD></TR><TR><TD
VALIGN="top"><TABLE><TR><TD
VALIGN="top"><mapxtreme:overviewMap width="160" height="120"
zoomOutFactor="2" zoomOut="-1" showPoints="true" showPolylines="true"
showPolygons="true" backgroundColor="FFFFFF" numOfColors="256"
/></TD></TR><TR><TD VALIGN="top"><mapxtreme:legendlist
showRangedThemes="true" showIndividualValueThemes="true"
showOverrideThemes="true"
showSelectionThemes="true"><p><mapxtreme:legendelement titleFontSize="12"
fontSize="10"
/></p></mapxtreme:legendlist></TD></TR></TABLE></TD></TR></TABLE>
</TD></TR></TABLE></mapinfo:mapapp>
</body></html>
```

**Lampiran 7**
**Source Code mapobject.js**

```
function Map() {
        var t = new Events();
        for(var i in t) {
                this[i] = t[i]; // copy the members and methods
        }

        this.zoomEvent = function(evt) {
                var svgdocel = getMapDocument().documentElement;
                if(svgdocel != null) {
                        var scale = svgdocel.currentScale;
                        if(scale < 1) { //auto refresh the data when zooming out
                                refreshMapData();
                        }
                }
        }

        this.loadEvent = function(evt) {
                var svgdocel = getMapDocument().documentElement;
                svgdocel.currentScale = 1;
                svgdocel.currentTranslate.x = 0;
                svgdocel.currentTranslate.y = 0;
                window.status = "";
        }
```

```
this.mouseOverEvent = function(evt) {
        var svgobj  = evt.getTarget();
        var parentn = getParentFeatureElement(svgobj);

        //Check to see if this is a layer
        if(parentn != null) {
                var name = parentn.getAttribute("id");
                if(name != null) {
                        name = name.substring(name.indexOf("_")+1,
name.length);

                        if(layerIsLoaded(name)
                                &&
document.layercontrolform.elements["highlight" + name] != null
                                &&
document.layercontrolform.elements["highlight" + name].checked
                        ) { //highlight the feature
                                var hl = svgobj.getParentNode();
                                if(hl == parentn) {
                                        hl = svgobj;
                                }
                                setDropShadow(hl);
                                highlightObject(hl);
                        }
                }
        }
}

this.mouseOutEvent = function(evt) {
        var svgobj  = evt.getTarget();
        var parentn = getParentFeatureElement(svgobj);

        //Check to see if this is a layer
        if(parentn != null) {
                var name = parentn.getAttribute("id");
                if(name != null) {
                        name = name.substring(name.indexOf("_")+1,
name.length);

                        if(layerIsLoaded(name)
                                &&
document.layercontrolform.elements["highlight" + name] != null
                                &&
document.layercontrolform.elements["highlight" + name].checked
                        ) { //restore the feature
                                var hl = svgobj.getParentNode();
```

```
                                        if(hl == parentn) {
                                                hl = svgobj;
                                        }
                                        removeDropShadow(hl);
                                        restoreHighlightObject(hl);
                                }
                        }
                }
        }
}
```



**Lampiran 8**
**Source Code toolbar.js**

```
function changeImage(imgName) {
        if(!document.mapcontrol.mapinfobean) { return; }
        var testString = imgName + "s.gif";
        document.mapcontrol.target = "_self";
        //Toggle off the image selected
        if(document.images[imgName].src.indexOf(testString) != -1) {
                document.images[imgName].src = IMAGES_ALIAS + imgName
+ ".gif";
                window.focus();
                if(document.mapcontrol.mapinfobean) {
document.mapcontrol.mapinfobean.value=""; }
                return;
        }
        //Turn off all of the images.
        if(document.recenter) {
                document.recenter.src=IMAGES_ALIAS + "recenter.gif";
        }
        if(document.zoomin) {
                document.zoomin.src=IMAGES_ALIAS + "zoomin.gif";
        }
        if(document.zoomout) {
                document.zoomout.src=IMAGES_ALIAS + "zoomout.gif";
        }
        if(document.infotool) {
                document.infotool.src=IMAGES_ALIAS + "infotool.gif";
        }
        if(document.radius) {
                document.radius.src=IMAGES_ALIAS + "radius.gif";
        }
        if(document.select) {
```

```
                document.select.src=IMAGES_ALIAS + "select.gif";
        }

        document.images[imgName].src = IMAGES_ALIAS + imgName +
"s.gif";
        if(document.mapcontrol.mapinfobean) {
document.mapcontrol.mapinfobean.value=imgName; }
        window.focus();
}
```

**Lampiran 9**
**Source Code PopupWindow.js**

```
function PopupWindow_getXYPosition(anchorname) {
        var coordinates;
        if (this.type == "WINDOW") {
                coordinates = getAnchorWindowPosition(anchorname);
                }
        else {
                coordinates = getAnchorPosition(anchorname);
                }
        this.x = coordinates.x;
        this.y = coordinates.y;
        }
// Set width/height of DIV/popup window
function PopupWindow_setSize(width,height) {
        this.width = width;
        this.height = height;
        }
// Fill the window with contents
function PopupWindow_populate(contents) {
        this.contents = contents;
        this.populated = false;
        }
// Refresh the displayed contents of the popup
function PopupWindow_refresh() {
        if (this.divName != null) {
                // refresh the DIV object
                if (this.use_gebi) {
                        document.getElementById(this.divName).innerHTML =
this.contents;
                        }
                else if (this.use_css) {
```

```
                document.all[this.divName].innerHTML = this.contents;
                }
        else if (this.use_layers) {
                var d = document.layers[this.divName];
                d.document.open();
                d.document.writeln(this.contents);
                d.document.close();
                }
        }
    else {
        if (this.popupWindow != null && !this.popupWindow.closed) {
                this.popupWindow.document.open();
                this.popupWindow.document.writeln(this.contents);
                this.popupWindow.document.close();
                this.popupWindow.focus();
                }
        }
    }
function PopupWindow_showPopup(anchorname) {
    this.getXYPosition(anchorname);
    this.x += this.offsetX;
    this.y += this.offsetY;
    if (!this.populated && (this.contents != "")) {
        this.populated = true;
        this.refresh();
        }
    if (this.divName != null) {
        // Show the DIV object
        if (this.use_gebi) {
                document.getElementById(this.divName).style.left = this.x;
                document.getElementById(this.divName).style.top = this.y;
                document.getElementById(this.divName).style.visibility =
"visible";
                }
        else if (this.use_css) {
                document.all[this.divName].style.left = this.x;
                document.all[this.divName].style.top = this.y;
                document.all[this.divName].style.visibility = "visible";
                }
        else if (this.use_layers) {
                document.layers[this.divName].left = this.x;
                document.layers[this.divName].top = this.y;
                document.layers[this.divName].visibility = "visible";
                }
        }
    else {
```

```
                if (this.popupWindow == null || this.popupWindow.closed) {
                        // If the popup window will go off-screen, move it so it
doesn't
                        if (screen && screen.availHeight) {
                                if ((this.y + this.height) > screen.availHeight) {
                                        this.y = screen.availHeight - this.height;
                                        }
                                }
                        if (screen && screen.availWidth) {
                                if ((this.x + this.width) > screen.availWidth) {
                                        this.x = screen.availWidth - this.width;
                                        }
                                }
                        this.popupWindow =
window.open("about:blank","window_"+anchorname,"toolbar=no,location=no,sta
tus=no,menubar=no,scrollbars=auto,resizable,alwaysRaised,dependent,titlebar=no
,width="+this.width+",height="+this.height+",screenX="+this.x+",left="+this.x+"
,screenY="+this.y+",top="+this.y+"");
                        }
                this.refresh();
                }
        }
// Hide the popup
function PopupWindow_hidePopup() {
        if (this.divName != null) {
                if (this.use_gebi) {
                        document.getElementById(this.divName).style.visibility =
"hidden";
                        }
                else if (this.use_css) {
                        document.all[this.divName].style.visibility = "hidden";
                        }
                else if (this.use_layers) {
                        document.layers[this.divName].visibility = "hidden";
                        }
                }
        else {
                if (this.popupWindow && !this.popupWindow.closed) {
                        this.popupWindow.close();
                        this.popupWindow = null;
                        }
                }
        }
function PopupWindow_isClicked(e) {
        if (this.divName != null) {
                if (this.use_layers) {
```



```
                        var clickX = e.pageX;
                        var clickY = e.pageY;
                        var t = document.layers[this.divName];
                        if ((clickX > t.left) && (clickX < t.left+t.clip.width) &&
(clickY > t.top) && (clickY < t.top+t.clip.height)) {
                                return true;
                                }
                        else { return false; }
                        }
                else if (document.all) { // Need to hard-code this to trap IE for
error-handling
                        var t = window.event.srcElement;
                        while (t.parentElement != null) {
                                if (t.id==this.divName) {
                                        return true;
                                        }
                                t = t.parentElement;
                                }
                        return false;
                        }
                else if (this.use_gebi) {
                        var t = e.originalTarget;
                        while (t.parentNode != null) {
                                if (t.id==this.divName) {
                                        return true;
                                        }
                                t = t.parentNode;
                                }
                        return false;
                        }
                return false;
                }
        return false;
        }

// Check an onMouseDown event to see if we should hide
function PopupWindow_hideIfNotClicked(e) {
        if (this.autoHideEnabled && !this.isClicked(e)) {
                this.hidePopup();
                }
        }
// Call this to make the DIV disable automatically when mouse is clicked outside
it
function PopupWindow_autoHide() {
        this.autoHideEnabled = true;
        }
```

```
// This global function checks all PopupWindow objects onmouseup to see if they
should be hidden
function PopupWindow_hidePopupWindows(e) {
        for (var i=0; i<popupWindowObjects.length; i++) {
                if (popupWindowObjects[i] != null) {
                        var p = popupWindowObjects[i];
                        p.hideIfNotClicked(e);
                        }
                }
        }
// Run this immediately to attach the event listener
function PopupWindow_attachListener() {
        if (document.layers) {
                document.captureEvents(Event.MOUSEUP);
                }
        window.popupWindowOldEventListener = document.onmouseup;
        if (window.popupWindowOldEventListener != null) {
                document.onmouseup = new
Function("window.popupWindowOldEventListener();
PopupWindow_hidePopupWindows();");
                }
        else {
                document.onmouseup = PopupWindow_hidePopupWindows;
                }
        }
// CONSTRUCTOR for the PopupWindow object
// Pass it a DIV name to use a DHTML popup, otherwise will default to window
popup
function PopupWindow() {
        if (!window.popupWindowIndex) { window.popupWindowIndex = 0; }
        if (!window.popupWindowObjects) { window.popupWindowObjects =
new Array(); }
        if (!window.listenerAttached) {
                window.listenerAttached = true;
                PopupWindow_attachListener();
                }
        this.index = popupWindowIndex++;
        popupWindowObjects[this.index] = this;
        this.divName = null;
        this.popupWindow = null;
        this.width=0;
        this.height=0;
        this.populated = false;
        this.visible = false;
        this.autoHideEnabled = false;
```

```
this.contents = "";
if (arguments.length>0) {
        this.type="DIV";
        this.divName = arguments[0];
        }
else {
        this.type="WINDOW";
        }
this.use_gebi = false;
this.use_css = false;
this.use_layers = false;
if (document.getElementById) { this.use_gebi = true; }
else if (document.all) { this.use_css = true; }
else if (document.layers) { this.use_layers = true; }
else { this.type = "WINDOW"; }
this.offsetX = 0;
this.offsetY = 0;
// Method mappings
this.getXYPosition = PopupWindow_getXYPosition;
this.populate = PopupWindow_populate;
this.refresh = PopupWindow_refresh;
this.showPopup = PopupWindow_showPopup;
this.hidePopup = PopupWindow_hidePopup;
this.setSize = PopupWindow_setSize;
this.isClicked = PopupWindow_isClicked;
this.autoHide = PopupWindow_autoHide;
this.hideIfNotClicked = PopupWindow_hideIfNotClicked;
}
```

**Lampiran 10**
**Source Code Function.js**

```
function getMapDocument() {
        return document.embeds[MAP_EMBED_NAME].getSVGDocument();
}

function getRootElement(elt) {
        var outermostSVGElement = null;
        var ancestorSVG = null;
        if(elt.getParentNode() == null) {
                outermostSVGElement = elt;
        } else {
```

```
            ancestorSVG = elt;
        }
        while(true) {
            newAncestorSVG = ancestorSVG.getParentNode();
            if(newAncestorSVG == null) {
                break;
            } else {
                ancestorSVG = newAncestorSVG;
            }
            outermostSVGElement = ancestorSVG;
        }
        return outermostSVGElement;
}

function getParentElement(startEl, id) {
        var ancestorSVG = startEl;
        while(true) {
            ancestorSVG = ancestorSVG.getParentNode();
            if(ancestorSVG == null || ancestorSVG.getAttribute("id") == id) {
                break;
            }
        }
        return ancestorSVG;
}

function getParentFeatureElement(svgobj) {
        var child  = svgobj;
        var parentn = child.parentNode;
        while(parentn != null && (!isElement(parentn) ||
/*parentn.getTagName()!="g" ||*/ parentn.getAttribute("id") == null
            || parentn.getAttribute("id").substring(0, 6) != LAYER_PREFIX)
        ) {
            child  = parentn;
            parentn = child.parentNode;
        }

        return parentn;
} //getParentFeatureElement

function refreshMapData() {

  if(window.status != "Loading map...") {
        var svgdoc  = getMapDocument();
        var svgdocel = svgdoc.documentElement;
        var trans   = svgdocel.currentTranslate;
```

```
        var width  =
document.embeds[MAP_EMBED_NAME].window.innerWidth;
        var height  =
document.embeds[MAP_EMBED_NAME].window.innerHeight;
        var scale   = svgdocel.currentScale;
        var x  = width / 2;
        var y  = height / 2;
        var tx = trans.x;
        var ty = trans.y;
        var nx = x/scale + (( 0.0 - trans.x ) / scale);
        var ny = y/scale + (( 0.0 - trans.y ) / scale);
        var url     = REQUEST_HANDLER_SERVLET
                                        + "?appname=" + APP_NAME
                                        + "&mapinfobean=svgzoom"
                                        + "&zoomfactor=" + scale
                                        + "&centerx=" + nx
                                        + "&centery=" + ny
                                        + "&width=" + width
                                        + "&height=" + height;
        document.embeds[MAP_EMBED_NAME].setSRC(url);
        window.status = "Loading map...";
    }
} //refreshMapData

function fixScaleAndTranslate() {
        var svgdoc   = getMapDocument();
        var svgdocel = svgdoc.documentElement;
        svgdocel.currentScale = 1;
        svgdocel.currentTranslate.x = 0;
        svgdocel.currentTranslate.y = 0;
} //fixScaleAndTranslate

function toggleLayer(checkbox, layer) {
        var svgdoc = getMapDocument();
        var svgobj = svgdoc.getElementById(layer);

        if(svgobj == null) {
                //If we don't find the object, we need to go back to server to get it.
                document.layercontrolform.submit();
        } else if(!checkbox.checked) { //Hide
                svgobj.setAttribute('style','visibility:hidden');
        } else { //Show
                svgobj.setAttribute('style','visibility:visible');
        }
} //toggleLayer
```



```
var originalFill = null;

function highlightObject(svgobj) {
        if(svgobj.getNodeType() == ELEMENT_NODE) {
                originalFill = svgobj.getAttribute("fill");
                if(originalFill == null || originalFill == "none" || originalFill == "")
{
                        svgobj.setAttribute("fill", "#0000FF");
                } else {
                        svgobj.setAttribute("fill", invertColor(originalFill));
                }
        }
} //highlightObject

function restoreHighlightObject(svgobj) {
        svgobj.setAttribute("fill", originalFill);
        originalFill = null;
} //restoreHighlightObject

function setDropShadow(svgobj) {
        var svgdoc =
document.embeds[MAP_EMBED_NAME].getSVGDocument();

        // Define an element for the  defs  section that looks like this:
        //<filter id="MIDropShadow" filterUnits="objectBoundingBox" x="-50%"
y="-50%" width="200%" height="200%">
        //<feGaussianBlur in="SourceAlpha" stdDeviation="2"
result="BlurAlpha"/>
        //<feOffset in="BlurAlpha" dx="4" dy="4" result="OffsetBlurAlpha"/>
        //<feMerge><feMergeNode in="OffsetBlurAlpha"/> <feMergeNode
in="SourceGraphic"/></feMerge>
        //</filter>
        var dsFilter = svgdoc.getElementById('MIDropShadow');
        if (dsFilter == null) {
                var svgdeflist = getDefList();
                var svgdef = svgdeflist.item(0);
                // Build filter element
                var filt  = svgdoc.createElement('filter');
                filt.setAttribute('id', 'MIDropShadow');
                filt.setAttribute('filterUnits', 'objectBoundingBox');
                filt.setAttribute('x', '-50%');
                filt.setAttribute('y', '-50%');
                filt.setAttribute('width', '200%');
                filt.setAttribute('height', '200%');
                // Build feMerge
                var feMerge = svgdoc.createElement('feMerge');
```

```
                var feMergeNode1 = svgdoc.createElement('feMergeNode');
                feMergeNode1.setAttribute('in', 'OffsetBlurAlpha');
                var feMergeNode2 = svgdoc.createElement('feMergeNode');
                feMergeNode2.setAttribute('in', 'SourceGraphic');
                feMerge.appendChild(feMergeNode1);
                feMerge.appendChild(feMergeNode2);
                // build feOffset
                var feOffset = svgdoc.createElement('feOffset');
                feOffset.setAttribute('in', 'BlurAlpha');
                feOffset.setAttribute('dx', '4');
                feOffset.setAttribute('dy', '4');
                feOffset.setAttribute('result', 'OffsetBlurAlpha');
                // build feGaussianBlur
                var feGaussianBlur = svgdoc.createElement('feGaussianBlur');
                feGaussianBlur.setAttribute('in', 'SourceAlpha');
                feGaussianBlur.setAttribute('stdDeviation', '2');
                feGaussianBlur.setAttribute('result', 'BlurAlpha');
                // Combine elements
                filt.appendChild(feGaussianBlur);
                filt.appendChild(feOffset);
                filt.appendChild(feMerge);
                // add filter to defs
                svgdef.appendChild(filt);
        }

        //Set the object to use the drop shadow
        svgobj.setAttribute('filter', 'url(#MIDropShadow)');
} //setDropShadow

function removeDropShadow(svgobj) {
        svgobj.setAttribute("filter", null);
} //removeDropShadow

function toggleAnimate(checkbox, layer) {
        var svgdoc = getMapDocument();
        var svgobj = svgdoc.getElementById(LAYER_PREFIX +
(parseInt(layer)));
        if(svgobj != null) {
                animateElement(checkbox, svgobj);
        } else {
                alert("Layer must be visible to animate.");
                return false;
        }
} //toggleAnimate

function getDefList() {
```

```
        var svgdoc = getMapDocument();
        var deflist = svgdoc.getElementsByTagName("defs");
        if(deflist == null || deflist.length<1) {
                var def = svgdoc.createElement("defs");
                svgdoc.appendChild(def);
                deflist = svgdoc.getElementsByTagName("defs");
        }
        return deflist;
} //getDefList

function createGradientDef() {
        var svgdoc = getMapDocument();
        var svgdeflist = getDefList();
        var svgdef = svgdeflist.item(0);
        var gradient = svgdoc.getElementById("radGrad");

        if(gradient == null) {
                var gradient = svgdoc.createElement("radialGradient");
                gradient.setAttribute("id", "radGrad");
                gradient.setAttribute("gradientUnits", "objectBoundingBox");
                gradient.setAttribute("x1", "0");
                gradient.setAttribute("y1", "1");
                gradient.setAttribute("x2", "0");
                gradient.setAttribute("y2", "0");

                var stop1 = svgdoc.createElement("stop");
                stop1.setAttribute("offset", "0");
                stop1.setAttribute("style", "stop-color:rgb(213,248,192)");

                var stop2 = svgdoc.createElement("stop");
                stop2.setAttribute("offset", "1");
                stop2.setAttribute("style", "stop-color:rgb(174,208,164)");

                gradient.appendChild(stop1);
                gradient.appendChild(stop2);
                svgdef.appendChild(gradient);
        }
} //createGradientDef

var originalGradientFill = null;

function toggleGradient(checkbox, layer) {
        var svgdoc = getMapDocument();
        var svglayer = svgdoc.getElementById(LAYER_PREFIX + layer);

        if(layerIsLoaded(layer)) {
```

```
                createGradientDef();

                if(checkbox.checked) {
                        originalGradientFill = svglayer.getAttribute("fill");
                        svglayer.setAttribute('fill', 'url(#radGrad)');
                } else {
                        svglayer.setAttribute('fill', originalGradientFill);
                        originalGradientFill = null;
                }
                return true;
        } else {
                alert("Layer must be visible to apply any filters.");
                return false;
        }
} //toggleGradient

function layerIsLoaded(layer) {
        if(layer != null) {
                var svgdoc = getMapDocument();
                var svglayer = svgdoc.getElementById(LAYER_PREFIX + layer);
                return svglayer != null;
        }
        return false;
} //layerIsLoaded

function animateElement(checkbox, svgobj) {
        var svgobj;
        var svgdoc = getMapDocument();
        if (checkbox.checked) {
                var anim  = svgdoc.createElement('animate');
                anim.setAttribute('attributeName', 'opacity');
                anim.setAttribute('attributeType', 'CSS');
                anim.setAttribute('id', 'pulsate');
                anim.setAttribute('values', '1;0.1;0.1;1');
                anim.setAttribute('dur', '2.5s');
                anim.setAttribute('repeatCount', 'indefinite');

                svgobj.appendChild(anim);
        } else {
                var kids = svgobj.getElementsByTagName('animate');
                var kid = kids.item(0);
                svgobj.removeChild(kid);
        }
} //animateElement

function invertColor(color) {
```



```
        var rgb = hexToRGB(color);
        for(i=0; i<rgb.length; i++) {
                rgb[i] = (rgb[i] < 128) ? (rgb[i] += 128) : (rgb[i] -= 128);
        }
        return rgbToHex(rgb[0], rgb[1], rgb[2]);
} //invertColor

function hexToRGB(hex) {
        hex = hex.toUpperCase();
        if(hex.charAt(0) == "#") hex = hex.substring(1,hex.length);
        var rgb = new Array(3);
        rgb.r = hex.substring(0,2);
        rgb.g = hex.substring(2,4);
        rgb.b = hex.substring(4,6);
        rgb.r = parseInt(rgb.r,16);
        rgb.g = parseInt(rgb.g,16);
        rgb.b = parseInt(rgb.b,16);
        if(isNaN(rgb.r)) rgb.r = 0;
        if(isNaN(rgb.g)) rgb.g = 0;
        if(isNaN(rgb.b)) rgb.b = 0;
        return rgb;
} //hexToRGM

function rgbToHex(r, g, b) {
        var n = Math.round(b);
        n += Math.round(b) << 8;
        n += Math.round(r) << 16;
        return decToHex(n);
} //rgbToHex

function decToHex(num) {
        var i = 0; var j = 20;
        var str = "#";
        while(j >= 0) {
                i = (num >> j)%16;
                if(i >= 10) {
                        if(i == 10) str += "A";
                        else if(i == 11) str += "B";
                        else if(i == 12) str += "C";
                        else if(i == 13) str += "D";
                        else if(i == 14) str += "E";
                        else str += "F";
                } else {
                        str += i;
                }
                j -= 4;
```

```
        }
        return str;
} //decToHex

function isElement() {
        if(typeof arguments[0] == 'object' && arguments[0].constructor) {
                var criterion =
        arguments[0].constructor.toString().match(/element/i);
                return (criterion != null);
        } else if(typeof arguments[0] == 'object' && arguments[0].getTagName) {
                return true;
        }
        return false;
}

function isArray() {
        if(typeof arguments[0] == 'object' && arguments[0].constructor) {
                var criterion = arguments[0].constructor.toString().match(/array/i);
                return (criterion != null);
        }
        return false;
}

function isString() {
        if(typeof arguments[0] == 'string') return true;
        if(typeof arguments[0] == 'object' && arguments[0].constructor) {
                var criterion = arguments[0].constructor.toString().match(/string/i);
                return (criterion != null);
        }
        return false;
}
```

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e-mail : info@telematika.web.id http://telematika.web.id

# Formulir Absensi Kerja Praktek

Nama : IVAN AGUSTIAN
Jurusan : Teknik Informatika
NIM : 10101265
Fakultas : Teknik dan Ilmu Komputer
Kelas : IF-5
Jenjang : Strata I

**Keterangan Lokasi / Tempat PKL**

Nama Instansi / Perusahaan : PT. Telematics Research Group (TRG).

Alamat : Jalan Ligar Asri 17 Bukit Ligar Bandung.

Objek / Materi PKL : Visualisasi koordinat *Global Positioning System* (*GPS*) Pada Pengembangan Proyek Database Divisi *Long Distance* (DB-DLD) PT. Telkom, Jalan Japati No.1 Bandung.

## Agenda Acara PKL

| NO | TGL | Jam Masuk | Jam Keluar | Paraf MHS | Paraf Perusahaan | Ket |
|---|---|---|---|---|---|---|
| 1 | 5-07-2004 | 08.00 | 17.00 | Cn | | |
| 2 | 6-07-2004 | 09.30 | 16.30 | Cn | | |
| 3 | 7-07-2004 | 08.00 | 16.30 | Cn | | |
| 4 | 8-07-2004 | 08.00 | 16.30 | Cn | | |
| 5 | 9-07-2004 | 09.00 | 17.00 | Cn | | |
| 6 | 10-07-2004 | 09.00 | 16.30 | Cn | | |
| 7 | 12-07-2004 | 08.30 | 16.30 | Cn | | |
| 8 | 13-07-2004 | 09.30 | 16.30 | Cn | | |
| 9 | 14-07-2004 | 08.30 | 17.00 | Cn | | |
| 10 | 15-07-2004 | 08.30 | 17.00 | Cn | | |
| 11 | 16-07-2004 | 08.30 | 17.00 | Cn | | |
| 12 | 17-07-2004 | 09.30 | 16.00 | Cn | | |
| 13 | 19-07-2004 | 09.30 | 16.30 | Cn | | |
| 14 | 23-07-2004 | 09.45 | 17.00 | Cn | | |
| 15 | 26-07-2004 | 10.00 | 17.00 | Cn | | |
| 16 | 27-07-2004 | 09.30 | 13.00 | Cn | | |
| 17 | 29-07-2004 | 09.00 | 15.00 | Cn | | |
| 18 | 30-07-2004 | 09.00 | 16.00 | Cn | | |
| 19 | 02-08-2004 | 10.00 | 17.00 | Cn | | |
| 20 | 03-08-2004 | 10.00 | 17.00 | Cn | | |

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|---|---|---|---|---|---|---|
| 21 | 04-08-2004 | 08:00 | 16:30 | | | |
| 22 | 05-08-2004 | 08:30 | 15:30 | | | |
| 23 | 06-08-2004 | 09:30 | 17:00 | | | |
| 24 | 09-08-2004 | 10:00 | 17:00 | | | |
| 25 | 10-08-2004 | 11:00 | 17:00 | | | |
| 26 | 11-08-2004 | 09:00 | 17:00 | | | |
| 27 | 12-08-2004 | 11:30 | 15:30 | | | |
| 28 | 13-08-2004 | 11:00 | 15:45 | | | |
| 29 | 16-08-2004 | 08:00 | 15:00 | | | |
| 30 | 18-08-2004 | 08:00 | 17:00 | | | |
| 31 | 20-08-2004 | 09:30 | 17:00 | | | |
| 32 | 01-09-2004 | 08:00 | 17:00 | | | |
| 33 | 02-09-2004 | 08:00 | 17:00 | | | |
| 34 | 03-09-2004 | 08:00 | 17:00 | | | |
| 35 | 13-09-2004 | 08:00 | 17:00 | | | |
| 36 | 14-09-2004 | 08:30 | 16:30 | | | |
| 37 | 15-09-2004 | 08:30 | 17:00 | | | |
| 38 | 16-09-2004 | 08:30 | 17:00 | | | |
| 39 | 17-09-2004 | 08:30 | 17:00 | | | |
| 40 | 20-09-2004 | 08:30 | 17:00 | | | |
| 41 | 22-09-2004 | 08:00 | 17:00 | | | |
| 42 | 23-09-2004 | 09:30 | 16:30 | | | |
| 43 | 24-09-2004 | 09:30 | 15:00 | | | |
| 44 | 27-09-2004 | 09:30 | 17:00 | | | |
| 45 | 28-09-2004 | 09:30 | 17:00 | | | |
| 46 | 29-09-2004 | 09:00 | 17:00 | | | |
| 47 | 30-09-2004 | 08:00 | 17:00 | | | |
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Mengetahui
Ketua Jurusan Teknik Informatika

Budhi Irawan, S.Si
Nip. 41277006003

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Bandung, 24 September 2004

**SURAT KETERANGAN**
**TRG/P.2-20/2004**

Hal : Kerja Praktek

Kepada Yth
Ketua
Jurusan Teknik Informatika
Fakultas Teknik dan Ilmu Komputer
Universitas Komputer Indonesia (UNIKOM)

Menerangkan bahwa

| | | |
|---|---|---|
| Nama | : | Ivan Agustian |
| Tempat/Tgl Lahir | : | Bandung / 31 Juli 1980 |
| NIM | : | 10101265 |
| Kelas | : | IF - 5 |
| Semester | : | 7 |
| Program Studi | : | S-1 |
| Jurusan | : | Teknik Informatika |
| Fakultas | : | Teknik dan Ilmu Komputer |
| Kampus | : | Universitas Komputer Indonesia (UNIKOM) |
| Alamat | : | Jl. Dipatiukur No. 114 – 116 Bandung 40132 |

Telah mengikuti kerja praktek dan lapangan di PT. TRG International bekerjasama dengan PT. Multi Computer Sistemapratama, yang ditempatkan di Database Development Divisi Long Distance (DB DLD) PT. Telkom Jl. Japati No.1 Bandung, dari tanggal 5 Juli 2004 hingga akhir bulan September 2004.

Demikian kami sampaikan, atas perhatian dan kerjasamanya di ucapkan terima kasih.

Penanggung Jawab
Direktur
PT. TRG International

TELEMATICS RESEARCH GROUP

Ian Yosef

# PENILAIAN KERJA PRAKTEK
# UNIVERSITAS KOMPUTER INDONESIA

| | |
|---|---|
| Nama Mahasiswa/i | : IVAN AGUSTIAN |
| NIM | : 10101265 |
| Jurusan | : TEKNIK INFORMATIKA |
| Nama Perusahaan | : TELEMATICS RESEARCH GROUP (TRG) |
| Alamat Perusahaan | : Jl. Ligar Asri 17 Bukit Ligar Bandung 40191<br>Telp. (022) 2505927 Fax (022) 2501924 |
| Waktu Kerja Praktek | : 5 Juli 2004 S/D 30 September 2004 |
| Nama Pejabat Penilai | : Ian Yosef, S.T, M.T |
| Jabatan | : General Manager (GM) |

| No | Penilaian | Nilai | Index Prestasi |
|---|---|---|---|
| 1 | Disiplin dalam kerja | 95 | A |
| 2 | Kemampuan menyelesaikan tugas | 95 | A |
| 3 | Prestasi kerja | 95 | A |
| 4 | Inisiatif | 90 | A |
| 5 | Kepribadian | 95 | A |

## Judul Laporan Kerja Praktek

Visualisasi koordinat *Global Positioning System* (*GPS*) Pada Pengembangan Proyek Database Divisi *Long Distance* (DB-DLD) PT. Telkom Jalan Japati No.1 Bandung.

Komentar Pejabat Penilai atas prestasi kerja Mahasiswa/i Universitas Komputer Indonesia (UNIKOM) :

.....
.....
.....

| Nilai | Index | Keterangan |
|---|---|---|
| 80 ≤ NA ≤ 100 | A | Sangat baik |
| 70 ≤ NA ≤ 79 | B | Baik |
| 55 ≤ NA ≤ 69 | C | Cukup |
| 41 ≤ NA ≤ 54 | D | Kurang |
| 0 ≤ NA ≤ 40 | E | Jelek (Tidak Lulus) |

Mengetahui,
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