DAFTAR LAMPIRAN

Lampiran – 1 *Listing program* Halaman Utama

```
<!DOCTYPE html>
<html
xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta charset="utf-8" />
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0" />
  <title>StegaInsert</title>
<!-- Bootstrap Styles-->
  <link href="assets/css/bootstrap.css"
rel="stylesheet" />
  <!-- FontAwesome Styles-->
  <link href="assets/css/font-awesome.css"
rel="stylesheet" />
    <!-- Custom Styles-->
  <link href="assets/css/custom-styles.css"
rel="stylesheet" />
  <!-- Google Fonts-->
  <link
href='http://fonts.googleapis.com/css?family
=Open+Sans' rel='stylesheet' type='text/css'
/>
</head>
<body>
  <div id="wrapper">
    <nav class="navbar navbar-default top-
navbar" role="navigation">
      <div class="navbar-header">
          <button type="button"
class="navbar-toggle" data-
toggle="collapse" data-target=".sidebar-
collapse">
            <span class="sr-only">Toggle
navigation</span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
  <span class="icon-bar"></span>
          </button>
          <a class="navbar-brand"
href="index.html">StegaInside</a>
      </div>
    </nav>
    <!--/. NAV TOP  -->
    <nav class="navbar-default navbar-side"
role="navigation">
      <div class="sidebar-collapse">
        <ul class="nav" id="main-menu">
          <li>
            <a href="#" class="active-
menu"><i class="fa fa-dashboard"></i>
Home</a>
          </li>
          <li>
            <a href="about.php"><i
class="fas fa-address-card"></i> About</a>
          </li>
          <li>
            <a href="page/enkripsi/"><i
class="fas fa-file-image"></i> Encode</a>
          </li>
          <li>
            <a href="page/dekripsi/"><i
class="fas fa-image"></i> Decode</a>
          </li>
        </ul>
      </div>

    </nav>
    <!-- /. NAV SIDE  -->
    <div id="page-wrapper" >
      <div id="page-inner">
        <div class="row">
          <div class="col-md-12">
            <h1 class="page-header">
              Home
            </h1>
          </div>
        </div>
        <div class="row">
          <div class="col-md-12">
            <div class="well">
              <h2 class="text-
center">APLIKASI KRIPTOGRAFI DAN
STEGANOGRAFI TEXT KE IMAGE</h2>
              <br><br>
              <div class="row">
                <div class="col-md-12">
                  <p style="text-align:
justify;">      Minimnya
tingkat keamanan Informasi dari sebuah
pesan menyebabkan seringkali pesan yang
ingin disampaikan tidak sampai keppada
penerima, melainkan jatuh ke tangan orang
lain yang tidak diinginkan. Untuk
menghindari hal tersebut, perlu dibuat
sebuah mekanisme dalam penyembunyian
pesan yaitu mengubah informasi menjadi
sesuatu yang tidak dapat dimengerti merupa
```

```
penyandian dan penyisipan menggunakan teknik kriptografi dan steganografi.</p>
                    <p style="text-align: justify;">      Hal inilah yang mendasari penelitian untuk membuat sebuah aplikasi yang dapat menyisipkan pesan ke dalam sebuah gambar dengan memberikan keamanan tanpa mengurangi ataupun merusak pesan pada gambar yaitu, Aplikasi Perpaduan Algoritma Enkripsi Base64 dengan metode Steganografi DCT.</p>
                  </div>
                </div>
                <div class="row">
                  <div class="col-md-6">
                    <a href="page/enkripsi/" class="btn btn-default btn-lg btn-block">Encode</a>
                  </div>
                  <div class="col-md-6">
                    <a href="page/dekripsi/" class="btn btn-default btn-lg btn-block">Decode</a>
                  </div>
                </div>
              </div>
            </div>
            <!-- /. ROW  -->
            <footer><p>&copy; Copyright 2021. Selpi</p></footer>
          </div>
          <!-- /. PAGE INNER  -->
        </div>
      <!-- /. PAGE WRAPPER  -->
      </div>
    <!-- /. WRAPPER  -->

    <!-- JS Scripts-->
    <!-- jQuery Js -->
    <script src="assets/js/jquery-1.10.2.js"></script>
    <!-- Bootstrap Js -->
    <script src="assets/js/bootstrap.min.js"></script>
    <!-- fontawesome -->
    <script src="https://kit.fontawesome.com/b744087c20.js" crossorigin="anonymous"></script>
    <!-- Metis Menu Js -->
    <script src="assets/js/jquery.metisMenu.js"></
```

Lampiran – 2 *Listing Program* Menu About

```
<!DOCTYPE html>
<html
xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta charset="utf-8" />
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0" />
  <title>StegaInsert</title>
<!-- Bootstrap Styles-->
  <link href="assets/css/bootstrap.css"
rel="stylesheet" />
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  <link href="assets/css/font-awesome.css"
rel="stylesheet" />
    <!-- Custom Styles-->
  <link href="assets/css/custom-styles.css"
rel="stylesheet" />
  <!-- Google Fonts-->
  <link
href='http://fonts.googleapis.com/css?family
=Open+Sans' rel='stylesheet' type='text/css'
/>
</head>
<body>
  <div id="wrapper">
    <nav class="navbar navbar-default top-
navbar" role="navigation">
      <div class="navbar-header">
          <button type="button"
class="navbar-toggle" data-
toggle="collapse" data-target=".sidebar-
collapse">
            <span class="sr-only">Toggle
navigation</span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
          </button>
          <a class="navbar-brand"
href="index.html">StegaInside</a>
      </div>
    </nav>
    <!--/. NAV TOP  -->
    <nav class="navbar-default navbar-side"
role="navigation">
      <div class="sidebar-collapse">
        <ul class="nav" id="main-menu">
          <li>
            <a href="index.php"><i class="fa
fa-dashboard"></i> Home</a>
          </li>
          <li>
            <a href="#" class="active-
menu"><i class="fas fa-address-card"></i>
About</a>
          </li>
          <li>
            <a href="page/enkripsi/"><i
class="fas fa-file-image"></i> Encode</a>
          </li>
          <li>
            <a href="page/dekripsi/"><i
class="fas fa-image"></i> Decode</a>
          </li>
        </ul>
      </div>

    </nav>
    <!-- /. NAV SIDE  -->
    <div id="page-wrapper" >
      <div id="page-inner">
        <div class="row">
          <div class="col-md-12">
            <h1 class="page-header">
                About
            </h1>
          </div>
        </div>
        <div class="row">
          <div class="col-md-12">
            <div class="well">
             <h2 class="text-
center">Aplikasi Perpaduan Enkripsi
Agoritma Base64 Dengan Metode
Steganografi Distrete Cosine Transform
(DCT)</h2>
              <br>
              <div class="row text-justify">
                <div class="col-md-4">
                  <img src="img/pio.jpg"
align="right" alt="foto" class="img-
thumbnail img-responsive" width="200">
                </div>
                <div class="col-md-6">
                  <table class="table table-
striped">
                    <tr>
                      <th
width="25%">Nama</th>
                      <td width="2%">:</td>
                      <td>Selpi</td>
                    </tr>
                    <tr>
                      <th>Nim</th>
                      <td>:</td>
```

```
                    <td>217 280 163</td>
                  </tr>
                  <tr>
                    <th>Alamat</th>
                    <td>:</td>
                    <td>Enrekang</td>
                  </tr>
                  <tr>
                    <th>Program
Studi</th>
                    <td>:</td>
                    <td>Teknik
Informatika</td>
                  </tr>
                  <tr>
                    <th>Kampus</th>
                    <td>:</td>
                    <td>Universitas
Muhammadiyah Parepare</td>
                  </tr>
                   <tr>
                    <th>Pembimbing
1</th>
                    <td>:</td>
                    <td>Hj. A. Irmayani P,
S.T., M.T</td>
                  </tr>
                   <tr>
                    <th>pembimbing
2</th>
                    <td>:</td>
                    <td>Masnur, S.T.,
M.Kom</td>
                  </tr>
                </table>
              </div>
            </div>
          </div>
        </div>
      </div>
        <!-- /. ROW  -->
        <footer><p>&copy; Copyright 2021.
Selpi</p></footer>
      </div>
        <!-- /. PAGE INNER  -->
      </div>
    <!-- /. PAGE WRAPPER  -->
    </div>
  <!-- /. WRAPPER  -->

  <!-- JS Scripts-->
  <!-- jQuery Js -->
  <script src="assets/js/jquery-
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  <!-- Bootstrap Js -->
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  <script
src="https://kit.fontawesome.com/b744087c
20.js" crossorigin="anonymous"></script>
  <!-- Metis Menu Js -->
  <script
src="assets/js/jquery.metisMenu.js"></script
>
  <!-- Custom Js -->
  <script src="assets/js/custom-
scripts.js"></script>

</body>
</html>
```

Lampiran – 3 *Listing Program* Encode, Base64,DCT,LSB

```
<!DOCTYPE html>
<html
xmlns="http://www.w3.org/1999/xhtml">

<head>
  <meta charset="utf-8" />
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0" />
  <title>StegaInsert</title>
  <!-- Bootstrap Styles-->
  <link href="../../assets/css/bootstrap.css"
rel="stylesheet" />
  <!-- FontAwesome Styles-->
  <link href="../../assets/css/font-
awesome.css" rel="stylesheet" />
  <!-- Custom Styles-->
  <link href="../../assets/css/custom-
styles.css" rel="stylesheet" />
  <!-- Google Fonts-->
  <link
href='http://fonts.googleapis.com/css?family
=Open+Sans' rel='stylesheet' type='text/css'
/>
  <style>
    .img {
      width: 250px;
      height: 250px;
    }
  </style>
  <script
src="../../dist/sweetalert2.all.min.js"></script
>
  <script type="text/javascript">
    const Toast = Swal.mixin({
      toast: true,
      position: 'top-end',
      showConfirmButton: false,
      timer: 2500,
      timerProgressBar: true,
      didOpen: (toast) => {
        toast.addEventListener('mouseenter',
Swal.stopTimer)
        toast.addEventListener('mouseleave',
Swal.resumeTimer)
      }
    })
  </script>
</head>

<body>
  <div id="wrapper">
    <nav class="navbar navbar-default top-
navbar" role="navigation">
      <div class="navbar-header">
        <button type="button"
class="navbar-toggle" data-
toggle="collapse" data-target=".sidebar-
collapse">
          <span class="sr-only">Toggle
navigation</span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a class="navbar-brand"
href="index.html">StegaInside</a>
      </div>
    </nav>
    <!--/. NAV TOP  -->
    <nav class="navbar-default navbar-side"
role="navigation">
      <div class="sidebar-collapse">
        <ul class="nav" id="main-menu">
          <li>
            <a href="../../"><i class="fa fa-
dashboard"></i> Home</a>
          </li>
          <li>
            <a href="../../about.php"><i
class="fas fa-address-card"></i> About</a>
          </li>
          <li>
            <a href="#" class="active-
menu"><i class="fas fa-file-image"></i>
Encode</a>
          </li>
          <li>
            <a href="../dekripsi/"><i
class="fas fa-image"></i> Decode</a>
          </li>
        </ul>
```

```
      </div>

    </nav>
    <!-- /. NAV SIDE  -->
    <div id="page-wrapper">
      <div id="page-inner">
        <div class="row">
          <div class="col-md-12">
            <h1 class="page-header">
              Enkripsi Base64
            </h1>
          </div>
        </div>
        <div class="row">
          <div class="col-md-12">
            <div class="well">
              <form method="POST">
                <div class="row">
                  <div class="col-md-6">
                    <div class="form-
group">
                      <label><i class="fas fa-
text-width"></i> Pesan Text</label>
                      <textarea name="pesan"
class="form-control" rows="3"
placeholder="pesan text ...."
required></textarea>
                    </div>
                  </div>
                  <div class="col-md-3">
                    <div class="form-
group">
                      <label><i class="fas fa-
key"></i> Password Pertama </label>
                      <input type="text"
name="key" class="form-control"
placeholder="kunci...." autocomplete="off"
required>
                    </div>
                  </div>
                </div>
                <div class="row">
                  <div class="col-md-6">
                    <!-- <input type="submit"
name="tombol" class="btn btn-primary"
value="Encode"> -->
                    <button type="submit"
name="tombol" class="btn btn-primary"><i
class="fas fa-file-code"></i>
Enkripsi</button>
                    <a href="../../" class="btn
btn-danger"><i class="fas fa-redo"></i>
Kembali</a>
                  </div>
                </div>
              </form>
              <br>
              <div class="row">
                <div class="col-md-12">

                  <?php

                  include
"../../lib/functionBase64.php";

                  if (isset($_POST['tombol']))
{

                    $text =
@$_POST['pesan'];
                    $key = @$_POST['key'];

                    // Petama adalah Proses
Encode pesan dan password pertama
menggunakan base64
                    $en =
encodeBase64($text, $key);

                  ?>

                    <script>
                      window.location.href =
'penyisipan.php?pbase64=<?= $en; ?>';
                    </script>

                  <?php

                  }
                  ?>
                </div>
              </div>
            </div>
          </div>
        </div>
        <!-- /. ROW  -->
        <footer>
```

```
            <p>&copy; Copyright 2021.
Selpi</p>
          </footer>
        </div>
        <!-- /. PAGE INNER  -->
      </div>
      <!-- /. PAGE WRAPPER  -->
    </div>
    <!-- /. WRAPPER  -->

    <!-- JS Scripts-->
    <!-- jQuery Js -->
    <script src="../../assets/js/jquery-
1.10.2.js"></script>
    <!-- Bootstrap Js -->
    <script
src="../../assets/js/bootstrap.min.js"></script
>
    <!-- fontawesome -->
    <script
src="https://kit.fontawesome.com/b744087c
20.js" crossorigin="anonymous"></script>
    <!-- Metis Menu Js -->
    <script
src="../../assets/js/jquery.metisMenu.js"></s
cript>
    <!-- Custom Js -->
    <script src="../../assets/js/custom-
scripts.js"></script>

</body>

</html>

<?php

// ini function langkah pertama
// function yang menerima 2 parameter yaitu
pesan dan password pertama
function encodeBase64($pesan, $password)
{

            // pesan di encode base64
            $pesan64 =
base64_encode($pesan);
            // password pertama di encode
base64
            $pass64 =
base64_encode($password);

            // pesan dan password di sambung
dan di beri pemisah kode |SELPI|
            // lalu dimasukkan kedalam
variabel $sambung
            $sambung = $pesan64 . "|SELPI|" .
$pass64;

            // lalu mengembalikan variabel
$sambung
            return $sambung;
}

// ini function proses decodebase64 yang
menerima 2 parameter
// yaitu parameter pertama adalah pesan yg
sudah terencode dan parameter kedua adalah
password pertama yang diinput
function decodeBase64($pesanEncode,
$pass) {
            $potong = explode("|SELPI|",
$pesanEncode);
            $passwordnya = $potong[1];
            $pesannya = $potong[0];

            $decodePass =
base64_decode($passwordnya);
            $decodePesan =
base64_decode($pesannya);

            if ($decodePass != $pass) {
                        return false;
            } else {
                        return $decodePesan;
            }
}

<?php

function mkDCT($dst, $src, $N)
{
   $pi = 3.14159265358979323846;
   for ($k = 0; $k < $N; $k++) {
      $dst[$k] = 0;
      for ($n = 0; $n < $N; $n++) {
```

```
            $dst[$k] += $src[$n] * cos($pi * $k /
$N * ($n + 0.5));
        }
    }
    return $dst;
}

function valueColor($c)
{
    if ($c > 255) {
        return 255;
    }
    if ($c < 0) {
        return 0;
    }
    return $c;
}

function mkIDCT($dst, $src, $N)
{
    $pi = 3.14159265358979323846;
    for ($k = 0; $k < $N; $k++) {
        $dst[$k] = $src[0] / 2;
        for ($n = 1; $n < $N; $n++) {
            $dst[$k] += $src[$n] * cos($pi * $n /
$N * ($k + 0.5));
        }
        $dst[$k] = $dst[$k] * 2 / $N;
    }
    return $dst;
}

// ini adalah function DCTnya yang
menerima 2 parameter
function imageDCT($path,
$name_dot_extention)
{
    $img = file_get_contents($path);

    $info = getimagesizefromstring($img);

    $ext = explode("/", $info["mime"]);
    $ext = end($ext);

    $resource = imagecreatefromstring($img);
    $width = $info[0];
    $height = $info[1];

    $image = imagecreatetruecolor($width,
$height);
    imagealphablending($image, true);

    for ($w = 0; $w < $width; $w++) {
        $red = array();
        $green = array();
        $blue = array();
        for ($h = 0; $h < $height; $h++) {

            $color = imagecolorat($resource, $w,
$h);

            $r = (($color) >> 16) & 0xFF;
            $g = (($color) >> 8) & 0xFF;
            $b = ($color) & 0xFF;

            $red[$h] = $r;
            $green[$h] = $g;
            $blue[$h] = $b;
        }

        // dct encode
        $merah = mkDCT(array(), $red,
count($red));
        $hijau = mkDCT(array(), $green,
count($green));
        $biru = mkDCT(array(), $blue,
count($blue));

        // dct decode
        // komentar ini yg tiga perintah dibawa
kalo mau muliat hasil encode nya saja
        $merah = mkIDCT(array(), $merah,
count($merah));
        $hijau = mkIDCT(array(), $hijau,
count($hijau));
        $biru = mkIDCT(array(), $biru,
count($biru));

        for ($h = 0; $h < $height; $h++) {
            $r = valueColor($merah[$h]);
            $g = valueColor($hijau[$h]);
            $b = valueColor($biru[$h]);

            $val = imagecolorallocate($image,
$r, $g, $b);
            imagesetpixel($image, $w, $h, $val);
```

```
        }
    }

    imagesavealpha($image, false);

    imagebmp($image, $name_dot_extention,
false);

    imagedestroy($image);
}

function reImg($fileImg, $name)
{

    $filename = $fileImg;
    $data = getimagesize($filename);
    $width = $data[0];
    $height = $data[1];

    if ($width > 400 || $height > 400) {
        list($wi, $he) =
getimagesize($filename);

        if ($wi <= 400) {
            $newwidth = $wi;
        } else {
            // menentukan width yang baru
            $newwidth = 400;
        }

        if ($he <= 400) {
            $newheight = $he;
        } else {
            // menentukan height yang baru
            $newheight = 400;
        }

        // fungsi untuk membuat image yang
baru
        $source =
imagecreatefrompng($filename);
        $thumb =
imagecreatetruecolor($newwidth,
$newheight);

        // men-resize image yang baru
        imagecopyresized($thumb, $source, 0,
0, 0, 0, $newwidth, $newheight, $wi, $he);
        // menyimpan image yang baru
        imagepng($thumb, 'hasil_resize/' .
$name);
    } else {

        copy($fileImg, 'hasil_resize/' . $name);
    }
}
```

```
<?php

class DCT
{
  public $name;
  public $type;

  public $location;
  public $resource;
  public $space;

  public $width;
  public $height;

  public function __construct(String
$location = null, int $length = 1)
  {
    if ($location === null) {
      echo ('<p><b>new DCT("???") <br>
Parameter <u>LOCATION</u> tidak boleh
kosong</b></p>');
      return false;
    }

    if (!file_exists($location)) {
      echo ('<p><b>Gambar <u>' . $location
. '</u> tidak ditemukan</b></p>');
      exit;
    }

    $this->location = $location;

    $name = explode("/", $location);
    $name = end($name);
    $ext = explode(".", $name);
    $ext = end($ext);
```

```
    $this->name = $name;
    $this->type = $ext;

    $this->resource =
imagecreatefromstring(file_get_contents($lo
cation));

    $this->width = imagesx($this-
>resource);
    $this->height = imagesy($this-
>resource);

    $this->space = ($this->width * $this-
>height) * ($length + $length + $length);
  }

  public static function space($password,
$teks)
  {
    // return array("password" =>
strlen($teks) * 8 + 8, "teks" => strlen($teks)
* 8 + 8);
    return (strlen($password) * 8 + 8 + 8) +
(strlen($teks) * 8 + 8 + 8);
  }


  // function untuk enkripsi yang menerima
3 parameter
  public function enkripsi($password, $teks,
$location = "")
  {
    $string = '';

    $pass = '';
    for ($i = 0; $i < strlen($password); $i++)
{
      $pass .=
str_pad(decbin(ord($password[$i])), 8, "0",
STR_PAD_LEFT);
    }
    $string .= $pass;
    $string .= str_pad(decbin(ord("|")), 8,
"0", STR_PAD_LEFT);
    $string .= str_pad(decbin(ord("|")), 8,
"0", STR_PAD_LEFT);

    $link = '';
    for ($i = 0; $i < strlen($teks); $i++) {
      $link .= str_pad(decbin(ord($teks[$i])),
8, "0", STR_PAD_LEFT);
    }
    $string .= $link;
    $string .= str_pad(decbin(ord("|")), 8,
"0", STR_PAD_LEFT);
    $string .= str_pad(decbin(ord("|")), 8,
"0", STR_PAD_LEFT);

    $no = 0;
    $resource = $this->resource;
    $width = $this->width;
    $height = $this->height;
    $image = imagecreatetruecolor($width,
$height);
    imagealphablending($image, false);
    for ($w = 0; $w < $width; $w++) {
      for ($h = 0; $h < $height; $h++) {
        $color = imagecolorat($resource, $w,
$h);
        $r = (($color) >> 16) & 0xFF;
        $g = (($color) >> 8) & 0xFF;
        $b = ($color) & 0xFF;
        // $r = bindec(substr(sprintf( "%08d",
decbin($r)), 0 , 7) . substr($string,$no++,1));
        // $g = bindec(substr(sprintf(
"%08d", decbin($g)), 0 , 7) .
substr($string,$no++,1));
        // $b = bindec(substr(sprintf(
"%08d", decbin($b)), 0 , 7) .
substr($string,$no++,1));
        $r = bindec(substr(sprintf("%08d",
decbin($r)), 0, 7) . ($string[$no++] ?? "0"));
        $g = bindec(substr(sprintf("%08d",
decbin($g)), 0, 7) . ($string[$no++] ?? "0"));
        $b = bindec(substr(sprintf("%08d",
decbin($b)), 0, 7) . ($string[$no++] ?? "0"));
        $val = imagecolorallocate($image,
$r, $g, $b);
        imagesetpixel($image, $w, $h, $val);
      }
    }
    // imagebmp($image, $location . $this-
>name, 0);
    imagepng($image, $location . $this-
>name, 9);
    imagedestroy($image);
```

```
  }


  // function dekripsi yang menerima 1
parameter
  public function dekripsi($password)
  {
    $width = $this->width;
    $height = $this->height;
    $resource = $this->resource;

    $strings = "";
    for ($w = 0; $w < $width; $w++) {

      for ($h = 0; $h < $height; $h++) {
        $color = imagecolorat($resource, $w,
$h);
        $r = (($color) >> 16) & 0xFF;
        $r = substr(sprintf("%08d",
decbin($r)), 7, 1);
        $g = (($color) >> 8) & 0xFF;
        $g = substr(sprintf("%08d",
decbin($g)), 7, 1);
        $b = ($color) & 0xFF;
        $b = substr(sprintf("%08d",
decbin($b)), 7, 1);
        $strings .= $r . $g . $b;
      }
    }

    $strings = str_split($strings, 8);
    $string = "";

    foreach ($strings as $value) {
      $string .= chr(bindec($value));
    }

    $string = explode("||", $string);

    $p = $string[0];
    $l = $string[1];
    $string = null;

    if ($p != $password) {
      return false;
    } else {
      return $l;
    }
  }
}
```

```
<?php
$dir = "hasil/";
$filename = @$_GET['file'];
$file_path = $dir . $filename;
$ctype = "application/octet-stream";

if (!empty($file_path) &&
file_exists($file_path)) { //check keberadaan
file
        header("Pragma:public");
        header("Expired:0");
        header("Cache-Control:must-
revalidate");
        header("Content-Control:public");
        header("Content-Description: File
Transfer");
        header("Content-Type: $ctype");
        header("Content-
Disposition:attachment; filename=\"" .
basename($file_path) . "\"");
        header("Content-Transfer-
Encoding:binary");
        header("Content-Length:" .
filesize($file_path));
        flush();
        readfile($file_path);
        // exit;
} else {
        echo "The File does not exist.";
}

// $files = glob('fileImg/*.jpg');
// $hasilImg = glob('hasil/*.jpg');
// $imgDCT = glob('hasil_dct/*.jpg');

$files = glob('fileImg/*.png');
$hasilImg = glob('hasil/*.png');
$imgDCT = glob('hasil_dct/*.png');
$imgReize = glob('hasil_resize/*.png');

foreach ($files as $file) {
        if (is_file($file)) {
                unlink($file);
        }
}
```

```
foreach ($hasilImg as $fileImg) {
	if (is_file($fileImg)) {
		unlink($fileImg);
	}
}

foreach ($imgDCT as $dct) {
	if (is_file($dct)) {
		unlink($dct);
	}
}

foreach ($imgReize as $resize) {
	if (is_file($resize)) {
		unlink($resize);
	}
}

  // if (file_exists($file_path)) {
  //    unlink($file_path);
  // }
```

Lampiran – 4 *Listring Progrram Decode*

```
<?php
include "../../lib/Slip.php";
include "../../lib/functionDCT.php";
?>
<!DOCTYPE html>
<html
xmlns="http://www.w3.org/1999/xhtml">

<head>
  <meta charset="utf-8" />
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0" />
  <title>StegaInsert</title>
  <!-- Bootstrap Styles-->
  <link href="../../assets/css/bootstrap.css"
rel="stylesheet" />
  <!-- FontAwesome Styles-->
  <link href="../../assets/css/font-
awesome.css" rel="stylesheet" />
  <!-- Custom Styles-->
  <link href="../../assets/css/custom-
styles.css" rel="stylesheet" />
  <!-- Google Fonts-->
  <link
href='http://fonts.googleapis.com/css?family
=Open+Sans' rel='stylesheet' type='text/css'
/>
  <style>
    .img {
      width: 250px;
      height: 250px;
    }
  </style>
  <script
src="../../dist/sweetalert2.all.min.js"></script
>
</head>

<body>
  <div id="wrapper">
    <nav class="navbar navbar-default top-
navbar" role="navigation">
      <div class="navbar-header">
        <button type="button"
class="navbar-toggle" data-
```

```
toggle="collapse" data-target=".sidebar-collapse">
            <span class="sr-only">Toggle navigation</span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
          </button>
          <a class="navbar-brand" href="index.html">StegaInside</a>
        </div>
      </nav>
      <!--/. NAV TOP  -->
      <nav class="navbar-default navbar-side" role="navigation">
        <div class="sidebar-collapse">
          <ul class="nav" id="main-menu">
            <li>
              <a href="../../"><i class="fa fa-dashboard"></i> Home</a>
            </li>
            <li>
              <a href="../../about.php"><i class="fas fa-address-card"></i> About</a>
            </li>
            <li>
              <a href="../enkripsi/"><i class="fas fa-file-image"></i> Encode</a>
            </li>
            <li>
              <a href="#" class="active-menu"><i class="fas fa-image"></i> Decode</a>
            </li>
          </ul>
        </div>

      </nav>
      <!-- /. NAV SIDE  -->
      <div id="page-wrapper">
        <div id="page-inner">
          <div class="row">
            <div class="col-md-12">
              <h1 class="page-header">
                Decode
              </h1>
            </div>
          </div>
          <div class="row">
            <div class="col-md-12">
              <div class="well">
                <form method="POST" enctype="multipart/form-data">
                  <div class="row">
                    <div class="col-md-5">
                      <div class="form-group">
                        <label><i class="fas fa-image"></i> Image Cover</label>
                        <input type="file" name="foto" id="file" onchange="return fileValidation()" required>
                        <br>
                        <!-- Image preview -->
                        <div id="imagePreview"></div>
                      </div>
                    </div>
                    <div class="col-md-6">
                      <div class="row">
                        <div class="col-md-6">
                          <div class="form-group">
                            <label><i class="fas fa-key"></i> Password Kedua </label>
                            <input type="text" name="key" class="form-control" placeholder="kunci...." autocomplete="off" required>
                          </div>
                        </div>
                      </div>
                    </div>
                  </div>
                  <div class="row">
                    <div class="col-md-6">
                      <!-- <input type="submit" name="tombol" class="btn btn-primary" value="Decode"> -->
                      <button type="submit" name="tombol" class="btn btn-primary"><i class="fas fa-file-code"></i> Decode</button>
                      <a href="../../" class="btn btn-danger"><i class="fas fa-redo"></i> Kembali</a>
```

```
                </div>
              </div>
            </form>

            <?php

            if (isset($_POST['tombol'])) {

              // input cover image yang sudah disisipkan pesan
              $imageName = $_FILES['foto']['name'];
              $imageTmp = $_FILES['foto']['tmp_name'];
              $imageType = $_FILES['foto']['type'];
              $imageSize = $_FILES['foto']['size'];

              // input password kedua
              $key = @$_POST['key'];

              if ($imageTmp == "") {

            ?>

                <script>
                  Swal.fire({
                    icon: 'error',
                    title: 'Maaf!',
                    text: 'Image cover anda tidak mengembalikan nilai',
                    showConfirmButton: false,
                    timer: 2500
                  });
                </script>

                <?php

              } else {

                // proses melihat pesan yang ada didalam image cover yang sudah diEncode
                $gambar = new DCT($imageTmp);
                $hasil = $gambar->dekripsi($key);

                if ($hasil) {

                ?>

                  <script>
                    window.location.href = 'decodePesan.php?code=<?= $hasil; ?>';
                  </script>

                <?php

                } else {

                ?>

                  <script>
                    Swal.fire({
                      icon: 'error',
                      title: 'Maaf!',
                      text: 'Password yang anda masukkan untuk tahap ini salah',
                      showConfirmButton: false,
                      timer: 2500
                    });
                  </script>

            <?php
                }
              }
            }

            ?>

          </div>
        </div>
        <!-- /. ROW  -->
        <footer>
          <p>&copy; Copyright 2021. Selpi</p>
        </footer>
      </div>
      <!-- /. PAGE INNER  -->
    </div>
```

```
    <!-- /. PAGE WRAPPER  -->
  </div>
  <!-- /. WRAPPER  -->

  <!-- JS Scripts-->
  <!-- jQuery Js -->
  <script src="../../assets/js/jquery-
1.10.2.js">
    < /> <!--Bootstrap Js-- > <
    script src =
"../../assets/js/bootstrap.min.js" >
  </script>
  <!-- fontawesome -->
  <script
src="https://kit.fontawesome.com/b744087c
20.js" crossorigin="anonymous"></script>
  <!-- Metis Menu Js -->
  <script
src="../../assets/js/jquery.metisMenu.js"></s
cript>
  <!-- Custom Js -->
  <script src="../../assets/js/custom-
scripts.js"></script>
  <!-- Image Muncul Ketika dipilih -->
  <script type="text/javascript">
    function fileValidation() {
      var fileInput =
document.getElementById('file');
      var filePath = fileInput.value;
      var allowedExtensions =
/(\.jpg|\.jpeg|\.png|\.gif)$/i;
      if (!allowedExtensions.exec(filePath))
{
        alert('Please upload file having
extensions .jpeg/.jpg/.png/.gif only.');
        fileInput.value = '';
        return false;
      } else {
        //Image preview
        if (fileInput.files &&
fileInput.files[0]) {
          var reader = new FileReader();
          reader.onload = function(e) {

document.getElementById('imagePreview').i
nnerHTML = '<img src="' + e.target.result +
'" class="img img-thumbnail"/>';
          };
reader.readAsDataURL(fileInput.files[0]);
        }
      }
    }
  </script>

</body>

</html>

<?php
include "../../lib/functionBase64.php";

$code = @$_GET['code'];

?>
<!DOCTYPE html>
<html
xmlns="http://www.w3.org/1999/xhtml">

<head>
  <meta charset="utf-8" />
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0" />
  <title>StegaInsert</title>
  <!-- Bootstrap Styles-->
  <link href="../../assets/css/bootstrap.css"
rel="stylesheet" />
  <!-- FontAwesome Styles-->
  <link href="../../assets/css/font-
awesome.css" rel="stylesheet" />
  <!-- Custom Styles-->
  <link href="../../assets/css/custom-
styles.css" rel="stylesheet" />
  <!-- Google Fonts-->
  <link
href='http://fonts.googleapis.com/css?family
=Open+Sans' rel='stylesheet' type='text/css'
/>
  <style>
    .img {
      width: 250px;
      height: 250px;
    }
  </style>
```

```
  <script
src="../../dist/sweetalert2.all.min.js"></script
>
</head>

<body>
  <div id="wrapper">
    <nav class="navbar navbar-default top-
navbar" role="navigation">
      <div class="navbar-header">
        <button type="button"
class="navbar-toggle" data-
toggle="collapse" data-target=".sidebar-
collapse">
          <span class="sr-only">Toggle
navigation</span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a class="navbar-brand"
href="index.html">StegaInside</a>
      </div>
    </nav>
    <!--/. NAV TOP  -->
    <nav class="navbar-default navbar-side"
role="navigation">
      <div class="sidebar-collapse">
        <ul class="nav" id="main-menu">
          <li>
            <a href="../../"><i class="fa fa-
dashboard"></i> Home</a>
          </li>
          <li>
            <a href="../../about.php"><i
class="fas fa-address-card"></i> About</a>
          </li>
          <li>
            <a href="../enkripsi/"><i
class="fas fa-file-image"></i> Encode</a>
          </li>
          <li>
            <a href="#" class="active-
menu"><i class="fas fa-image"></i>
Decode</a>
          </li>
        </ul>
      </div>
    </nav>
    <!-- /. NAV SIDE  -->
    <div id="page-wrapper">
      <div id="page-inner">
        <div class="row">
          <div class="col-md-12">
            <h1 class="page-header">
              Dekripsi Base64
            </h1>
          </div>
        </div>
        <div class="row">
          <div class="col-md-12">
            <div class="well">
              <form method="POST"
enctype="multipart/form-data">
                <div class="row">
                  <div class="col-md-5">
                    <div class="form-
group">
                      <label><i class="fas fa-
text-width"></i> Kode Pesan </label>
                      <textarea name="pesan"
class="form-control" rows="3"
readonly><?= $code; ?></textarea>
                    </div>
                  </div>
                  <div class="col-md-6">
                    <div class="row">
                      <div class="col-md-6">
                        <div class="form-
group">
                          <label><i class="fas
fa-key"></i> Password Pertama </label>
                          <input type="text"
name="key" class="form-control"
placeholder="kunci...." autocomplete="off"
required>
                        </div>
                      </div>
                    </div>
                  </div>
                  <div class="row">
                    <div class="col-md-6">
```

```
                    <!-- <input type="submit"
name="tombol" class="btn btn-primary"
value="Decode"> -->
                    <button type="submit"
name="tombol" class="btn btn-primary"><i
class="fas fa-file-code"></i>
Dekripsi</button>
                    <a href="index.php"
class="btn btn-danger"><i class="fas fa-
redo"></i> Kembali</a>
                  </div>
                </div>
              </form>

              <?php

              if (isset($_POST['tombol'])) {

                // ini pesan yang tersembunyi
didalam cove image
                $pesan = @$_POST['pesan'];

                // input password pertama
                $key = @$_POST['key'];

                // proses decode base64 untuk
pesan yang tersembunyi
                $de = decodeBase64($pesan,
$key);

                if ($de == false) {

              ?>

                  <script>
                    Swal.fire({
                      icon: 'error',
                      title: 'Maaf!',
                      text: 'Password yang
anda masukkan untuk tahap ini salah',
                      showConfirmButton:
false,
                      timer: 2500
                    });
                  </script>

              <?php
                } else {

                  echo "
                    <br>
                    <div class='row'>
                      <div class='col-md-12'>
                        <div class='form-
group'>
                          <label><i class='fas
fa-text-width'></i> Pesan
Tersembunyi</label>
                          <textarea
class='form-control' rows='7'
readonly>$de</textarea>
                        </div>
                      </div>
                    </div>
                  ";
                }
              }

              ?>

            </div>
          </div>
          <!-- /. ROW  -->
          <footer>
            <p>&copy; Copyright 2021.
Selpi</p>
          </footer>
        </div>
        <!-- /. PAGE INNER  -->
      </div>
      <!-- /. PAGE WRAPPER  -->
    </div>
    <!-- /. WRAPPER  -->

    <!-- JS Scripts-->
    <!-- jQuery Js -->
    <script src="../../assets/js/jquery-
1.10.2.js">
      < /> <!--Bootstrap Js-- > <
      script src =
"../../assets/js/bootstrap.min.js" >
    </script>
    <!-- fontawesome -->
```