

LAMPIRAN – LAMPIRAN

LAMPIRAN QUERY BASIS DATA SISTEM

```
1. SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
2. SET AUTOCOMMIT = 0;
3. START TRANSACTION;
4. SET time_zone = "+00:00";
5.
6. --
7. -- Database: `db_sistem`
8. --
9.
10. -- -----
11.
12. --
13. -- Struktur dari tabel `tbl_alternatif`
14. --
15.
16. CREATE TABLE `tbl_alternatif` (
17.   `alternatif_id` int(11) NOT NULL,
18.   `alternatif_nama` varchar(30) NOT NULL,
19.   `kriteria_1` int(11) NOT NULL,
20.   `kriteria_2` int(11) NOT NULL,
21.   `kriteria_3` int(11) NOT NULL,
22.   `kriteria_4` int(11) NOT NULL,
23.   `id_user` int(10) NOT NULL
24. ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
25.
26. -- -----
27.
28. --
29. -- Struktur dari tabel `tbl_bobot`
30. --
31.
32. CREATE TABLE `tbl_bobot` (
33.   `id_bobot` int(11) NOT NULL,
34.   `bobot_kriteria1` double NOT NULL,
35.   `bobot_kriteria2` double NOT NULL,
36.   `bobot_kriteria3` double NOT NULL,
37.   `bobot_kriteria4` double NOT NULL,
38.   `id_user` int(11) NOT NULL
39. ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
40.
41. -- -----
42. --
43. -- Struktur dari tabel `tbl_user`
44. --
45. CREATE TABLE `tbl_user` (
46.   `user_id` int(11) NOT NULL,
47.   `user_name` varchar(30) NOT NULL,
48.   `user_email` varchar(60) NOT NULL,
49.   `user_password` varchar(60) NOT NULL,
50.   `user_level` varchar(5) NOT NULL,
51.   `status` int(1) NOT NULL
52. ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```

53.
54. --
55. -- Indeks untuk tabel `tbl_alternatif`
56. --
57. ALTER TABLE `tbl_alternatif`
58.   ADD PRIMARY KEY (`alternatif_id`),
59.   ADD KEY `id_user` (`id_user`);
60.
61. --
62. -- Indeks untuk tabel `tbl_bobot`
63. --
64. ALTER TABLE `tbl_bobot`
65.   ADD PRIMARY KEY (`id_bobot`),
66.   ADD KEY `id_user` (`id_user`);
67.
68. --
69. -- Indeks untuk tabel `tbl_user`
70. --
71. ALTER TABLE `tbl_user`
72.   ADD PRIMARY KEY (`user_id`);
73.
74. --
75. -- AUTO_INCREMENT untuk tabel `tbl_alternatif`
76. --
77. ALTER TABLE `tbl_alternatif`
78.   MODIFY `alternatif_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=0;
79.
80. --
81. -- AUTO_INCREMENT untuk tabel `tbl_bobot`
82. --
83. ALTER TABLE `tbl_bobot`
84.   MODIFY `id_bobot` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=0;
85.
86. --
87. -- AUTO_INCREMENT untuk tabel `tbl_user`
88. --
89. ALTER TABLE `tbl_user`
90.   MODIFY `user_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=0;
91.
92. --
93. -- Ketidakeleluasaan untuk tabel `tbl_alternatif`
94. --
95. ALTER TABLE `tbl_alternatif`
96.   ADD CONSTRAINT `tbl_alternatif_ibfk_1` FOREIGN KEY (`id_user`) REFERENCES `tbl_user` (`user_id`);
97.
98. --
99. -- Ketidakeleluasaan untuk tabel `tbl_bobot`
100. --
101. ALTER TABLE `tbl_bobot`
102.   ADD CONSTRAINT `tbl_bobot_ibfk_1` FOREIGN KEY (`id_user`) REFERENCES `tbl_user` (`user_id`);

```

```
103.      COMMIT;
104.
105.      /*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT
    */;
106.      /*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULT
    S */;
107.      /*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION
    */;
```

LAMPIRAN SOURCE CODE APLIKASI

Lampiran sourcode dashboard

Lampiran source code dashboard.php (controller)

```
1. <?php
2. defined('BASEPATH') or exit('No direct script access allowed');
3.
4. class Dashboard extends CI_Controller
5. {
6.     public function index()
7.     {
8.         if ($this->session-
9. >userdata('user_level') === 'admin') {
10.             $data['_view'] = 'dashboard';
11.             $this->load->view('layouts/main', $data);
12.         } elseif ($this->session-
13. >userdata('user_level') === 'user') {
14.             $data['_view'] = 'dashboard';
15.             $this->load->view('layouts/main', $data);
16.         } else {
17.             echo "Access Denied";
18.             redirect('login/index');
19.         }
20.     }
21. }
```

Lampiran source code main.php

```
1. <!DOCTYPE html>
2. <html>
3.
4. <head>
5.     <meta charset="utf-8">
6.     <meta http-equiv="X-UA-Compatible" content="IE=edge">
7.     <title>AdminLTE 3 | Dashboard</title>
8.     <!-- Tell the browser to be responsive to screen width -->
9.     <meta name="viewport" content="width=device-width, initial-
10. scale=1">
11.     <!-- Font Awesome -->
12.     <link rel="stylesheet" href="<?php echo site_url('resources/pl
13. ugs/fontawesome-free/css/all.min.css'); ?>">
14.     <!-- Ionicons -->
15.     <link rel="stylesheet" href="https://code.ionicframework.com/i
16. onicons/2.0.1/css/ionicons.min.css">
17.     <!-- Tempusdominus Bootstrap 4 -->
18.     <link rel="stylesheet" href="<?php echo site_url('resources/pl
19. ugs/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-
```

```

4.min.css'); ?>">
16. <!-- iCheck -->
17. <link rel="stylesheet" href="<?php echo site_url('resources/pl
    uugins/ichack-bootstrap/ichack-bootstrap.min.css'); ?>">
18. <!-- JQVMap -->
19. <link rel="stylesheet" href="<?php echo site_url('resources/pl
    uugins/jqvmap/jqvmap.min.css'); ?>">
20. <!-- Theme style -->
21. <link rel="stylesheet" href="<?php echo site_url('resources/cs
    s/adminlte.min.css'); ?>">
22. <!-- overlayScrollbars -->
23. <link rel="stylesheet" href="<?php echo site_url('resources/pl
    uugins/overlayScrollbars/css/OverlayScrollbars.min.css'); ?>">
24. <!-- Daterange picker -->
25. <link rel="stylesheet" href="<?php echo site_url('resources/pl
    uugins/daterangepicker/daterangepicker.css'); ?>">
26. <!-- summernote -->
27. <link rel="stylesheet" href="<?php echo site_url('resources/pl
    uugins/summernote/summernote-bs4.css'); ?>">
28. <link rel="stylesheet" href="<?php echo site_url('resources/pl
    uugins/datatables-bs4/css/dataTables.bootstrap4.css'); ?>">
29. <!-- Google Font: Source Sans Pro -->
30. <link href="https://fonts.googleapis.com/css?family=Source+Sans
    Pro:300,400,400i,700" rel="stylesheet">
31. </head>
32.
33. <body class="hold-transition sidebar-mini layout-fixed">
34. <div class="wrapper">
35.
36. <!-- Navbar -->
37. <nav class="main-header navbar navbar-expand navbar-
    white navbar-light">
38. <!-- Left navbar links -->
39. <ul class="navbar-nav">
40. <li class="nav-item">
41. <a class="nav-link" data-
    widget="pushmenu" href="#"><i class="fas fa-bars"></i></a>
42. </li>
43. </ul>
44. <!-- Right navbar links -->
45. <ul class="navbar-nav ml-auto">
46. <li class="nav-item">
47. <a class="nav-link" data-widget="control-
    sidebar" data-slide="true" href="#">
48. <i class="fas fa-th-large"></i>
49. </a>
50. </li>
51. </ul>
52. </nav>
53. <!-- /.navbar -->
54. <!-- Main Sidebar Container -->
55. <aside class="main-sidebar sidebar-dark-primary elevation-
    4">
56. <!-- Brand Logo -->
57. <a href="index3.html" class="brand-link">

```

```

58.         
59.         <span class="brand-text font-weight-
light">Aplikasi Entropy</span>
60.         </a>
61.
62.         <!-- Sidebar -->
63.         <div class="sidebar">
64.             <!-- Sidebar user panel (optional) -->
65.             <div class="user-panel mt-3 pb-3 mb-3 d-flex">
66.                 <div class="image">
67.                     
68.                 </div>
69.                 <div class="info">
70.                     <a href="#" class="d-block"><? = $this-
>session->userdata('user_name'); ?></a>
71.                 </div>
72.             </div>
73.             <?php if ($this->session-
>userdata('user_level') == 'admin') { ?>
74.                 <nav class="mt-2">
75.                     <ul class="nav nav-pills nav-sidebar flex-
column" data-widget="treeview" role="menu" data-
accordion="false">
76.
77.                         <a href="<? = site_url('dashboard/index
'); ?>" class="nav-link active">
78.                             <i class="nav-icon fas fa-
tachometer-alt"></i>
79.                             <p>
80.                                 Dashboard
81.                             </p>
82.                         </a>
83.
84.                         <li class="nav-item">
85.                             <a href="<?php echo site_url('tbl_
user'); ?>" class="nav-link">
86.                                 <i class="nav-icon fas fa-
user-circle"></i>
87.                                 <p>
88.                                     Data User
89.                                 </p>
90.                             </a>
91.                         </li>
92.                         <li class="nav-item has-treeview">
93.                             <a href="<?php echo site_url('tbl_
alternatif'); ?>" class="nav-link">
94.                                 <i class="nav-icon fas fa-
file-alt"></i>
95.                                 <p>
96.                                     Data Alternatif
97.                                 </p>

```

```

98.                 </a>
99.             </li>
100.            <li class="nav-item has-
treeview">
101.                <a href="<?php echo site_ur
l('proses_entropy'); ?>" class="nav-link">
102.                    <i class="nav-
icon fas fa-edit"></i>
103.                <p>
104.                    Proses Entropy
105.                </p>
106.            </a>
107.        </li>
108.        <li class="nav-item has-
treeview">
109.            <a href="<?php echo site_ur
l('login/logout'); ?>" class="nav-link">
110.                <i class="nav-
icon fas fa-sign-out-alt"></i>
111.            <p>
112.                Sign Out
113.            </p>
114.        </a>
115.    </li>
116. </ul>
117. </nav>
118. <?php } elseif ($this->session-
>userdata('user_level') === 'user') { ?>
119.     <nav class="mt-2">
120.         <ul class="nav nav-pills nav-
sidebar flex-column" data-widget="treeview" role="menu" data-
accordion="false">
121.
122.             <a href="<?php echo site_url('dashboar
d/index'); ?>" class="nav-link active">
123.                 <i class="nav-icon fas fa-
tachometer-alt"></i>
124.             <p>
125.                 Dashboard
126.             </p>
127.         </a>
128.         <li class="nav-item has-
treeview">
129.             <a href="<?php echo site_ur
l('tbl_alternatif/index_user'); ?>" class="nav-link">
130.                 <i class="nav-
icon fas fa-file-alt"></i>
131.             <p>
132.                 Data Alternatif
133.             </p>
134.         </a>
135.     </li>
136.     <li class="nav-item has-
treeview">
137.         <a href="<?php echo site_ur

```



```

138.         l('proses_entropy/proses_user'); ?>" class="nav-link">
139.             <i class="nav-
140.                 icon fas fa-edit"></i>
141.                 <p>
142.                     Proses Entropy
143.                 </p>
144.                 </a>
145.                 </li>
146.                 <li class="nav-item has-
147.                     treeview">
148.                         <a href="<?php echo site_ur
149.                             l('login/logout'); ?>" class="nav-link">
150.                             <i class="nav-
151.                                 icon fas fa-sign-out-alt"></i>
152.                                 <p>
153.                                     Sign Out
154.                                 </p>
155.                                 </a>
156.                                 </li>
157.                             </ul>
158.                             </nav>
159.                             <?php } ?>
160.                             <!-- Sidebar Menu -->
161.                             <!-- /.sidebar-menu -->
162.                             </div>
163.                             <!-- /.sidebar -->
164.                         </aside>
165.                         <!-- Content Wrapper. Contains page content -->
166.                         <div class="content-wrapper">
167.                             <!-- Content Header (Page header) -->
168.                             <?php
169.                             if (isset($_view) && $_view)
170.                                 $this->load->view($_view);
171.                             ?>
172.                             <!-- /.content -->
173.                         </div>
174.                         <!-- /.content-wrapper -->
175.                         <footer class="main-footer">
176.                             <strong>Copyright © 2020</strong>
177.                             All rights reserved.
178.                             <div class="float-right d-none d-sm-inline-
179.                                 block">
180.                                     <b>Version</b> 1.0
181.                                 </div>
182.                             </footer>
183.                         </div>
184.                         <!-- ./wrapper -->
185.
186.                         <!-- jQuery -->
187.                         <script src="<?php echo site_url('resources/plugins/jqu
188.                             ery/jquery.min.js'); ?>"></script>
189.                         <!-- jQuery UI 1.11.4 -->
190.                         <script src="<?php echo site_url('resources/plugins/jqu
191.                             ery-ui/jquery-ui.min.js'); ?>"></script>

```

```

185.         <!--
            Resolve conflict in jQuery UI tooltip with Bootstrap tooltip --
        >
186.         <script>
187.             $.widget.bridge('uibutton', $.ui.button)
188.         </script>
189.         <!-- Bootstrap 4 -->
190.         <script src="<?php echo site_url('resources/plugins/boo
            tstrap/js/bootstrap.bundle.min.js'); ?>"></script>
191.         <!-- ChartJS -->
192.         <script src="<?php echo site_url('resources/plugins/cha
            rt.js/Chart.min.js'); ?>"></script>
193.         <!-- Sparkline -->
194.         <script src="<?php echo site_url('resources/plugins/spa
            rklines/sparkline.js'); ?>"></script>
195.         <!-- JQVMap -->
196.         <script src="<?php echo site_url('resources/plugins/jqv
            map/jquery.vmap.min.js'); ?>"></script>
197.         <script src="<?php echo site_url('resources/plugins/jqv
            map/maps/jquery.vmap.usa.js'); ?>"></script>
198.         <!-- jQuery Knob Chart -->
199.         <script src="<?php echo site_url('resources/plugins/jqu
            ery-knob/jquery.knob.min.js'); ?>"></script>
200.         <!-- daterangepicker -->
201.         <script src="<?php echo site_url('resources/plugins/mom
            ent/moment.min.js'); ?>"></script>
202.         <script src="<?php echo site_url('resources/plugins/dat
            erangepicker/daterangepicker.js'); ?>"></script>
203.         <!-- Tempusdominus Bootstrap 4 -->
204.         <script src="<?php echo site_url('resources/plugins/tem
            pusdominus-bootstrap-4/js/tempusdominus-bootstrap-
            4.min.js'); ?>"></script>
205.         <!-- Summernote -->
206.         <script src="<?php echo site_url('resources/plugins/sum
            mernote/summernote-bs4.min.js'); ?>"></script>
207.         <!-- overlayScrollbars -->
208.         <script src="<?php echo site_url('resources/plugins/ove
            rlayScrollbars/js/jquery.overlayScrollbars.min.js'); ?>"></script>

209.         <!-- AdminLTE App -->
210.         <script src="<?php echo site_url('resources/js/adminlte
            .js'); ?>"></script>
211.         <!--
            AdminLTE dashboard demo (This is only for demo purposes) -->
212.         <script src="<?php echo site_url('resources/js/pages/da
            shboard.js'); ?>"></script>
213.         <!-- AdminLTE for demo purposes -->
214.         <script src="<?php echo site_url('resources/js/demo.js'
            ); ?>"></script>
215.         <script src="<?php echo site_url('resources/plugins/dat
            atables/jquery.dataTables.js'); ?>"></script>
216.         <script src="<?php echo site_url('resources/plugins/dat
            atables-bs4/js/dataTables.bootstrap4.js'); ?>"></script>
217.         <script>
218.             $(function() {

```

```

219.         $("#example1").DataTable();
220.         $('#example2').DataTable({
221.             "paging": true,
222.             "lengthChange": false,
223.             "searching": false,
224.             "ordering": true,
225.             "info": true,
226.             "autoWidth": false,
227.         });
228.     });
229. </script>
230. </body>
231.
232. </html>

```

Lampiran dashboard.php (view)

```

1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h1 class="m-0 text-dark">Dashboard</h1>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10. <!-- /.content-header -->
11.
12. <!-- Main content -->
13. <section class="content">
14.     <div class="container-fluid">
15.         <!-- Small boxes (Stat box) -->
16.         <?php if ($this->session-
>userdata('user_level') === 'admin') { ?>
17.             <div class="row">
18.                 <div class="col-lg-4 col-6">
19.                     <!-- small box -->
20.                     <div class="small-box bg-info">
21.                         <div class="inner">
22.                             <h3></h3>
23.
24.                             <p>Data Alternatif</p>
25.                         </div>
26.                         <div class="icon">
27.                             <i class="ion ion-document"></i>
28.                         </div>
29.                         <a href="<? base_url('tbl_alternatif') ?>"
class="small-box-footer">More info <i class="fas fa-arrow-circle-
right"></i></a>
30.                     </div>
31.                 </div>
32.             <!-- ./col -->
33.             <div class="col-lg-4 col-6">

```

```

34.         <!-- small box -->
35.         <div class="small-box bg-success">
36.             <div class="inner">
37.                 <h3></h3>
38.
39.                 <p>Data Bobot</p>
40.             </div>
41.             <div class="icon">
42.                 <i class="ion ion-stats-bars"></i>
43.             </div>
44.             <a href="<?= base_url('tbl_bobot') ?>" class=
s="small-box-footer">More info <i class="fas fa-arrow-circle-
right"></i></a>
45.         </div>
46.     </div>
47.     <!-- ./col -->
48.     <div class="col-lg-4 col-6">
49.         <!-- small box -->
50.         <div class="small-box bg-warning">
51.             <div class="inner">
52.                 <h3></h3>
53.
54.                 <p>Data User</p>
55.             </div>
56.             <div class="icon">
57.                 <i class="ion ion-person-add"></i>
58.             </div>
59.             <a href="<?= base_url('tbl_user'); ?>" class
s="small-box-footer">More info <i class="fas fa-arrow-circle-
right"></i></a>
60.         </div>
61.     </div>
62.     <!-- ./col -->
63. </div>
64. <?php } elseif ($this->session-
>userdata('user_level') === 'user') { ?>
65.     <div class="row">
66.         <div class="col-lg-6 col-6">
67.             <!-- small box -->
68.             <div class="small-box bg-info">
69.                 <div class="inner">
70.                     <h3></h3>
71.
72.                     <p>Data Alternatif</p>
73.                 </div>
74.                 <div class="icon">
75.                     <i class="ion ion-document"></i>
76.                 </div>
77.                 <a href="<?= base_url('tbl_alternatif/index
_user') ?>" class="small-box-footer">More info <i class="fas fa-
arrow-circle-right"></i></a>
78.             </div>
79.         </div>
80.     <!-- ./col -->
81.     <div class="col-lg-6 col-6">

```

```
82.             <!-- small box -->
83.             <div class="small-box bg-success">
84.                 <div class="inner">
85.                     <h3></h3>
86.
87.                     <p>Data Bobot</p>
88.                 </div>
89.                 <div class="icon">
90.                     <i class="ion ion-stats-bars"></i>
91.                 </div>
92.                 <a href="<?= base_url('tbl_bobot') ?>" class="small-box-footer">More info <i class="fas fa-arrow-circle-right"></i></a>
93.                 </div>
94.             </div>
95.             <!-- ./col -->
96.         </div>
97.         <?php } ?>
98.     </div><!-- /.container-fluid -->
99. </section>
```

Lampirlan Source Code Login

Controller (Login.php)

```
1. <?php
2. defined('BASEPATH') or exit('No direct script access allowed');
3.
4. class Login extends CI_Controller
5. {
6.     function __construct()
7.     {
8.         parent::__construct();
9.         $this->load->model('login_model');
10.        $this->load->library('enkripsi');
11.    }
12.
13.    public function index()
14.    {
15.        $this->form_validation-
16.        >set_rules('username', 'username', 'required');
17.        $this->form_validation-
18.        >set_rules('password', 'Password', 'required|min_length[4]');
19.        if ($this->form_validation->run() == FALSE) {
20.            $this->load->view('login');
21.        } else {
22.            $username = $this->input->post('username', TRUE);
23.            $password = $this->enkripsi->encryptIt($this->input-
24.            >post('password', TRUE));
25.            $validasi = $this->login_model-
26.            >validate($username, $password);
27.            if ($validasi->num_rows() > 0) {
28.                $data = $validasi->row();
29.                $id = $data->user_id;
30.                $level = $data->user_level;
31.                $user_name = $data->user_name;
32.                $sesiondata = array(
33.                    'user_id' => $id,
34.                    'user_level' => $level,
35.                    'user_name' => $user_name,
36.                    'logged_in' => TRUE
37.                );
38.                $this->session->set_userdata($sesiondata);
39.
40.                if ($level === 'admin') {
41.                    redirect('dashboard');
42.                } elseif ($level === 'user') {
43.                    redirect('dashboard');
44.                }
45.            } else {
46.                echo $this->session-
47.                >set_flashdata('msg', 'Username or Password is Wrong');
```

```

44.         redirect('');
45.     }
46. }
47. }
48. function logout()
49. {
50.     $this->session->sess_destroy();
51.     redirect('Login');
52. }
53. }

```

Model (Login_model.php)

```

1. <?php
2. class Login_model extends CI_Model
3. {
4.
5.     function validate($email, $password)
6.     {
7.         $this->db->where('user_name', $email);
8.         $this->db->where('user_password', $password);
9.         $result = $this->db->get('tbl_user');
10.        return $result;
11.    }
12. }

```

Library (enkripsi.php)

```

1. <?php
2. class Enkripsi
3. {
4.     public function encryptIt($password)
5.     {
6.         $cryptKey = '1212';
7.         $qEncoded = base64_encode(mcrypt_encrypt(MCRYPT_RIJNDA
EL_256, md5($cryptKey), $password, MCRYPT_MODE_CBC, md5(md5($cryptK
ey))));
8.         return ($qEncoded);
9.     }
10.    public function decryptIt($password)
11.    {
12.        $cryptKey = '1212';
13.        $qDecoded = rtrim(mcrypt_decrypt(MCRYPT_RIJNDAEL_256,
md5($cryptKey), base64_decode($password), MCRYPT_MODE_CBC, md5(md5(
$cryptKey))), "\0");
14.        return ($qDecoded);
15.    }
16. }

```

View (login.php)

[illegible]


```

46.         <div class="card-header">
47.             <h3 class="card-
title">Login Sistem</h3>
48.         </div>
49.         <!-- /.card-header -->
50.         <!-- form start -->
51.         <form role="form" id="quickForm" ac
tion="" method="post">
52.             <div class="card-body">
53.                 <div class="form-group">
54.                     <label for="exampleInpu
tUsername1">username</label>
55.                     <input type="text" name
="username" class="form-
control" id="exampleInputUsername1" placeholder="Enter username">
56.                 </div>
57.                 <div class="form-group">
58.                     <label for="exampleInpu
tPassword1">Password</label>
59.                     <input type="password"
name="password" class="form-
control" id="exampleInputPassword1" placeholder="Password">
60.                 </div>
61.             </div>
62.             <!-- /.card-body -->
63.             <div class="card-footer">
64.                 <button class="btn btn-
primary" value="Login" name=" kirim" type="submit">Sign in
65.                 <i class="nav-
icon fas fa-sign-in-alt"></i>
66.             </button>
67.             </div>
68.         </form>
69.     </div>
70.     <!-- /.card -->
71. </div>
72. <!--/.col (left) -->
73. <!-- right column -->
74. <div class="col-md-6">
75. </div>
76. <!--/.col (right) -->
77. </div>
78. <!-- /.row -->
79. </div><!-- /.container-fluid -->
80. </section>
81. <!-- /.content -->
82. </div>
83. <!-- /.content-wrapper -->
84. </div>
85. <!-- ./wrapper -->
86. <!-- jQuery -->
87. <script src="<?php echo site_url('resources/plugins/jquery/jque
ry.min.js'); ?>"></script>
88. <!-- Bootstrap 4 -->
89. <script src="<?php echo site_url('resources/plugins/bootstrap/j

```

```

s/bootstrap.bundle.min.js'); ?>"></script>
90. <!-- jquery-validation -->
91. <!-- jquery-validation -->
92. <script src="<?php echo site_url('resources/plugins/jquery-
validation/jquery.validate.min.js'); ?>"></script>
93. <script src="<?php echo site_url('resources/plugins/jquery-
validation/additional-methods.min.js'); ?>"></script>
94. <script type="text/javascript">
95.     $(document).ready(function() {
96.         $.validator.defaults({
97.             submitHandler: function() {
98.                 alert("Form successful submitted!");
99.             }
100.        });
101.        $('#quickForm').validate({
102.            rules: {
103.                username: {
104.                    required: true,
105.                    username: true,
106.                },
107.                password: {
108.                    required: true,
109.                    minlength: 5
110.                },
111.            },
112.            messages: {
113.                username: {
114.                    username: "Please enter a username a
ddress",
115.                    email: "Please enter a vaild usernam
e address"
116.                },
117.                password: {
118.                    required: "Please provide a password
",
119.                    minlength: "Your password must be at
least 5 characters long"
120.                },
121.            },
122.            errorElement: 'span',
123.            errorPlacement: function(error, element) {
124.                error.addClass('invalid-feedback');
125.                element.closest('.form-
group').append(error);
126.            },
127.            highlight: function(element, errorClass, val
idClass) {
128.                $(element).addClass('is-invalid');
129.            },
130.            unhighlight: function(element, errorClass, v
alidClass) {
131.                $(element).removeClass('is-invalid');
132.            }
133.        });
134.    });

```

```
135.         </script>
136.     <body>
137. </html>
```

Lampiran Source Code CRUD Tabel Alternatif

Controller (Tbl_alternatif.php)

```
1. <?php
2. class Tbl_alternatif extends CI_Controller
3. {
4.     function __construct()
5.     {
6.         parent::__construct();
7.         $this->load->model('Tbl_alternatif_model');
8.     }
9.
10.    function index()
11.    {
12.        $data['tbl_alternatif'] = $this->Tbl_alternatif_model-
>get_all_tbl_alternatif_admin();
13.        $data['_view'] = 'tbl_alternatif/index';
14.        $this->load->view('layouts/main', $data);
15.    }
16.
17.    function index_user()
18.    {
19.        $session = $this->session->userdata('user_id');
20.        $data['tbl_alternatif'] = $this->Tbl_alternatif_model-
>get_all_tbl_alternatif($session);
21.        $data['_view'] = 'tbl_alternatif/index';
22.        $this->load->view('layouts/main', $data);
23.    }
24.
25.    function add()
26.    {
27.        $this->load->library('form_validation');
28.
29.        $this->form_validation-
>set_rules('alternatif_nama', 'Alternatif Nama', 'required|max_leng
th[30]');
30.        $this->form_validation-
>set_rules('kriteria_1', 'Kriteria 1', 'required|integer');
31.        $this->form_validation-
>set_rules('kriteria_2', 'Kriteria 2', 'required|integer');
32.        $this->form_validation-
>set_rules('kriteria_3', 'Kriteria 3', 'required|integer');
33.        $this->form_validation-
>set_rules('kriteria_4', 'Kriteria 4', 'required|integer');
34.        $this->form_validation-
>set_rules('id_user', 'Id User', 'required|integer');
35.
36.        if ($this->form_validation->run()) {
37.            $params = array(
38.                'alternatif_nama' => $this->input-
>post('alternatif_nama'),
```

```

39.         'kriteria_1' => $this->input->post('kriteria_1'),
40.         'kriteria_2' => $this->input->post('kriteria_2'),
41.         'kriteria_3' => $this->input->post('kriteria_3'),
42.         'kriteria_4' => $this->input->post('kriteria_4'),
43.         'id_user' => $this->input->post('id_user'),
44.     );
45.
46.     $tbl_alternatif_id = $this->Tbl_alternatif_model-
>add_tbl_alternatif($params);
47.     if ($this->session-
>userdata('user_level') === 'admin') {
48.         redirect('tbl_alternatif/index');
49.     } else {
50.         redirect('tbl_alternatif/index_user');
51.     }
52. } else {
53.     $data['_view'] = 'tbl_alternatif/add';
54.     $this->load->view('layouts/main', $data);
55. }
56. }
57.
58. function edit($alternatif_id)
59. {
60.     // check if the tbl_alternatif exists before trying to edit
    it
61.     $data['tbl_alternatif'] = $this->Tbl_alternatif_model-
>get_tbl_alternatif($alternatif_id);
62.
63.     if (isset($data['tbl_alternatif']['alternatif_id'])) {
64.         $this->load->library('form_validation');
65.
66.         $this->form_validation-
>set_rules('alternatif_nama', 'Alternatif Nama', 'required|max_leng
th[30]');
67.         $this->form_validation-
>set_rules('kriteria_1', 'Kriteria 1', 'required|integer');
68.         $this->form_validation-
>set_rules('kriteria_2', 'Kriteria 2', 'required|integer');
69.         $this->form_validation-
>set_rules('kriteria_3', 'Kriteria 3', 'required|integer');
70.         $this->form_validation-
>set_rules('kriteria_4', 'Kriteria 4', 'required|integer');
71.         $this->form_validation-
>set_rules('id_user', 'Tipe Alternatif', 'required|max_length[10]')
;
72.
73.         if ($this->form_validation->run()) {
74.             $params = array(
75.                 'alternatif_nama' => $this->input-
>post('alternatif_nama'),
76.                 'kriteria_1' => $this->input-
>post('kriteria_1'),
77.                 'kriteria_2' => $this->input-
>post('kriteria_2'),
78.                 'kriteria_3' => $this->input-

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    >post('kriteria_3'),
79.         'kriteria_4' => $this->input-
    >post('kriteria_4'),
80.         'id_user' => $this->input->post('id_user'),
81.         );
82.
83.         $this->Tbl_alternatif_model-
    >update_tbl_alternatif($alternatif_id, $params);
84.         if ($this->session-
    >userdata('user_level') === 'admin') {
85.             redirect('tbl_alternatif/index');
86.         } else {
87.             redirect('tbl_alternatif/index_user');
88.         }
89.         // redirect('tbl_alternatif/index');
90.     } else {
91.         $data['_view'] = 'tbl_alternatif/edit';
92.         $this->load->view('layouts/main', $data);
93.     }
94. } else
95.     show_error('The tbl_alternatif you are trying to edit d
oes not exist.');
```

```

96. }
97.
98. function detail($alternatif_id)
99. {
100.     $data['tbl_alternatif'] = $this-
    >Tbl_alternatif_model->get_tbl_alternatif($alternatif_id);
101.     $data['_view'] = 'tbl_alternatif/detail';
102.     $this->load->view('layouts/main', $data);
103. }
104.
105. function remove($alternatif_id)
106. {
107.     $tbl_alternatif = $this->Tbl_alternatif_model-
    >get_tbl_alternatif($alternatif_id);
108.
109.     // check if the tbl_alternatif exists before trying
    to delete it
110.     if (isset($tbl_alternatif['alternatif_id'])) {
111.         $this->Tbl_alternatif_model-
    >delete_tbl_alternatif($alternatif_id);
112.         redirect('tbl_alternatif/index');
113.     } else
114.         show_error('The tbl_alternatif you are trying to
delete does not exist.');
```

```

115.     }
116. }
```

Model (tbl_alternatif_model.php)

```
1. <?php
2. class Tbl_alternatif_model extends CI_Model
3. {
4.     function __construct()
5.     {
6.         parent::__construct();
7.     }
8.
9.     function get_tbl_alternatif($alternatif_id)
10.    {
11.        $this->db->select('*');
12.        $query = $this->db->
>get_where('tbl_alternatif', array('alternatif_id' => $alternatif_id));
13.        return $query->row_array();
14.    }
15.
16.    function get_all_tbl_alternatif_admin()
17.    {
18.        $query = $this->db->get('tbl_alternatif');
19.        return $query->result_array();
20.    }
21.
22.    function get_all_tbl_alternatif($where)
23.    {
24.        $this->db->select('*');
25.        $query = $this->db->
>get_where('tbl_alternatif', array('id_user' => $where));
26.        return $query->result_array();
27.    }
28.
29.    function add_tbl_alternatif($params)
30.    {
31.        $this->db->insert('tbl_alternatif', $params);
32.        return $this->db->insert_id();
33.    }
34.
35.    function update_tbl_alternatif($alternatif_id, $params)
36.    {
37.        $this->db->where('alternatif_id', $alternatif_id);
38.        return $this->db->update('tbl_alternatif', $params);
39.    }
40.
41.    function delete_tbl_alternatif($alternatif_id)
42.    {
43.        return $this->db->
>delete('tbl_alternatif', array('alternatif_id' => $alternatif_id))
44.        ;
45.    }
```

View (index.php)

```
1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h1 class="m-0 text-dark">Alternatif</h1>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card">
14.             <div class="card-header">
15.                 <h3 class="card-
16. title">Data Alternatif<small>( berupa handphone )</small></h3>
17.                 <div class="float-right">
18.                     <a href="<?php echo site_url('tbl_alternatif/ad
19. d'); ?>" class="btn btn-success btn-sm">Tambah Data</a>
20.                 </div>
21.             </div>
22.             <!-- /.card-header -->
23.             <div class="card-body">
24.                 <table id="example2" class="table table-
25. bordered table-striped">
26.                     <thead>
27.                         <tr>
28.                             <th>Alternatif Nama</th>
29.                             <th>Harga</th>
30.                             <th>kamera belakang</th>
31.                             <th>Kamera depan</th>
32.                             <th>memory</th>
33.                             <th>Actions</th>
34.                         </tr>
35.                     </thead>
36.                     <tbody>
37.                         <?php foreach ($tbl_alternatif as $t) { ?>
38.                             <tr>
39.                                 <td><?php echo $t['alternatif_nama'
40. ]; ?></td>
41.                                 <td><?php echo $t['kriteria_1']; ?>
42.                                 <td><?php echo $t['kriteria_2']; ?>
43.                                 <td><?php echo $t['kriteria_3']; ?>
44.                                 <td><?php echo $t['kriteria_4']; ?>
45.                                 <td>
46.                                     <a href="<?php echo site_url('t
47. bl_alternatif/detail/' . $t['alternatif_id']); ?>" class="btn btn-
```



```

info btn-xs"><span class="fas fa-info"> </span> Detail Data</a>
43.         <a href="php echo site_url('tbl_alternatif/edit/' . $t['alternatif_id']); ?" class="btn btn-
warning btn-xs"><span class="fas fa-pencil-alt"> </span> Edit</a>
44.         <a href="php echo site_url('tbl_alternatif/remove/' . $t['alternatif_id']); ?" class="btn btn-
danger btn-xs"><span class="fas fa-trash"> </span> Delete</a>
45.     </td>
46. </tr>
47. <?php } ?>
48. </tbody>
49. <tfoot>
50. <tr>
51.     <th>Alternatif Nama</th>
52.     <th>Harga</th>
53.     <th>kamera belakang</th>
54.     <th>Kamera depan</th>
55.     <th>memory</th>
56.     <th>Actions</th>
57. </tr>
58. </tfoot>
59. </table>
60. </div>
61. <!-- /.card-body -->
62. </div>
63. </div><!-- /.container-fluid -->
64. </section>

```

View (add.php)

```

1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h3 class="m-0 text-
dark">Form tambah Data Alternatif</h3>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card card-primary">
14.             <div class="card-header">
15.                 <h3 class="card-
title">Menambah Data Alternatif</h3>
16.             </div>
17.             <!-- /.card-header -->
18.             <!-- form start -->
19.             <?php echo form_open('tbl_alternatif/add'); ?>
20.             <div class="card-body">
21.                 <label for="alternatif_nama" class="control-

```

```

    label"><span class="text-danger">*</span>Nama Alternatif</label>
22.         <div class="form-group">
23.             <input type="text" name="alternatif_nama" value
= "<?php echo $this->input-
>post('alternatif_nama'); ?>" class="form-
control" id="alternatif_nama" />
24.             <span class="text-
danger"><?php echo form_error('alternatif_nama'); ?></span>
25.         </div>
26.         <label for="kriteria_1" class="control-
label"><span class="text-danger">*</span>Harga</label>
27.         <div class="form-group">
28.             <input type="text" name="kriteria_1" value="<?p
hp echo $this->input->post('kriteria_1'); ?>" class="form-
control" id="kriteria_1" />
29.             <span class="text-
danger"><?php echo form_error('kriteria_1'); ?></span>
30.         </div>
31.         <label for="kriteria_2" class="control-
label"><span class="text-danger">*</span>Kamera belakang</label>
32.         <div class="form-group">
33.             <input type="text" name="kriteria_2" value="<?p
hp echo $this->input->post('kriteria_2'); ?>" class="form-
control" id="kriteria_2" />
34.             <span class="text-
danger"><?php echo form_error('kriteria_2'); ?></span>
35.         </div>
36.         <label for="kriteria_3" class="control-
label"><span class="text-danger">*</span>Kamera depan</label>
37.         <div class="form-group">
38.             <input type="text" name="kriteria_3" value="<?p
hp echo $this->input->post('kriteria_3'); ?>" class="form-
control" id="kriteria_3" />
39.             <span class="text-
danger"><?php echo form_error('kriteria_3'); ?></span>
40.         </div>
41.         <label for="kriteria_4" class="control-
label"><span class="text-danger">*</span>Memori</label>
42.         <div class="form-group">
43.             <input type="text" name="kriteria_4" value="<?p
hp echo $this->input->post('kriteria_4'); ?>" class="form-
control" id="kriteria_4" />
44.             <span class="text-
danger"><?php echo form_error('kriteria_4'); ?></span>
45.         </div>
46.         <label for="id_user" class="control-
label"><span class="text-danger">*</span>Id User</label>
47.         <?php if ($this->session-
>userdata('user_level') === 'admin') {    ?>
48.             <div class="form-group">
49.                 <input type="text" name="id_user" value="<?
php echo $this->session->userdata('user_id') ?>" class="form-
control" id="id_user" />
50.                 <span class="text-
danger"><?php echo form_error('id_user'); ?></span>

```

```

51.         </div>
52.         <?php } else { ?>
53.         <div class="form-group">
54.             <input type="text" name="id_user" value="<?
php echo $this->session->userdata('user_id') ?>" class="form-
control" id="id_user" readonly />
55.             <span class="text-
danger"><?php echo form_error('id_user'); ?></span>
56.         </div>
57.         <?php } ?>
58.     </div>
59.
60.     <div class="card-footer">
61.         <button type="submit" class="btn btn-
primary">Simpan Data</button>
62.     </div>
63.     <?php echo form_close(); ?>
64. </div>
65. </div><!-- /.container-fluid -->
66. </section>

```

View (edit.php)

```

1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h3 class="m-0 text-
dark">Form Edit Data Alternatif</h3>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card card-primary">
14.             <div class="card-header">
15.                 <h3 class="card-
title">Mengedit Data Alternatif</h3>
16.             </div>
17.             <!-- /.card-header -->
18.             <!-- form start -->
19.             <?php echo form_open('tbl_alternatif/edit/' . $tbl_alte
rnatif['alternatif_id']); ?>
20.             <div class="card-body">
21.                 <label for="alternatif_nama" class="control-
label"><span class="text-danger">*</span>Nama Alternatif</label>
22.                 <div class="form-group">
23.                     <input type="text" name="alternatif_nama" value
="<?php echo ($this->input->post('alternatif_nama')) ? $this->input-
>post('alternatif_nama') : $tbl_alternatif['alternatif_nama']; ?>"
class="form-control" id="alternatif_nama" />

```

```

24.         <span class="text-
danger"><?php echo form_error('alternatif_nama'); ?></span>
25.         </div>
26.         <label for="kriteria_1" class="control-
label"><span class="text-danger">*</span>Harga</label>
27.         <div class="form-group">
28.             <input type="text" name="kriteria_1" value="<?p
hp echo ($this->input->post('kriteria_1') ? $this->input-
>post('kriteria_1') : $tbl_alternatif['kriteria_1']); ?>" class="fo
rm-control" id="kriteria_1" />
29.         <span class="text-
danger"><?php echo form_error('kriteria_1'); ?></span>
30.         </div>
31.         <label for="kriteria_2" class="control-
label"><span class="text-danger">*</span>Kamera Depan</label>
32.         <div class="form-group">
33.             <input type="text" name="kriteria_2" value="<?p
hp echo ($this->input->post('kriteria_2') ? $this->input-
>post('kriteria_2') : $tbl_alternatif['kriteria_2']); ?>" class="fo
rm-control" id="kriteria_2" />
34.         <span class="text-
danger"><?php echo form_error('kriteria_2'); ?></span>
35.         </div>
36.         <label for="kriteria_3" class="control-
label"><span class="text-danger">*</span>Kamera Belakang</label>
37.         <div class="form-group">
38.             <input type="text" name="kriteria_3" value="<?p
hp echo ($this->input->post('kriteria_3') ? $this->input-
>post('kriteria_3') : $tbl_alternatif['kriteria_3']); ?>" class="fo
rm-control" id="kriteria_3" />
39.         <span class="text-
danger"><?php echo form_error('kriteria_3'); ?></span>
40.         </div>
41.         <label for="kriteria_4" class="control-
label"><span class="text-danger">*</span>Memori</label>
42.         <div class="form-group">
43.             <input type="text" name="kriteria_4" value="<?p
hp echo ($this->input->post('kriteria_4') ? $this->input-
>post('kriteria_4') : $tbl_alternatif['kriteria_4']); ?>" class="fo
rm-control" id="kriteria_4" />
44.         <span class="text-
danger"><?php echo form_error('kriteria_4'); ?></span>
45.         </div>
46.         <label for="id_user" class="control-
label"><span class="text-danger">*</span>Id User</label>
47.         <?php if ($this->session-
>userdata('user_level') === 'admin') { ?>
48.             <div class="form-group">
49.                 <input type="text" name="id_user" value="<?
php echo ($this->input->post('id_user') ? $this->input-
>post('id_user') : $tbl_alternatif['id_user']); ?>" class="form-
control" id="id_user" />
50.                 <span class="text-
danger"><?php echo form_error('id_user'); ?></span>
51.             </div>

```

```

52.         <?php } else { ?>
53.             <div class="form-group">
54.                 <input type="text" name="id_user" value="<?
php echo ($this->input->post('id_user') ? $this->input-
>post('id_user') : $tbl_alternatif['id_user']); ?>" class="form-
control" id="id_user" readonly />
55.                 <span class="text-
danger"><?php echo form_error('id_user'); ?></span>
56.             </div>
57.         <?php } ?>
58.     </div>
59.     <div class="card-footer">
60.         <button type="submit" class="btn btn-
primary">Submit</button>
61.     </div>
62.     <?php echo form_close(); ?>
63. </div>
64. </div><!-- /.container-fluid -->
65. </section>

```

View (detail.php)

```

1. <div id="container-fluid">
2.     <h1>Detail Data Alternatif</h1>
3.     <div class="container-fluid">
4.         <div class="row">
5.             <div class="col-md-12">
6.                 <div class="card">
7.                     <!-- /.card-header -->
8.                     <div class="card-body">
9.                         <table class="table table-bordered">
10.                            <thead>
11.                                <tr>
12.                                    <th style="width: 10px">#</th>
13.                                    <th>Nama Kriteria</th>
14.                                    <th>Nilai masing-
masing kriteria</th>
15.                                </tr>
16.                            </thead>
17.                            <?php echo form_open('tbl_bobot/add'); ?>
18.                            <tbody>
19.                                <tr>
20.                                    <td>1.</td>
21.                                    <td>id alternatif</td>
22.                                    <td><?= $tbl_alternatif['altern
atif_id']; ?>
23.                                </td>
24.                            </tr>
25.                            <tr>
26.                                <td>2.</td>
27.                                <td>Nama Alternatif</td>
28.                                <td><?= $tbl_alternatif['altern
atif_nama']; ?>

```

```

29.                                     </td>
30.                                 </tr>
31.                                 <tr>
32.                                     <td>3.</td>
33.                                     <td>Harga</td>
34.                                     <td><?= $tbl_alternatif['kriter
ia_1']; ?>
35.                                     </td>
36.                                 </tr>
37.                                 <tr>
38.                                     <td>4.</td>
39.                                     <td>Kamera Belakang</td>
40.                                     <td><?= $tbl_alternatif['kriter
ia_2']; ?>
41.                                     </td>
42.                                 </tr>
43.                                 <tr>
44.                                     <td>5.</td>
45.                                     <td>Kamera depan</td>
46.                                     <td><?= $tbl_alternatif['kriter
ia_3']; ?></td>
47.                                 </tr>
48.                                 <tr>
49.                                     <td>6.</td>
50.                                     <td>Memori</td>
51.                                     <td><?= $tbl_alternatif['kriter
ia_4']; ?></td>
52.                                 </tr>
53.                                 <tr>
54.                                     <td>7.</td>
55.                                     <td>id user</td>
56.                                     <td><?= $tbl_alternatif['id_use
r']; ?></td>
57.                                 </tr>
58.                                 <tr>
59.                                     <td>8.</td>
60.                                     <th>Aksi</th>
61.                                     <td>
62.                                         <a href="<?php echo site_ur
l('tbl_alternatif/'); ?>" class="btn btn-
secondary"><span class="fa fa-pencil"></span> Kembali</a>
63.                                         <a href="<?php echo site_ur
l('tbl_alternatif/edit/' . $tbl_alternatif['alternatif_id']); ?>" c
lass="btn btn-warning"><span class="fas fa-pencil-
alt"></span> Edit Data</a></td>
64.                                     </tr>
65.                                 </tbody>
66.                                 <?php echo form_close(); ?>
67.                             </table>
68.                         </div>
69.                     </div>
70.                 </div>
71.             </div>
72.         </div>

```

```
73. </div>
```

Lampiran Source Code CRUD Tabel User

Controller (Tbl_user.php)

```
1. <?php
2. class Tbl_user extends CI_Controller
3. {
4.     function __construct()
5.     {
6.         parent::__construct();
7.         $this->load->model('Tbl_user_model');
8.         $this->load->library('enkripsi');
9.     }
10.
11.     function index()
12.     {
13.         $data['tbl_user'] = $this->Tbl_user_model-
>get_all_tbl_user();
14.
15.         $data['_view'] = 'tbl_user/index';
16.         $this->load->view('layouts/main', $data);
17.     }
18.
19.     function add()
20.     {
21.         $this->load->library('form_validation');
22.
23.         $this->form_validation-
>set_rules('user_password', 'User Password', 'required|max_length[60]');
24.         $this->form_validation-
>set_rules('user_name', 'User Name', 'required|max_length[30]');
25.         $this->form_validation-
>set_rules('user_email', 'User Email', 'required|max_length[60]|valid_email');
26.         $this->form_validation-
>set_rules('user_level', 'User Level', 'required|max_length[5]');
27.         $this->form_validation-
>set_rules('status', 'Status', 'required|integer');
28.
29.         if ($this->form_validation->run()) {
30.             $params = array(
31.                 'user_password' => $this->enkripsi-
>encryptIt($this->input->post('user_password')),
32.                 'user_name' => $this->input->post('user_name'),
33.                 'user_email' => $this->input->post('user_email'),
34.                 'user_level' => $this->input->post('user_level'),
35.                 'status' => $this->input->post('status'),
36.             );
```

```

37.
38.         $tbl_user_id = $this->Tbl_user_model-
>add_tbl_user($params);
39.         redirect('tbl_user/index');
40.     } else {
41.         $data['_view'] = 'tbl_user/add';
42.         $this->load->view('layouts/main', $data);
43.     }
44. }
45.
46.     function edit($user_id)
47.     {
48.         $data['tbl_user'] = $this->Tbl_user_model-
>get_tbl_user($user_id);
49.
50.         if (isset($data['tbl_user']['user_id'])) {
51.             $this->load->library('form_validation');
52.
53.             $this->form_validation-
>set_rules('user_password', 'User Password', 'required|max_length[6
0]');
54.             $this->form_validation-
>set_rules('user_name', 'User Name', 'required|max_length[30]');
55.             $this->form_validation-
>set_rules('user_email', 'User Email', 'required|max_length[60]|val
id_email');
56.             $this->form_validation-
>set_rules('user_level', 'User Level', 'required|max_length[5]');
57.             $this->form_validation-
>set_rules('status', 'Status', 'required|integer');
58.
59.             if ($this->form_validation->run()) {
60.                 $params = array(
61.                     'user_password' => $this->enkripsi-
>encryptIt($this->input->post('user_password')),
62.                     'user_name' => $this->input-
>post('user_name'),
63.                     'user_email' => $this->input-
>post('user_email'),
64.                     'user_level' => $this->input-
>post('user_level'),
65.                     'status' => $this->input->post('status'),
66.                 );
67.
68.                 $this->Tbl_user_model-
>update_tbl_user($user_id, $params);
69.                 redirect('tbl_user/index');
70.             } else {
71.                 $data['_view'] = 'tbl_user/edit';
72.                 $this->load->view('layouts/main', $data);
73.             }
74.         } else
75.             show_error('The tbl_user you are trying to edit does no
t exist.');
```



```

77.
78.     function detail($user_id)
79.     {
80.         $data['tbl_user'] = $this->Tbl_user_model-
>get_tbl_user($user_id);
81.         $data['_view'] = 'tbl_user/detail';
82.         $this->load->view('layouts/main', $data);
83.     }
84.
85.     function remove($user_id)
86.     {
87.         $tbl_user = $this->Tbl_user_model-
>get_tbl_user($user_id);
88.
89.         if (isset($tbl_user['user_id'])) {
90.             $this->Tbl_user_model->delete_tbl_user($user_id);
91.             redirect('tbl_user/index');
92.         } else
93.             show_error('The tbl_user you are trying to delete does
not exist.');
```

Model (Tbl_user_model.php)

```

1. <?php
2. class Tbl_user_model extends CI_Model
3. {
4.     function __construct()
5.     {
6.         parent::__construct();
7.     }
8.
9.     function get_tbl_user($user_id)
10.    {
11.        $tbl_user = $this->db->query("
12.            SELECT
13.                *
14.
15.            FROM
16.                `tbl_user`
17.
18.            WHERE
19.                `user_id` = ?
20.            ", array($user_id)->row_array());
21.
22.        return $tbl_user;
23.    }
24.    function get_all_tbl_user()
25.    {
26.        $tbl_user = $this->db->query("
27.            SELECT
28.                *
```

```

29.
30.         FROM
31.             `tbl_user`
32.
33.         WHERE
34.             1 = 1
35.
36.         ORDER BY `user_id` DESC
37.     ")->result_array();
38.
39.     return $tbl_user;
40. }
41. function add_tbl_user($params)
42. {
43.     $this->db->insert('tbl_user', $params);
44.     return $this->db->insert_id();
45. }
46. function update_tbl_user($user_id, $params)
47. {
48.     $this->db->where('user_id', $user_id);
49.     return $this->db->update('tbl_user', $params);
50. }
51. function delete_tbl_user($user_id)
52. {
53.     return $this->db->delete('tbl_user', array('user_id' => $user_id));
54. }
55. }

```

View (Index.php)

```

1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h1 class="m-0 text-dark">User</h1>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card">
14.             <div class="card-header">
15.                 <h3 class="card-title">Data User</h3>
16.                 <div class="float-right">
17.                     <a href="<?php echo site_url('tbl_user/add'); ?
18.                 >" class="btn btn-success btn-sm">Tambah Data</a>
19.             </div>
20.         </div>
21.     <!-- /.card-header -->
22.     <div class="card-body">

```

```

22.         <table id="example2" class="table table-
bordered table-striped">
23.             <thead>
24.                 <tr>
25.                     <th>User Name</th>
26.                     <th>User Email</th>
27.                     <th>User Level</th>
28.                     <th>Actions</th>
29.                 </tr>
30.             </thead>
31.             <tbody>
32.                 <?php foreach ($tbl_user as $t) { ?>
33.                     <tr>
34.                         <td><?php echo $t['user_name']; ?><
/td>
35.                         <td><?php echo $t['user_email']; ?>
</td>
36.                         <td><?php echo $t['user_level']; ?>
</td>
37.                         <td>
38.                             <a href="<?php echo site_url('t
bl_user/detail/' . $t['user_id']); ?>" class="btn btn-info btn-
xs"><span class="fas fa-info"> </span> Detail Data</a>
39.                             <a href="<?php echo site_url('t
bl_user/edit/' . $t['user_id']); ?>" class="btn btn-warning btn-
xs"><span class="fas fa-pencil-alt"></span> Edit</a>
40.                             <a href="<?php echo site_url('t
bl_user/remove/' . $t['user_id']); ?>" class="btn btn-danger btn-
xs"><span class="fa fa-trash"></span> Delete</a>
41.                         </td>
42.                     </tr>
43.                 <?php } ?>
44.             </tbody>
45.             <tfoot>
46.                 <tr>
47.                     <th>User Name</th>
48.                     <th>User Email</th>
49.                     <th>User Level</th>
50.                     <th>Actions</th>
51.                 </tr>
52.             </tfoot>
53.         </table>
54.     </div>
55.     <!-- /.card-body -->
56. </div>
57. </div><!-- /.container-fluid -->
58. </section>

```

View (add.php)

```
1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h1 class="m-0 text-
dark">Form Tambah Data User</h1>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card card-primary">
14.             <div class="card-header">
15.                 <h3 class="card-title">Menambah Data User</h3>
16.             </div>
17.             <!-- /.card-header -->
18.             <!-- form start -->
19.             <?php echo form_open('tbl_user/add'); ?>
20.             <div class="card-body">
21.                 <label for="user_password" class="control-
label"><span class="text-danger">*</span>User Password</label>
22.                 <div class="form-group">
23.                     <input type="password" name="user_password" val
ue="<?php echo $this->input-
>post('user_password'); ?>" class="form-
control" id="user_password" />
24.                     <span class="text-
danger"><?php echo form_error('user_password'); ?></span>
25.                 </div>
26.                 <label for="user_name" class="control-
label"><span class="text-danger">*</span>User Name</label>
27.                 <div class="form-group">
28.                     <input type="text" name="user_name" value="<?ph
p echo $this->input->post('user_name'); ?>" class="form-
control" id="user_name" />
29.                     <span class="text-
danger"><?php echo form_error('user_name'); ?></span>
30.                 </div>
31.                 <label for="user_email" class="control-
label"><span class="text-danger">*</span>User Email</label>
32.                 <div class="form-group">
33.                     <input type="text" name="user_email" value="<p
hp echo $this->input->post('user_email'); ?>" class="form-
control" id="user_email" />
34.                     <span class="text-
danger"><?php echo form_error('user_email'); ?></span>
35.                 </div>
36.                 <label for="user_level" class="control-
label"><span class="text-danger">*</span>User Level</label>
37.                 <div class="form-group">
```

```

38.         <select class="form-control select2 select2-
hidden-accessible" style="width: 100%;" name="user_level" data-
select2-id="1" tabindex="-1" aria-hidden="true" id="user_level">
39.             <option selected="selected" data-select2-
id="admin" value="admin">Admin</option>
40.             <option data-select2-
id="30" value="user">User</option>
41.         </select>
42.     </div>
43.     <label for="status" class="control-
label"><span class="text-danger">*</span>Status</label>
44.     <div class="form-group">
45.         <select class="form-control select2 select2-
hidden-accessible" style="width: 100%;" name="status" data-select2-
id="1" tabindex="-1" aria-hidden="true" id="user_level">
46.             <option selected="selected" data-select2-
id="3" value="1">Aktif</option>
47.             <option data-select2-
id="30" value="0">tidak aktif</option>
48.         </select>
49.     </div>
50. </div>
51. <div class="card-footer">
52.     <button type="submit" class="btn btn-
primary">Simpan Data</button>
53. </div>
54. <?php echo form_close(); ?>
55. </div>
56. </div><!-- /.container-fluid -->
57. </section>

```

View (edit.php)

```

1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h3 class="m-0 text-
dark">Form Edit Data User</h3>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card card-primary">
14.             <div class="card-header">
15.                 <h3 class="card-title">Mengedit Data User</h3>

```

```

16.         </div>
17.         <!-- /.card-header -->
18.         <!-- form start -->
19.         <?php echo form_open('tbl_user/edit/' . $tbl_user['user
    _id']); ?>
20.         <div class="card-body">
21.             <label for="user_password" class="control-
    label"><span class="text-danger">*</span>User Password</label>
22.             <div class="form-group">
23.                 <input type="text" name="user_password" value="
    <?php echo ($this->input->post('user_password') ? $this->input-
    >post('user_password') : $this->enkripsi-
    >decryptIt($tbl_user['user_password'])); ?>" class="form-
    control" id="user_password" />
24.                 <span class="text-
    danger"><?php echo form_error('user_password'); ?></span>
25.             </div>
26.             <label for="user_name" class="control-
    label"><span class="text-danger">*</span>User Name</label>
27.             <div class="form-group">
28.                 <input type="text" name="user_name" value="<?ph
    p echo ($this->input->post('user_name') ? $this->input-
    >post('user_name') : $tbl_user['user_name']); ?>" class="form-
    control" id="user_name" />
29.                 <span class="text-
    danger"><?php echo form_error('user_name'); ?></span>
30.             </div>
31.             <label for="user_email" class="control-
    label"><span class="text-danger">*</span>User Email</label>
32.             <div class="form-group">
33.                 <input type="text" name="user_email" value="<?p
    hp echo ($this->input->post('user_email') ? $this->input-
    >post('user_email') : $tbl_user['user_email']); ?>" class="form-
    control" id="user_email" />
34.                 <span class="text-
    danger"><?php echo form_error('user_email'); ?></span>
35.             </div>
36.             <label for="user_level" class="control-
    label"><span class="text-danger">*</span>User Level</label>
37.             <div class="form-group">
38.                 <select class="form-control select2 select2-
    hidden-accessible" style="width: 100%;" name="user_level" data-
    select2-id="1" tabindex="-1" aria-hidden="true" id="user_level">
39.                     <option selected="selected" data-select2-
    id="admin" value="admin">Admin</option>
40.                     <option data-select2-
    id="30" value="user">User</option>
41.                 </select>
42.             </div>
43.             <label for="status" class="control-
    label"><span class="text-danger">*</span>Status</label>
44.             <div class="form-group">
45.                 <select class="form-control select2 select2-
    hidden-accessible" style="width: 100%;" name="status" data-select2-
    id="1" tabindex="-1" aria-hidden="true" id="user_level">

```



```

33.                 <td>User Email</td>
34.                 <td><?= $tbl_user['user_email']
; ?>
35.                 </td>
36.             </tr>
37.             <tr>
38.                 <td>4.</td>
39.                 <td>User Password</td>
40.                 <td>
41.                     <?php echo $this->enkripsi-
>decryptIt($tbl_user['user_password']); ?>
42.                 </td>
43.             </tr>
44.             <tr>
45.                 <td>5.</td>
46.                 <td>Level User</td>
47.                 <td><?= $tbl_user['user_level']
; ?></td>
48.             </tr>
49.             <tr>
50.                 <td>6.</td>
51.                 <td>Status</td>
52.                 <td>
53.                     <?php if ($tbl_user['status
'] === '1') {
54.                         echo 'aktif';
55.                     } else {
56.                         echo 'tidak aktif';
57.                     }
58.                     ?>
59.                 </td>
60.             </tr>
61.             <tr>
62.                 <td>7.</td>
63.                 <th>Aksi</th>
64.                 <td>
65.                     <a href="<?php echo site_ur
l('tbl_user/'); ?>" class="btn btn-secondary"><span class="fa fa-
pencil"></span> Kembali</a>
66.                     <a href="<?php echo site_ur
l('tbl_user/edit/' . $tbl_user['user_id']); ?>" class="btn btn-
warning"><span class="fas fa-pencil-
alt"></span> Edit Data</a></td>
67.                 </tr>
68.             </tbody>
69.             <?php echo form_close(); ?>
70.         </table>
71.     </div>
72. </div>
73. </div>
74. </div>
75. </div>
76. </div>

```


Lampiran Source Code CRUD Tabel Bobot

Controller (Tbl_bobot.php)

```
1. <?php
2. class Tbl_bobot extends CI_Controller
3. {
4.     function __construct()
5.     {
6.         parent::__construct();
7.         $this->load->model('Tbl_bobot_model');
8.     }
9.     function index()
10.    {
11.        $data['tbl_bobot'] = $this->Tbl_bobot_model-
>get_all_tbl_bobot();
12.
13.        $data['_view'] = 'tbl_bobot/index';
14.        $this->load->view('layouts/main', $data);
15.    }
16.    function add()
17.    {
18.        $this->load->library('form_validation');
19.
20.        $this->form_validation-
>set_rules('bobot_kriteria1', 'Bobot Kriteria1', 'required');
21.        $this->form_validation-
>set_rules('bobot_kriteria2', 'Bobot Kriteria2', 'required');
22.        $this->form_validation-
>set_rules('bobot_kriteria3', 'Bobot Kriteria3', 'required');
23.        $this->form_validation-
>set_rules('bobot_kriteria4', 'Bobot Kriteria4', 'required');
24.        $this->form_validation-
>set_rules('id_user', 'Id User', 'required');
25.
26.        if ($this->form_validation->run()) {
27.            $params = array(
28.                'bobot_kriteria1' => $this->input-
>post('bobot_kriteria1'),
29.                'bobot_kriteria2' => $this->input-
>post('bobot_kriteria2'),
30.                'bobot_kriteria3' => $this->input-
>post('bobot_kriteria3'),
31.                'bobot_kriteria4' => $this->input-
>post('bobot_kriteria4'),
32.                'id_user' => $this->input->post('id_user'),
33.            );
34.
35.            $tbl_bobot_id = $this->Tbl_bobot_model-
>add_tbl_bobot($params);
36.            redirect('tbl_bobot/index');
37.        } else {
38.            $data['_view'] = 'tbl_bobot/add';
```

```

39.         $this->load->view('layouts/main', $data);
40.     }
41. }
42.
43. function edit($id_bobot)
44. {
45.     // check if the tbl_bobot exists before trying to edit it
46.     $data['tbl_bobot'] = $this->Tbl_bobot_model-
>get_tbl_bobot($id_bobot);
47.
48.     if (isset($data['tbl_bobot']['id_bobot'])) {
49.         $this->load->library('form_validation');
50.
51.         $this->form_validation-
>set_rules('bobot_kriteria1', 'Bobot Kriteria1', 'required');
52.         $this->form_validation-
>set_rules('bobot_kriteria2', 'Bobot Kriteria2', 'required');
53.         $this->form_validation-
>set_rules('bobot_kriteria3', 'Bobot Kriteria3', 'required');
54.         $this->form_validation-
>set_rules('bobot_kriteria4', 'Bobot Kriteria4', 'required');
55.         $this->form_validation-
>set_rules('id_user', 'Id User', 'required');
56.
57.         if ($this->form_validation->run()) {
58.             $params = array(
59.                 'bobot_kriteria1' => $this->input-
>post('bobot_kriteria1'),
60.                 'bobot_kriteria2' => $this->input-
>post('bobot_kriteria2'),
61.                 'bobot_kriteria3' => $this->input-
>post('bobot_kriteria3'),
62.                 'bobot_kriteria4' => $this->input-
>post('bobot_kriteria4'),
63.                 'id_user' => $this->input->post('id_user'),
64.             );
65.
66.             $this->Tbl_bobot_model-
>update_tbl_bobot($id_bobot, $params);
67.             redirect('tbl_bobot/index');
68.         } else {
69.             $data['_view'] = 'tbl_bobot/edit';
70.             $this->load->view('layouts/main', $data);
71.         }
72.     } else
73.         show_error('The tbl_bobot you are trying to edit does n
ot exist.');
```

```

74. }
75. function remove($id_bobot)
76. {
77.     $tbl_bobot = $this->Tbl_bobot_model-
>get_tbl_bobot($id_bobot);
78.
79.     // check if the tbl_bobot exists before trying to delete it

```

```

80.         if (isset($tbl_bobot['id_bobot'])) {
81.             $this->Tbl_bobot_model->delete_tbl_bobot($id_bobot);
82.             redirect('tbl_bobot/index');
83.         } else
84.             show_error('The tbl_bobot you are trying to delete does
not exist.');
```

Model (Tbl_bobot_model.php)

```

1. <?php
2. class Tbl_bobot_model extends CI_Model
3. {
4.     function __construct()
5.     {
6.         parent::__construct();
7.     }
8.
9.     function get_tbl_bobot($id_bobot)
10.    {
11.        return $this->db-
>get_where('tbl_bobot',array('id_bobot'=>$id_bobot))-
>row_array();
12.    }
13.
14.    function get_all_tbl_bobot()
15.    {
16.        $this->db->order_by('id_bobot', 'desc');
17.        return $this->db->get('tbl_bobot')->result_array();
18.    }
19.
20.    function add_tbl_bobot($params)
21.    {
22.        $this->db->insert('tbl_bobot',$params);
23.        return $this->db->insert_id();
24.    }
25.
26.    function update_tbl_bobot($id_bobot,$params)
27.    {
28.        $this->db->where('id_bobot',$id_bobot);
29.        return $this->db->update('tbl_bobot',$params);
30.    }
31.
32.    function delete_tbl_bobot($id_bobot)
33.    {
34.        return $this->db-
>delete('tbl_bobot',array('id_bobot'=>$id_bobot));
35.    }
36. }
```

View (Index.php)

```
1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h1 class="m-0 text-dark">Bobot</h1>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card">
14.             <div class="card-header">
15.                 <h3 class="card-
title">Data Bobot Menggunakan Entropy</h3>
16.                 <div class="float-right">
17.                     <?php if ($this->session-
>userdata('user_level') === 'admin') { ?>
18.                         <a href="<?php echo site_url('tbl_bobot/add
'); ?>" class="btn btn-success btn-sm">Add</a>
19.                     <?php } ?>
20.                 </div>
21.             </div>
22.             <!-- /.card-header -->
23.             <div class="card-body">
24.                 <table id="example2" class="table table-
bordered table-striped">
25.                     <thead>
26.                         <tr>
27.                             <th>Id Bobot</th>
28.                             <th>Bobot Harga</th>
29.                             <th>Bobot Kamera belakang</th>
30.                             <th>Bobot Kamera depan</th>
31.                             <th>Bobot Memori</th>
32.                             <th>Id User</th>
33.                             <th>Actions</th>
34.                         </tr>
35.                     </thead>
36.                     <tbody>
37.                         <?php foreach ($tbl_bobot as $t) { ?>
38.                             <tr>
39.                                 <td><?php echo $t['id_bobot']; ?></
td>
40.                                 <td><?php echo $t['bobot_kriteria1
']; ?></td>
41.                                 <td><?php echo $t['bobot_kriteria2
']; ?></td>
42.                                 <td><?php echo $t['bobot_kriteria3
']; ?></td>
43.                                 <td><?php echo $t['bobot_kriteria4
']; ?></td>
```

```

44.         <td><?php echo $t['id_user']; ?></td>
45.         <td>
46.             <a href="<?php echo site_url('tbl_bobot/edit/' . $t['id_bobot']); ?>" class="btn btn-info btn-xs"><span class="fa fa-pencil"></span> Edit</a>
47.             <a href="<?php echo site_url('tbl_bobot/remove/' . $t['id_bobot']); ?>" class="btn btn-danger btn-xs"><span class="fa fa-trash"></span> Delete</a>
48.         </td>
49.     </tr>
50. <?php } ?>
51. </tbody>
52. <tfoot>
53.     <tr>
54.         <th>Id Bobot</th>
55.         <th>Bobot Harga</th>
56.         <th>Bobot Kamera belakang</th>
57.         <th>Bobot Kamera depan</th>
58.         <th>Bobot Memori</th>
59.         <th>Id User</th>
60.         <th>Actions</th>
61.     </tr>
62. </tfoot>
63. </table>
64. </div>
65. <!-- /.card-body -->
66. </div>
67. </div><!-- /.container-fluid -->
68. </section>

```

View (add.php)

```

1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h3 class="m-0 text-dark">Form tambah Data Bobot</h3>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card card-primary">
14.             <div class="card-header">
15.                 <h3 class="card-title">Menambah Data Bobot</h3>
16.             </div>
17.             <!-- /.card-header -->
18.             <!-- form start -->
19.             <?php echo form_open('tbl_bobot/add'); ?>

```

```

20.         <div class="card-body">
21.             <label for="bobot_kriteria1" class="control-
label"><span class="text-
danger">*</span>Bobot Kriteria1<small>(Harga)</small></label>
22.                 <div class="form-group">
23.                     <input type="text" name="bobot_kriteria1" valu
e="<?php echo $this->input-
>post('bobot_kriteria1'); ?>" class="form-
control" id="bobot_kriteria1" />
24.                     <span class="text-
danger"><?php echo form_error('bobot_kriteria1'); ?></span>
25.                 </div>
26.             <label for="bobot_kriteria2" class="control-
label"><span class="text-
danger">*</span>Bobot Kriteria2<small>(Kamera belakang)</small></l
abel>
27.                 <div class="form-group">
28.                     <input type="text" name="bobot_kriteria2" valu
e="<?php echo $this->input-
>post('bobot_kriteria2'); ?>" class="form-
control" id="bobot_kriteria2" />
29.                     <span class="text-
danger"><?php echo form_error('bobot_kriteria2'); ?></span>
30.                 </div>
31.             <label for="bobot_kriteria3" class="control-
label"><span class="text-
danger">*</span>Bobot Kriteria3<small>(Kamera Depan)</small></labe
l>
32.                 <div class="form-group">
33.                     <input type="text" name="bobot_kriteria3" valu
e="<?php echo $this->input-
>post('bobot_kriteria3'); ?>" class="form-
control" id="bobot_kriteria3" />
34.                     <span class="text-
danger"><?php echo form_error('bobot_kriteria3'); ?></span>
35.                 </div>
36.             <label for="bobot_kriteria4" class="control-
label"><span class="text-
danger">*</span>Bobot Kriteria4<small>(Memori)</small></label>
37.                 <div class="form-group">
38.                     <input type="text" name="bobot_kriteria4" valu
e="<?php echo $this->input-
>post('bobot_kriteria4'); ?>" class="form-
control" id="bobot_kriteria4" />
39.                     <span class="text-
danger"><?php echo form_error('bobot_kriteria4'); ?></span>
40.                 </div>
41.             <label for="id_user" class="control-
label"><span class="text-danger">*</span>Id User</label>
42.                 <div class="form-group">
43.                     <input type="text" name="id_user" value="<?php
echo $this->input->post('id_user'); ?>" class="form-
control" id="id_user" />
44.                     <span class="text-
danger"><?php echo form_error('id_user'); ?></span>

```

```

45.         </div>
46.     </div>
47.     <div class="card-footer">
48.         <button type="submit" class="btn btn-
primary">Simpan Data</button>
49.     </div>
50.     <?php echo form_close(); ?>
51. </div>
52. </div><!-- /.container-fluid -->
53. </section>

```

View (edit.php)

```

1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h3 class="m-0 text-
dark">Form Edit Data Bobot</h3>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card card-primary">
14.             <div class="card-header">
15.                 <h3 class="card-title">Mengedit Data Bobot</h3>
16.             </div>
17.             <!-- /.card-header -->
18.             <!-- form start -->
19.             <?php echo form_open('tbl_bobot/edit/' . $tbl_bobot['id
_bobot']); ?>
20.             <div class="card-body">
21.                 <label for="bobot_kriteria1" class="control-
label"><span class="text-
danger">*</span>Bobot Kriteria1<small>(Harga)</small></label>
22.                 <div class="form-group">
23.                     <input type="text" name="bobot_kriteria1" valu
e="<?php echo ($this->input->post('bobot_kriteria1') ? $this-
>input-
>post('bobot_kriteria1') : $tbl_bobot['bobot_kriteria1']); ?>" cl
ass="form-control" id="bobot_kriteria1" />
24.                     <span class="text-
danger"><?php echo form_error('bobot_kriteria1'); ?></span>
25.                 </div>
26.                 <label for="bobot_kriteria2" class="control-
label"><span class="text-
danger">*</span>Bobot Kriteria2<small>(Kamera Belakang)</small></l
abel>
27.                 <div class="form-group">
28.                     <input type="text" name="bobot_kriteria2" valu

```

```

e="<?php echo ($this->input->post('bobot_keriteria2') ? $this-
>input-
>post('bobot_keriteria2') : $tbl_bobot['bobot_keriteria2']); ?>" cl
ass="form-control" id="bobot_keriteria2" />
29.         <span class="text-
danger"><?php echo form_error('bobot_keriteria2'); ?></span>
30.         </div>
31.         <label for="bobot_keriteria3" class="control-
label"><span class="text-
danger">*</span>Bobot Keriteria3<small>(Kamera Depan)</small></labe
l>
32.         <div class="form-group">
33.             <input type="text" name="bobot_keriteria3" valu
e="<?php echo ($this->input->post('bobot_keriteria3') ? $this-
>input-
>post('bobot_keriteria3') : $tbl_bobot['bobot_keriteria3']); ?>" cl
ass="form-control" id="bobot_keriteria3" />
34.             <span class="text-
danger"><?php echo form_error('bobot_keriteria3'); ?></span>
35.             </div>
36.             <label for="bobot_keriteria4" class="control-
label"><span class="text-
danger">*</span>Bobot Keriteria4<small>(Memori)</small></label>
37.             <div class="form-group">
38.                 <input type="text" name="bobot_keriteria4" valu
e="<?php echo ($this->input->post('bobot_keriteria4') ? $this-
>input-
>post('bobot_keriteria4') : $tbl_bobot['bobot_keriteria4']); ?>" cl
ass="form-control" id="bobot_keriteria4" />
39.                 <span class="text-
danger"><?php echo form_error('bobot_keriteria4'); ?></span>
40.                 </div>
41.                 <label for="id_user" class="control-
label"><span class="text-danger">*</span>Id User</label>
42.                 <div class="form-group">
43.                     <input type="text" name="id_user" value="<?php
echo ($this->input->post('id_user') ? $this->input-
>post('id_user') : $tbl_bobot['id_user']); ?>" class="form-
control" id="id_user" />
44.                     <span class="text-
danger"><?php echo form_error('id_user'); ?></span>
45.                     </div>
46.                 </div>
47.
48.                 <div class="card-footer">
49.                     <button type="submit" class="btn btn-
primary">Submit</button>
50.                 </div>
51.                 <?php echo form_close(); ?>
52.             </div>
53.         </div><!-- /.container-fluid -->
54. </section>

```


Lampiran Source Code Proses Entropy

Controller (Proses_entropy.php)

```
1. <?php
2. defined('BASEPATH') or exit('No direct script access allowed');
3.
4. class Proses_entropy extends CI_Controller
5. {
6.     function __construct()
7.     {
8.         parent::__construct();
9.         $this->load->model('Entropy_model');
10.    }
11.
12.    public function index()
13.    {
14.        $data['_view'] = 'entropy/index';
15.        $this->load->view('layouts/main', $data);
16.    }
17.
18.    public function proses()
19.    {
20.        $where = $this->input->post('parameter');
21.        $data_criteria = $this->Entropy_model-
>get_criteria($where);
22.        $data_sum = $this->Entropy_model->sumdata($where);
23.        if ($data_sum->num_rows() > 0) {
24.
25.            $total = $data_sum->row();
26.            $criteria1 = $total->c1;
27.            $criteria2 = $total->c2;
28.            $criteria3 = $total->c3;
29.            $criteria4 = $total->c4;
30.        }
31.
32.        $cr1 = 0;
33.        $cr2 = 0;
34.        $cr3 = 0;
35.        $cr4 = 0;
36.        $totalAlternatif = count($data_criteria);
37.        $N = (-1 / log($totalAlternatif));
38.
39.        $hasil = array();
40.        foreach ($data_criteria as $row) {
41.            $hasil[] = array(
42.                $cr1 += $row->kriteria_1 / $criteria1 * log($row-
>kriteria_1 / $criteria1),
43.                $cr2 += $row->kriteria_2 / $criteria2 * log($row-
>kriteria_2 / $criteria2),
44.                $cr3 += $row->kriteria_3 / $criteria3 * log($row-
>kriteria_3 / $criteria3),
45.                $cr4 += $row->kriteria_4 / $criteria4 * log($row-
```

```

    >kriteria_4 / $criteria4),
46.     );
47.     }
48.     $nilaitotal_ej = ((1 - ($N * $scr1)) + (1 -
    ($N * $scr2)) + (1 - ($N * $scr3)) + (1 - ($N * $scr4)));
49.
50.     $w_c1 = ((1 - ($N * $scr1)) / $nilaitotal_ej);
51.     $w_c2 = ((1 - ($N * $scr2)) / $nilaitotal_ej);
52.     $w_c3 = ((1 - ($N * $scr3)) / $nilaitotal_ej);
53.     $w_c4 = ((1 - ($N * $scr4)) / $nilaitotal_ej);
54.     $total = (($w_c1) + ($w_c2) + ($w_c3) + ($w_c4));
55.     // print_r($total);
56.     $data = array(
57.         'c1' => $w_c1,
58.         'c2' => $w_c2,
59.         'c3' => $w_c3,
60.         'c4' => $w_c4,
61.         'total' => $total,
62.         'tipe' => $this->input->post('parameter'),
63.         'id_user' => $this->session->userdata('user_id'),
64.         '_view' => 'entropy/hasil'
65.     );
66.     $this->load->view('layouts/main', $data);
67.     }
68.
69.     public function proses_user()
70.     {
71.         $where = $this->session->userdata('user_id');
72.         $data_criteria = $this->Entropy_model-
    >get_criteria($where);
73.         $data_sum = $this->Entropy_model->sumdata($where);
74.         if ($data_sum->num_rows() > 0) {
75.
76.             $total = $data_sum->row();
77.             $criteria1 = $total->c1;
78.             $criteria2 = $total->c2;
79.             $criteria3 = $total->c3;
80.             $criteria4 = $total->c4;
81.         }
82.
83.         $scr1 = 0;
84.         $scr2 = 0;
85.         $scr3 = 0;
86.         $scr4 = 0;
87.         $totalAlternatif = count($data_criteria);
88.         $N = (-1 / log($totalAlternatif));
89.
90.         $hasil = array();
91.         foreach ($data_criteria as $row) {
92.             $hasil[] = array(
93.                 $scr1 += $row->kriteria_1 / $criteria1 * log($row-
    >kriteria_1 / $criteria1),
94.                 $scr2 += $row->kriteria_2 / $criteria2 * log($row-
    >kriteria_2 / $criteria2),
95.                 $scr3 += $row->kriteria_3 / $criteria3 * log($row-

```

```

    >kriteria_3 / $criteria3),
96.         $cr4 += $row->kriteria_4 / $criteria4 * log($row-
    >kriteria_4 / $criteria4),
97.     );
98.     }
99.     $nilaitotal_ej = ((1 - ($N * $cr1)) + (1 -
    ($N * $cr2)) + (1 - ($N * $cr3)) + (1 - ($N * $cr4)));
100.
101.     $w_c1 = ((1 - ($N * $cr1)) / $nilaitotal_ej);
102.     $w_c2 = ((1 - ($N * $cr2)) / $nilaitotal_ej);
103.     $w_c3 = ((1 - ($N * $cr3)) / $nilaitotal_ej);
104.     $w_c4 = ((1 - ($N * $cr4)) / $nilaitotal_ej);
105.     $total = (($w_c1) + ($w_c2) + ($w_c3) + ($w_c4));
106.     // print_r($total);
107.     $data = array(
108.         'c1' => $w_c1,
109.         'c2' => $w_c2,
110.         'c3' => $w_c3,
111.         'c4' => $w_c4,
112.         'total' => $total,
113.         'tipe' => $this->input->post('parameter'),
114.         'id_user' => $this->session-
    >userdata('user_id'),
115.         '_view' => 'entropy/hasil'
116.     );
117.     $this->load->view('layouts/main', $data);
118.     }
119. }

```

Model (Entropy_model.php)

```

1. <?php
2. class Entropy_model extends CI_Model
3. {
4.     public function get_criteria($where)
5.     {
6.         $this->db->select('*');
7.         $query = $this->db-
    >get_where('tbl_alternatif', array('id_user' => $where));
8.         return $query->result();
9.     }
10.
11.     public function sumdata($where)
12.     {
13.         $this->db->select_sum('kriteria_1', 'c1');
14.         $this->db->select_sum('kriteria_2', 'c2');
15.         $this->db->select_sum('kriteria_3', 'c3');
16.         $this->db->select_sum('kriteria_4', 'c4');
17.         $query = $this->db-
    >get_where('tbl_alternatif', array('id_user' => $where));
18.         return $query;
19.     }

```

```
20. }
```

View (index.php)

```
1. <div class="content-header">
2.     <div class="container-fluid">
3.         <div class="row mb-2">
4.             <div class="col-sm-6">
5.                 <h1 class="m-0 text-dark">Proses Entropy</h1>
6.             </div><!-- /.col -->
7.         </div><!-- /.row -->
8.     </div><!-- /.container-fluid -->
9. </div>
10.
11. <section class="content">
12.     <div class="container-fluid">
13.         <div class="card card-primary">
14.             <div class="card-header">
15.                 <h3 class="card-title"></h3>
16.             </div>
17.             <!-- /.card-header -->
18.             <!-- form start -->
19.             <?php echo form_open('proses_entropy/proses'); ?>
20.             <div class="card-body">
21.                 <label for="parameter" class="control-
22. label"><span class="text-danger">*</span>Masukan ID User</label>
23.                 <div class="form-group">
24.                     <input type="text" name="parameter" value="<?ph
25. p echo $this->input->post('parameter'); ?>" class="form-
26. control" id="parameter" required />
27.                     <span class="text-
28. danger"><?php echo form_error('parameter'); ?></span>
29.                 </div>
30.             </div>
31.             <div class="card-footer">
32.                 <button type="submit" class="btn btn-
33. primary">Kirim</button>
34.             </div>
35.             <?php echo form_close(); ?>
36.         </div>
37.     </div><!-- /.container-fluid -->
38. </section>
```

View (Hasil.php)

```
1. <div id="container-fluid">
2.   <h1>Entropy</h1>
3.   <div class="container-fluid">
4.     <div class="row">
5.       <div class="col-md-12">
6.         <div class="card">
7.           <!-- /.card-header -->
8.           <div class="card-body">
9.             <table class="table table-bordered">
10.              <thead>
11.                <tr>
12.                  <th style="width: 10px">#</th>
13.
14.                  <th>Nama Kriteria</th>
15.                  <th>Nilai Bobot masing-
16.                  masing kriteria</th>
17.                </tr>
18.              </thead>
19.              <tbody>
20.                <tr>
21.                  <td>1.</td>
22.                  <td>Keriteria 1</td>
23.                  <td>
24.                    <div class="col-md-12">
25.                      <div class="form-
26.                      group">
27.                        <input type="text"
28.                        name="bobot_kriteria1" value="<?=$c1 ?>" class="form-
29.                        control" id="bobot_kriteria1" readonly />
30.                        <span class="text-
31.                        danger"><?php echo form_error('bobot_kriteria1'); ?></span>
32.                      </div>
33.                    </div>
34.                  </td>
35.                </tr>
36.                <tr>
37.                  <td>2.</td>
38.                  <td>Keriteria 2</td>
39.                  <td>
40.                    <div class="col-md-12">
41.                      <div class="form-
42.                      group">
43.                        <input type="text"
44.                        name="bobot_kriteria2" value="<?=$c2 ?>" class="form-
45.                        control" id="bobot_kriteria2" readonly />
46.                        <span class="text-
47.                        danger"><?php echo form_error('bobot_kriteria2'); ?></span>
48.                      </div>
49.                    </div>
50.                  </td>
51.                </tr>
52.              </tbody>
53.            </table>
54.          </div>
55.        </div>
56.      </div>
57.    </div>
58.  </div>
```

```

42.         </tr>
43.         <tr>
44.             <td>3.</td>
45.             <td>Keriteria 3</td>
46.             <td>
47.                 <div class="col-md-12">
48.                     <div class="form-
group">
49.                         <input type="text"
name="bobot_keriteria3" value="<?= $c3 ?>" class="form-
control" id="bobot_keriteria3" readonly />
50.                         <span class="text-
danger"><?php echo form_error('bobot_keriteria3'); ?></span>
51.                     </div>
52.                 </div>
53.             </td>
54.         </tr>
55.         <tr>
56.             <td>4.</td>
57.             <td>Keriteria 4</td>
58.             <td>
59.                 <div class="col-md-12">
60.                     <div class="form-
group">
61.                         <input type="text"
name="bobot_keriteria4" value="<?= $c4 ?>" class="form-
control" id="bobot_keriteria4" readonly />
62.                         <span class="text-
danger"><?php echo form_error('bobot_keriteria4'); ?></span>
63.                     </div>
64.                 </div>
65.                 <div class="col-md-12">
66.                     <div class="form-
group">
67.                         <input type="text"
name="id_user" value="<?= $id_user ?>" class="form-
control" id="id_user" hidden />
68.                         <span class="text-
danger"><?php echo form_error('id_user'); ?></span>
69.                     </div>
70.                 </div>
71.                 <div class="col-md-12">
72.                     <div class="form-
group">
73.                         <input type="text"
name="tipe" value="<?= $tipe ?>" class="form-
control" id="tipe" hidden />
74.                         <span class="text-
danger"><?php echo form_error('tipe'); ?></span>
75.                     </div>
76.                 </div>
77.             </td>
78.         </tr>
79.         <tr>
80.             <td>4.</td>

```

```
81.                                     <th scope="col">Aksi</th>
82.                                     <th scope="col"><input type="su
    bmit" name="submit" value="Simpan Data Entropy" class="btn btn-
    success"></th>
83.                                     </tr>
84.                                     </tbody>
85.                                     <?php echo form_close(); ?>
86.                                 </table>
87.                             </div>
88.                         </div>
89.                     </div>
90.                 </div>
91.             </div>
92. </div>
```