SOURCE CODE APLIKASI
TABEL KOMPOSISI PANGAN INDONESIA
(TKPI)

Kata Pengantar

Assalamualaikum Warahmatullahi Wabarakatuh.

Puji syukur kami panjatkan kehadirat Allah SWT yang telah memberikan petunjuk dan perlindungan sehingga kami menyelesaikan penyusunan sourcecode Aplikasi Tabel Komposisi Pangan Indonesia (TKPI).

Semoga buku ini dapat bermanfaat bagi kita semua dan dapat meningkatkan pengetahuan masyarakat. Selanjutnya juga mohon kritik dan saran untuk meningkatkan kualitas aplikasi ini. Semoga Allah SWT senantiasa memberikan rahmat dan hidayah-Nya kepada kita sehingga mampu mengukir prestasi. Aamiin.

Wassalamu'alaikum Warahmatullahi Wabarakatuh.

Daftar Isi

Config

1. database.php

```php
<?php
defined('BASEPATH') or exit('No direct
script access allowed');
$active_group = 'default';
$query_builder = TRUE;

$db['default'] = array(
 'dsn' => '',
 'hostname' => 'localhost',
 'username' => tkpi
 'password' => 'foreverchyan130488',
 'database' => tkpi
 'dbdriver' => 'mysqli',
 'dbprefix' => '',
 'pconnect' => FALSE,
 'db_debug'     =>     (ENVIRONMENT     !==
'production'),
 'cache_on' => FALSE,
 'cachedir' => '',
 'char_set' => 'utf8',
 'dbcollat' => 'utf8_general_ci',
 'swap_pre' => '',
 'encrypt' => FALSE,
 'compress' => FALSE,
 'stricton' => FALSE,
 'failover' => array(),
 'save_queries' => TRUE
);
```

2.   routes.php

```php
<?php
defined('BASEPATH') or exit('No direct
script access allowed');

$route['default_controller'] = 'Auth';
$route['404_override'] = '';
$route['translate_uri_dashes'] = FALSE;
```

Models

1.   Menu_model.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Menu_model extends CI_Model
{
    public function getSubMenu()
    {
        $query = "SELECT sm.*, m.menu
        FROM user_sub_menu as sm JOIN
user_menu as m
        ON sm.menu_id = m.id
    ";
        return $this->db->query($query)-
>result_array();
    }
}
```

2.   Kebutuhan_gizi_model.php

```php
<?php
```

```
if (!defined('BASEPATH'))
    exit('No direct script access allowed');

class Kebutuhan_gizi_model extends CI_Model
{

    public $table = 'tbl_kebutuhan_kalori';
    public $id = 'id_kebutuhan_kalori';
    public $order = 'DESC';

    function __construct()
    {
        parent::__construct();
    }

    // get all
    function get_all()
    {
        $this->db->order_by($this->id, $this-
>order);
        return $this->db->get($this->table)-
>result();
    }

    // get data by id
    function get_by_id($id)
    {
        $this->db->where($this->id, $id);
        return $this->db->get($this->table)-
>row();
    }

    // get total rows
    function total_rows($q = NULL)
    {
        $this->db->like('id_kebutuhan_kalori',
$q);
```

```
        $this->db->or_like('tanggal', $q);
        $this->db->or_like('berat_badan', $q);
        $this->db->or_like('tinggi_badan',
$q);
        $this->db->or_like('umur', $q);
        $this->db->or_like('jenis_kelamin',
$q);
        $this->db->or_like('faktor_aktivitas',
$q);
        $this->db->or_like('imt', $q);
        $this->db->or_like('bbi', $q);
        $this->db->or_like('amb', $q);
        $this->db->or_like('tde', $q);
        $this->db->or_like('email', $q);
        $this->db->from($this->table);
        return $this->db->count_all_results();
    }

    // get data with limit and search
    function get_limit_data($limit, $start =
0, $q = NULL)
    {
        $this->db->order_by($this->id, $this-
>order);
        $this->db->like('id_kebutuhan_kalori',
$q);
        $this->db->or_like('tanggal', $q);
        $this->db->or_like('berat_badan', $q);
        $this->db->or_like('tinggi_badan',
$q);
        $this->db->or_like('umur', $q);
        $this->db->or_like('jenis_kelamin',
$q);
        $this->db->or_like('faktor_aktivitas',
$q);
        $this->db->or_like('imt', $q);
        $this->db->or_like('bbi', $q);
        $this->db->or_like('amb', $q);
```

```
        $this->db->or_like('tde', $q);
        $this->db->or_like('email', $q);
        $this->db->limit($limit, $start);
        return $this->db->get($this->table)-
>result();
    }

    // insert data
    function insert($data)
    {
        $this->db->insert($this->table,
$data);
    }

    // update data
    function update($id, $data)
    {
        $this->db->where($this->id, $id);
        $this->db->update($this->table,
$data);
    }
    // delete data
    function delete($id)
    {
        $this->db->where($this->id, $id);
        $this->db->delete($this->table);
    }

    public function getKebutuhan()
    {
        $this->db->select("*");
        $this->db-
>from('tbl_kebutuhan_kalori');
        $this->db->where('email', $this-
>session->userdata('email'));
        return $this->db->get();
    }
}
```

View

3.   Auth.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Auth extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        $this->load-
>library('form_validation');
    }
    public function index()
    {
        if ($this->session->userdata('email'))
{
            redirect('user');
        }

        $this->form_validation-
>set_rules('email', 'Email',
'required|trim|valid_email');
        $this->form_validation-
>set_rules('password', 'Password',
'required|trim');

        if ($this->form_validation->run() ==
false) {
            $data['title'] = 'TKPI User
Login';
            $this->load-
>view('templates/auth_header', $data);
            $this->load->view('auth/login');
```

```
            $this->load-
>view('templates/auth_footer');
        } else {
            //validasi sukses
            $this->_login();
        }
    }
    private function _login()
    {
        $email = $this->input->post('email');
//ambil data email dari inputan form
        $password = $this->input-
>post('password'); //ambil data password dari
inputan form

        $user = $this->db->get_where('user',
['email' => $email])->row_array();
//mencocokan email dengan email yang ada di
database
        //jika usernya ada
        if ($user) {
            //jika usernya aktif
            if ($user['is_active'] == 1) {
                //cek password yang di input
dengan di database
                if (password_verify($password,
$user['password'])) {
                    $data = [
                        'email' =>
$user['email'],
                        'role_id' =>
$user['role_id']
                    ];
                    $this->session-
>set_userdata($data);
                    if ($user['role_id'] == 1)
{
                        redirect('admin');
```

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```
                        } else {
                            redirect('user');
                        }
                    } else {
                        $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">Wrong
password!</div>');
                        redirect('auth');
                    }
                } else {
                    $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">This email has not
been activeted!</div>');
                    redirect('auth');
                }
            } else {
                $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">Email is not
registered!</div>');
                redirect('auth');
            }
        }

    public function registration()
    {
        if ($this->session->userdata('email'))
{
            redirect('user');
        }
        //rule atau aturan untuk mengisi form
registrasi
        //required = harus di isi trim = itu
menghilangkan spasi didepa/belakang
        $this->form_validation-
>set_rules('name', 'Name', 'required|trim');
```

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```
        $this->form_validation-
>set_rules('email', 'Email',
'required|trim|valid_email|is_unique[user.emai
l]', [
            'is_unique' => 'This email has
already registered!'
        ]);
        $this->form_validation->set_rules(
            'password1',
            'Password',

'required|trim|min_length[3]|matches[password2
]',
            [
                'matches' => 'Password dont
match!',
                'min_length' => 'Password too
short!'
            ]
        );
        $this->form_validation-
>set_rules('password2', 'Password',
'required|trim|matches[password1]');
        if ($this->form_validation->run() ==
false) {
            $data['title'] = 'TKPI User
Registration';
            $this->load-
>view('templates/auth_header', $data);
            $this->load-
>view('auth/registration');
            $this->load-
>view('templates/auth_footer');
        } else {
            $data = [
                'name' =>
htmlspecialchars($this->input->post('name',
true)),
```

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```
                    'email' =>
htmlspecialchars($this->input->post('email',
true)),
                    'image' => 'default.jpg',
                    'password' =>
password_hash($this->input->post('password1'),
PASSWORD_DEFAULT),
                    'role_id' => 2,
                    'is_active' => 1,
                    'date_created' => time()
                ];
                $this->db->insert('user', $data);
                $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">Congratulation!
your account has been created. Please
login</div>');
                redirect('auth');
            }
    }

    public function logout()
    {
        $this->session-
>unset_userdata('email');
        $this->session-
>unset_userdata('role_id');

        $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">You have been
logged out!</div>');
        redirect('auth');
    }
    public function blocked()
    {
        $this->load->view('auth/blocked');
    }
```

}

4.   Admin.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Admin extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        is_logged_in();
    }
    public function index()
    {
        $data['title'] = 'Dashboard';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
        $this->load->view('admin/index',
$data);
        $this->load->view('templates/footer');
    }

    public function role()
    {
        $data['title'] = 'Role';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
```

```php
        //ambil data dari user_role
        $data['role'] = $this->db-
>get('user_role')->result_array();

        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
        $this->load->view('admin/role',
$data);
        $this->load->view('templates/footer');
    }

    public function roleAccess($role_id)
    {
        $data['title'] = 'Role Access';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //ambil data dari user_role
        $data['role'] = $this->db-
>get_where('user_role', ['id' => $role_id])-
>row_array();

        $this->db->where('id !=', 1);
        $data['menu'] = $this->db-
>get('user_menu')->result_array();

        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
```

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```
        $this->load->view('admin/role-access',
$data);
        $this->load->view('templates/footer');
    }

    public function changeAccess()
    {
        $menu_id = $this->input-
>post('menuId');
        $role_id = $this->input-
>post('roleId');
        $data = [
            'role_id' => $role_id,
            'menu_id' => $menu_id
        ];

        $result = $this->db-
>get_where('user_access_menu', $data);

        if ($result->num_rows() < 1) {
            $this->db-
>insert('user_access_menu', $data);
        } else {
            $this->db-
>delete('user_access_menu', $data);
        }
        $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">Access
Changed!</div>');
    }
}
```

5.   Menu.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Menu extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        is_logged_in();
    }
    public function index()
    {
        $data['title'] = 'Menu Management';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //ambil data dari user_menu
        $data['menu'] = $this->db-
>get('user_menu')->result_array();

        //rule inputan
        $this->form_validation-
>set_rules('menu', 'Menu', 'required');

        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('templates/header', $data);
            $this->load-
>view('templates/sidebar', $data);
            $this->load-
>view('templates/topbar', $data);
            $this->load->view('menu/index',
$data);
```

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```
                $this->load-
>view('templates/footer');
        } else {
            $this->db->insert('user_menu',
['menu' => $this->input->post('menu')]);
            $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New menu
added!</div>');
            redirect('menu');
        }
    }

    public function submenu()
    {
        $data['title'] = 'Submenu Management';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //load model getSubMenu
        $this->load->model('Menu_model',
'menu');
        //ambil data dari user_menu
        $data['subMenu'] = $this->menu-
>getSubMenu();
        //kirim menu
        $data['menu'] = $this->db-
>get('user_menu')->result_array();
        //rule inputan submenu
        $this->form_validation-
>set_rules('title', 'Title', 'required');
        $this->form_validation-
>set_rules('menu_id', 'Menu', 'required');
        $this->form_validation-
>set_rules('url', 'URL', 'required');
        $this->form_validation-
>set_rules('icon', 'icon', 'required');
```

```
        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('templates/header', $data);
            $this->load-
>view('templates/sidebar', $data);
            $this->load-
>view('templates/topbar', $data);
            $this->load->view('menu/submenu',
$data);
            $this->load-
>view('templates/footer');
        } else {
            $data = [
                'title' => $this->input-
>post('title'),
                'menu_id' => $this->input-
>post('menu_id'),
                'url' => $this->input-
>post('url'),
                'icon' => $this->input-
>post('icon'),
                'is_active' => $this->input-
>post('is_active')
            ];
            $this->db->insert('user_sub_menu',
$data);
            $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New submenu
added!</div>');
            redirect('menu/submenu');
        }
    }
}
```

6.   Tkpi.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Tkpi extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        is_logged_in();
    }

    public function index()
    {
        $data['title'] = 'Tkpi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
        $this->load->view('tkpi/index',
$data);
        $this->load->view('templates/footer');
    }


    public function komposisipangan()
    {
        $data['title'] = 'Komposisi Pangan';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
```

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```
        //load model getSubMenu
        //$this->load->model('Menu_model',
'menu');
        //ambil data dari user_menu
        //$data['subMenu'] = $this->menu-
>getSubMenu();
        //kirim menu
        $data['komposisipangan'] = $this->db-
>get('tbl_kpi')->result_array();
        //rule inputan submenu
        $this->form_validation-
>set_rules('title', 'Title', 'required');
        $this->form_validation-
>set_rules('menu_id', 'Menu', 'required');
        $this->form_validation-
>set_rules('url', 'URL', 'required');
        $this->form_validation-
>set_rules('icon', 'icon', 'required');


        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('templates/header', $data);
            $this->load-
>view('templates/sidebar', $data);
            $this->load-
>view('templates/topbar', $data);
            $this->load-
>view('tkpi/komposisipangan', $data);
            $this->load-
>view('templates/footer');
        } else {
            //menyimpan data
            $data = [
                'title' => $this->input-
>post('title'),
```

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```
                'menu_id' => $this->input-
>post('menu_id'),
                'url' => $this->input-
>post('url'),
                'icon' => $this->input-
>post('icon'),
                'is_active' => $this->input-
>post('is_active')
            ];
            $this->db->insert('user_sub_menu',
$data);
            $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New submenu
added!</div>');
            redirect('tkpi/komposisipangan');
        }
    }
}
```

7.   User.php

```
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class User extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        is_logged_in();
    }

    public function index()
    {
        $data['title'] = 'My Profile';
```

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```php
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        //$this->load-
>view('templates/header', $data);
        //$this->load-
>view('templates/sidebar', $data);
        //$this->load-
>view('templates/topbar', $data);
        // $this->load->view('user/index',
$data);
        //$this->load-
>view('templates/footer');

        $this->load->view('template/header',
$data);
        $this->load->view('template/topbar',
$data);
        // $this->load->view('user/index',
$data);
        $this->load->view('template/footer');
    }

    public function edit()
    {
        $data['title'] = 'Edit Profile';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->form_validation-
>set_rules('name', 'Full Name',
'required|trim');
        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('template/header', $data);
            //   $this->load-
>view('templates/sidebar', $data);
```

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```
                    //  $this->load-
>view('templates/topbar', $data);
                $this->load->view('user/edit',
$data);
                $this->load-
>view('template/footer');
          } else {
                $name = $this->input-
>post('name');
                $email = $this->input-
>post('email');
                // cek jika ada gambar yang akan
diupload
                $upload_image =
$_FILES['image']['name'];
                if ($upload_image) {
                    $config['allowed_types'] =
'gif|jpg|png';
                    $config['max_size']      =
'2048';
                    $config['upload_path'] =
'./assets/img/profile/';
                    $this->load->library('upload',
$config);
                    if ($this->upload-
>do_upload('image')) {
                        $old_image =
$data['user']['image'];
                        if ($old_image !=
'default.jpg') {
                            unlink(FCPATH .
'assets/img/profile/' . $old_image);
                        }
                        $new_image = $this-
>upload->data('file_name');
                        $this->db->set('image',
$new_image);
                    } else {
```

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```
                        echo $this->upload-
>dispay_errors();
                    }
                }
                $this->db->set('name', $name);
                $this->db->where('email', $email);
                $this->db->update('user');
                $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">Your profile has
been updated!</div>');
                redirect('user');
            }
        }

    public function changePassword()
    {
        $data['title'] = 'Change Password';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->form_validation-
>set_rules('current_password', 'Current
Password', 'required|trim');
        $this->form_validation-
>set_rules('new_password1', 'New Password',
'required|trim|min_length[3]|matches[new_passw
ord2]');
        $this->form_validation-
>set_rules('new_password2', 'Confirm New
Password',
'required|trim|min_length[3]|matches[new_passw
ord1]');
        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('template/header', $data);
```

```
            //$this->load-
>view('templates/sidebar', $data);
            //  $this->load-
>view('templates/topbar', $data);
            $this->load-
>view('user/changepassword', $data);
            $this->load-
>view('template/footer');
        } else {
            $current_password = $this->input-
>post('current_password');
            $new_password = $this->input-
>post('new_password1');
            if
(!password_verify($current_password,
$data['user']['password'])) {
                $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">Wrong current
password!</div>');

redirect('user/changepassword');
            } else {
                if ($current_password ==
$new_password) {
                    $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">New password cannot
be the same as current password!</div>');

redirect('user/changepassword');
                } else {
                    // password sudah ok
                    $password_hash =
password_hash($new_password,
PASSWORD_DEFAULT);
                    $this->db->set('password',
$password_hash);
```

```
                        $this->db->where('email',
$this->session->userdata('email'));
                        $this->db->update('user');
                        $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">Password
changed!</div>');

redirect('user/changepassword');
                }
            }
        }
    }
}
```

8. Gizi.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Gizi extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        is_logged_in();
        $this->load->model('hapus_model');
        $this->load-
>model('Kebutuhan_gizi_model');
    }
    function autocomplate_bahan()
    {
```

```php
            autocomplate_json('tbl_kpi',
'nama_bahan');
    }

    function autocomplate()
    {
        $this->db->like('nama_bahan',
$_GET['term']);
        $this->db->select('nama_bahan');
        $products = $this->db->get('tbl_kpi')-
>result();
        foreach ($products as $product) {
            $return_arr[] = $product-
>nama_bahan;
        }
        echo json_encode($return_arr);
    }

    function autofill()
    {
        $menu = $_GET['menu'];
        $this->db->where('nama_bahan', $menu);
        $bahan = $this->db->get('tbl_kpi')-
>row_array();
        $data = array(
            'energi' => $bahan['energi'],
        );
        echo json_encode($data);
    }

    public function index()
    {
        $data['title'] = 'Gizi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->load->view('templates/header',
$data);
```

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```
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
        $this->load->view('gizi/index',
$data);
        $this->load->view('templates/footer');
    }


    public function kebutuhangizi()
    {
        $data['title'] = 'Kebutuhan Gizi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //load model getSubMenu
        $this->load->model('Kebutuhan_model',
'gizi');
        //ambil data dari user_menu
        $data['kebutuhangizi'] = $this->gizi-
>getKebutuhan()->result_array();
        //kirim menu
        //$data['menu'] = $this->db-
>get('coba')->result_array();
        //rule inputan submenu
        $this->_rules();
        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('template/header', $data);
            //$this->load-
>view('template/topbar', $data);
            $this->load-
>view('gizi/kebutuhangizi', $data);
            $this->load-
>view('template/footer');
```

```php
        //$this->load-
>view('templates/header', $data);
            // $this->load-
>view('templates/sidebar', $data);
            // $this->load-
>view('templates/topbar', $data);
            // $this->load-
>view('gizi/kebutuhangizi', $data);
            //   $this->load-
>view('templates/footer');
        } else {
            //mendapakan nilai yang dikirim
            $berat_badan = (float) $this-
>input->post('berat_badan', TRUE);
            $tinggi_badan = (float) $this-
>input->post('tinggi_badan', TRUE);
            $umur = (float) $this->input-
>post('umur', TRUE);
            $jenis_kelamin =  $this->input-
>post('jenis_kelamin', TRUE);
            $faktor_aktivitas = $this->input-
>post('faktor_aktivitas', TRUE);

            //rumus-rumus
            //rumus indek masa tubuh
            $tbtb = ($tinggi_badan *
$tinggi_badan) / 10000;
            $imt =  $berat_badan /  $tbtb;

            //rumus berat badan ideal
            $bbi = ($tinggi_badan - 100) - 0.1
* ($tinggi_badan - 100);

            //rumus angka metabolisme body
            if ($jenis_kelamin == "laki-laki")
{
```

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```php
            $amb = 66 + (13.7 *
$berat_badan) + (5 *  $tinggi_badan) - (6.8 *
$umur);
            } else {
                $amb = 655 + (9.6 *
$berat_badan) + (1.7 *  $tinggi_badan) - (4.7
*  $umur);
            }
            //rumus mendapatkan nilai faktor
aktifitas
            if ($faktor_aktivitas ==
"tidur/bedrest") {
                $fa = 1;
            } elseif ($faktor_aktivitas ==
"sangat ringan") {
                $fa = 1.3;
            } elseif ($faktor_aktivitas ==
"ringan") {
                $fa = 1.5;
            } elseif ($faktor_aktivitas ==
"sedang") {
                $fa = 2;
            } else {
                $fa = 2.5;
            }
            //rumus total dietary energy
            $tde = $amb * $fa;
            //menyimpan data
            $data = [
                'tanggal' => time(),
                'berat_badan' => $this->input-
>post('berat_badan', TRUE),
                'tinggi_badan' => $this-
>input->post('tinggi_badan', TRUE),
                'umur' => $this->input-
>post('umur', TRUE),
                'jenis_kelamin' => $this-
>input->post('jenis_kelamin', TRUE),
```

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```
                    'faktor_aktivitas' => $this-
>input->post('faktor_aktivitas', TRUE),
                    'imt' =>  $imt,
                    'bbi' =>  $bbi,
                    'amb' =>  $amb,
                    'tde' => $tde,
                    'email' => $this->input-
>post('email', TRUE)
                ];
                $this->db-
>insert('tbl_kebutuhan_kalori', $data);
                $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New need
added!</div>');
                redirect('gizi/kebutuhangizi');
            }
        }
        public function _rules()
        {
            $this->form_validation-
>set_rules('berat_badan', 'berat badan',
'trim|required');
            $this->form_validation-
>set_rules('tinggi_badan', 'tinggi badan',
'trim|required');
            $this->form_validation-
>set_rules('umur', 'umur', 'trim|required');
            $this->form_validation-
>set_rules('jenis_kelamin', 'jenis kelamin',
'trim|required');
            $this->form_validation-
>set_rules('faktor_aktivitas', 'faktor
aktivitas', 'trim|required');
            $this->form_validation-
>set_error_delimiters('<span class="text-
danger">', '</span>');
        }
```

```
    public function detail()
    {
        $id_kebutuhan_kalori = substr($this-
>uri->uri_string(3), 12);
        $data['title'] = 'Detail';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $sql_kebutuhan = "SELECT tanggal,
berat_badan, tinggi_badan, umur,
jenis_kelamin, tde, id_kebutuhan_kalori FROM
`tbl_kebutuhan_kalori` WHERE
id_kebutuhan_kalori='$id_kebutuhan_kalori'";
        $sql_kandungan = "SELECT
ta.kode_bahan,ta.nama_bahan,ta.jumlah_kandunga
n,ta.air,ta.energi,ta.protein,ta.lemak,ta.kh,t
a.serat,ta.abu,ta.kalsium,ta.fosfor,ta.besi,
ta.natrium, ta.kalium, ta.tembaga, ta.seng,
ta.retinol, ta.b_kar, ta.kar_total,
ta.thiamin, ta.riboflavin, ta.niasin,
ta.vit_c, tp.waktu_makan,tp.berat,
tp.id_detail_kandungan FROM
tbl_detail_kebutuhan as tp, tbl_kpi as ta
WHERE tp.kode_bahan=ta.kode_bahan and
tp.id_kebutuhan_kalori='$id_kebutuhan_kalori'"
;
        $data['kebutuhan'] =  $this->db-
>query($sql_kebutuhan)->row_array();
        $data['id_kebutuhan_kalori'] =
$id_kebutuhan_kalori;
        $data['kandungan'] =  $this->db-
>query($sql_kandungan)->result_array();
        $this->load->view('template/header',
$data);
        //$this->load->view('template/topbar',
$data);
```

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```
        $this->load->view('gizi/detail',
$data);
        $this->load->view('gizi/air', $data);
        $this->load->view('gizi/protein',
$data);
        $this->load->view('gizi/lemak',
$data);
        $this->load->view('gizi/kh', $data);
        $this->load->view('gizi/serat',
$data);
        $this->load->view('gizi/abu', $data);
        $this->load->view('gizi/kalsium',
$data);
        $this->load->view('gizi/fosfor',
$data);
        $this->load->view('gizi/besi', $data);
        $this->load->view('gizi/natrium',
$data);
        $this->load->view('gizi/kalium',
$data);
        $this->load->view('gizi/tembaga',
$data);
        $this->load->view('gizi/seng', $data);
        $this->load->view('gizi/retinol',
$data);
        $this->load->view('gizi/bkar', $data);
        $this->load->view('gizi/kartotal',
$data);
        $this->load->view('gizi/thiamin',
$data);
        $this->load->view('gizi/riboflavin',
$data);
        $this->load->view('gizi/niasin',
$data);
        $this->load->view('gizi/vitc', $data);
        $this->load->view('template/footer');
    }
    public function tambahmenu()
```

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```
    {
        $nama_bahan    = $this->input-
>post('menu');
        $kode_bahan    =
getFieldValue('tbl_kpi', 'kode_bahan',
'nama_bahan', $nama_bahan);
        $id_kebutuhan_kalori    = $this-
>input->post('id_kebutuhan_kalori');
        $berat         = (float) $this->input-
>post('berat');
        $data = array(
            'id_kebutuhan_kalori'    =>
$id_kebutuhan_kalori,
            'kode_bahan'   =>  $kode_bahan,
            'tanggal'      =>  time(),
            'waktu_makan' => $this->input-
>post('waktu_makan', TRUE),
            'berat'        =>  $berat
        );
        $this->db-
>insert('tbl_detail_kebutuhan', $data);
        $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New need
added!</div>');
        redirect('gizi/detail/' .
$id_kebutuhan_kalori);
    }

    public function lihatimt()
    {
        $data['title'] = 'Kebutuhan Gizi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $id_kebutuhan_kalori = substr($this-
>uri->uri_string(3), 14);
```

```
        $sql_kebutuhan = "SELECT tanggal, imt,
id_kebutuhan_kalori FROM
`tbl_kebutuhan_kalori` WHERE
id_kebutuhan_kalori='$id_kebutuhan_kalori'";
        $data['kebutuhan'] =  $this->db-
>query($sql_kebutuhan)->row_array();
        //load model getSubMen
        //kirim menu
        //$data['menu'] = $this->db-
>get('coba')->result_array();
        //rule inputan submenu
        $this->load->view('template/header',
$data);
        // $this->load-
>view('templates/sidebar', $data);
        // $this->load-
>view('templates/topbar', $data);
        $this->load->view('gizi/lihatimt',
$data);
        $this->load->view('template/footer');
    }
    public function lihatbbi()
    {
        $data['title'] = 'Kebutuhan Gizi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $id_kebutuhan_kalori = substr($this-
>uri->uri_string(3), 14);
        $sql_kebutuhan = "SELECT bbi,
berat_badan, tanggal, id_kebutuhan_kalori FROM
`tbl_kebutuhan_kalori` WHERE
id_kebutuhan_kalori='$id_kebutuhan_kalori'";
        $data['kebutuhan'] =  $this->db-
>query($sql_kebutuhan)->row_array();
        //load model getSubMen
        //kirim menu
```

```
        //$data['menu'] = $this->db-
>get('coba')->result_array();
        //rule inputan submenu

        $this->load->view('template/header',
$data);
        // $this->load-
>view('templates/sidebar', $data);
        // $this->load-
>view('templates/topbar', $data);
        $this->load->view('gizi/lihatbbi',
$data);
        $this->load->view('template/footer');
    }
    public function lihatamb()
    {
        $data['title'] = 'Kebutuhan Gizi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $id_kebutuhan_kalori = substr($this-
>uri->uri_string(3), 14);
        $sql_kebutuhan = "SELECT amb, tanggal,
id_kebutuhan_kalori FROM
`tbl_kebutuhan_kalori` WHERE
id_kebutuhan_kalori='$id_kebutuhan_kalori'";
        $data['kebutuhan'] = $this->db-
>query($sql_kebutuhan)->row_array();
        //load model getSubMen
        //kirim menu
        //$data['menu'] = $this->db-
>get('coba')->result_array();
        //rule inputan submenu

        $this->load->view('template/header',
$data);
        // $this->load-
>view('templates/sidebar', $data);
```

```php
        // $this->load-
>view('templates/topbar', $data);
        $this->load->view('gizi/lihatamb',
$data);
        $this->load->view('template/footer');
    }
    function hapus($id_kebutuhan_kalori)
    {
        $where = array('id_kebutuhan_kalori'
=> $id_kebutuhan_kalori);
        $this->hapus_model->hapus_data($where,
'tbl_kebutuhan_kalori');
        redirect('gizi/kebutuhangizi');
    }
    function delete($id_detail_kandungan)
    {
        $where = array('id_detail_kandungan'
=> $id_detail_kandungan);
        $this->hapus_model->hapus_data($where,
'tbl_detail_kebutuhan');
        redirect('gizi/detail');
    }
}
```

Controllers

`1.Auth.php`

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Auth extends CI_Controller
{
    public function __construct()
    {
```

```
        parent::__construct();
        $this->load-
>library('form_validation');
    }
    public function index()
    {
        if ($this->session->userdata('email'))
{
            redirect('user');
        }

        $this->form_validation-
>set_rules('email', 'Email',
'required|trim|valid_email');
        $this->form_validation-
>set_rules('password', 'Password',
'required|trim');

        if ($this->form_validation->run() ==
false) {
            $data['title'] = 'TKPI User
Login';
            $this->load-
>view('templates/auth_header', $data);
            $this->load->view('auth/login');
            $this->load-
>view('templates/auth_footer');
        } else {
            //validasi sukses
            $this->_login();
        }
    }
    private function _login()
    {
        $email = $this->input->post('email');
//ambil data email dari inputan form
```

```
        $password = $this->input-
>post('password'); //ambil data password dari
inputan form

        $user = $this->db->get_where('user',
['email' => $email])->row_array();
//mencocokan email dengan email yang ada di
database
        //jika usernya ada
        if ($user) {
            //jika usernya aktif
            if ($user['is_active'] == 1) {
                //cek password yang di input
dengan di database
                if (password_verify($password,
$user['password'])) {
                    $data = [
                        'email' =>
$user['email'],
                        'role_id' =>
$user['role_id']
                    ];
                    $this->session-
>set_userdata($data);
                    if ($user['role_id'] == 1)
{
                        redirect('admin');
                    } else {
                        redirect('user');
                    }
                } else {
                    $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">Wrong
password!</div>');
                    redirect('auth');
                }
            } else {
```

```
                $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">This email has not
been activeted!</div>');
                redirect('auth');
            }
        } else {
            $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">Email is not
registered!</div>');
            redirect('auth');
        }
    }

    public function registration()
    {
        if ($this->session->userdata('email'))
{
            redirect('user');
        }
        //rule atau aturan untuk mengisi form
registrasi
        //required = harus di isi trim = itu
menghilangkan spasi didepa/belakang
        $this->form_validation-
>set_rules('name', 'Name', 'required|trim');
        $this->form_validation-
>set_rules('email', 'Email',
'required|trim|valid_email|is_unique[user.emai
l]', [
            'is_unique' => 'This email has
already registered!'
            ]);
        $this->form_validation->set_rules(
            'password1',
            'Password',
```

```
'required|trim|min_length[3]|matches[password2
]',
            [
                'matches' => 'Password dont
match!',
                'min_length' => 'Password too
short!'
            ]
        );
        $this->form_validation-
>set_rules('password2', 'Password',
'required|trim|matches[password1]');
        if ($this->form_validation->run() ==
false) {
            $data['title'] = 'TKPI User
Registration';
            $this->load-
>view('templates/auth_header', $data);
            $this->load-
>view('auth/registration');
            $this->load-
>view('templates/auth_footer');
        } else {
            $data = [
                'name' =>
htmlspecialchars($this->input->post('name',
true)),
                'email' =>
htmlspecialchars($this->input->post('email',
true)),
                'image' => 'default.jpg',
                'password' =>
password_hash($this->input->post('password1'),
PASSWORD_DEFAULT),
                'role_id' => 2,
                'is_active' => 1,
                'date_created' => time()
```

```php
                ];
                $this->db->insert('user', $data);
                $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">Congratulation!
your account has been created. Please
login</div>');
                redirect('auth');
            }
        }

    public function logout()
    {
        $this->session-
>unset_userdata('email');
        $this->session-
>unset_userdata('role_id');

        $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">You have been
logged out!</div>');
        redirect('auth');
    }
    public function blocked()
    {
        $this->load->view('auth/blocked');
    }
}
```

2.Admin.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Admin extends CI_Controller
```

```php
{
    public function __construct()
    {
        parent::__construct();
        is_logged_in();
    }
    public function index()
    {
        $data['title'] = 'Dashboard';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
        $this->load->view('admin/index',
$data);
        $this->load->view('templates/footer');
    }

    public function role()
    {
        $data['title'] = 'Role';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //ambil data dari user_role
        $data['role'] = $this->db-
>get('user_role')->result_array();

        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
```

```php
        $this->load->view('templates/topbar',
$data);
        $this->load->view('admin/role',
$data);
        $this->load->view('templates/footer');
    }

    public function roleAccess($role_id)
    {
        $data['title'] = 'Role Access';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //ambil data dari user_role
        $data['role'] = $this->db-
>get_where('user_role', ['id' => $role_id])-
>row_array();

        $this->db->where('id !=', 1);
        $data['menu'] = $this->db-
>get('user_menu')->result_array();

        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
        $this->load->view('admin/role-access',
$data);
        $this->load->view('templates/footer');
    }

    public function changeAccess()
    {
        $menu_id = $this->input-
>post('menuId');
```

```php
        $role_id = $this->input-
>post('roleId');
        $data = [
            'role_id' => $role_id,
            'menu_id' => $menu_id
        ];

        $result = $this->db-
>get_where('user_access_menu', $data);

        if ($result->num_rows() < 1) {
            $this->db-
>insert('user_access_menu', $data);
        } else {
            $this->db-
>delete('user_access_menu', $data);
        }
        $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">Access
Changed!</div>');
    }
}
```

3.Gizi.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Gizi extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        is_logged_in();
        $this->load->model('hapus_model');
```

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```php
        $this->load-
>model('Kebutuhan_gizi_model');
    }
    function autocomplate_bahan()
    {
        autocomplate_json('tbl_kpi',
'nama_bahan');
    }

    function autocomplate()
    {
        $this->db->like('nama_bahan',
$_GET['term']);
        $this->db->select('nama_bahan');
        $products = $this->db->get('tbl_kpi')-
>result();
        foreach ($products as $product) {
            $return_arr[] = $product-
>nama_bahan;
        }
        echo json_encode($return_arr);
    }

    function autofill()
    {
        $menu = $_GET['menu'];
        $this->db->where('nama_bahan', $menu);
        $bahan = $this->db->get('tbl_kpi')-
>row_array();
        $data = array(
            'energi' => $bahan['energi'],
        );
        echo json_encode($data);
    }

    public function index()
    {
        $data['title'] = 'Gizi';
```

```
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
        $this->load->view('gizi/index',
$data);
        $this->load->view('templates/footer');
    }


    public function kebutuhangizi()
    {
        $data['title'] = 'Kebutuhan Gizi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //load model getSubMenu
        $this->load->model('Kebutuhan_model',
'gizi');
        //ambil data dari user_menu
        $data['kebutuhangizi'] = $this->gizi-
>getKebutuhan()->result_array();
        //kirim menu
        //$data['menu'] = $this->db-
>get('coba')->result_array();
        //rule inputan submenu
        $this->_rules();
        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('template/header', $data);
```

```php
            //$this->load-
>view('template/topbar', $data);
            $this->load-
>view('gizi/kebutuhangizi', $data);
            $this->load-
>view('template/footer');
            //$this->load-
>view('templates/header', $data);
            // $this->load-
>view('templates/sidebar', $data);
            // $this->load-
>view('templates/topbar', $data);
            // $this->load-
>view('gizi/kebutuhangizi', $data);
            //   $this->load-
>view('templates/footer');
        } else {
            //mendapakan nilai yang dikirim
            $berat_badan = (float) $this-
>input->post('berat_badan', TRUE);
            $tinggi_badan = (float) $this-
>input->post('tinggi_badan', TRUE);
            $umur = (float) $this->input-
>post('umur', TRUE);
            $jenis_kelamin =  $this->input-
>post('jenis_kelamin', TRUE);
            $faktor_aktivitas = $this->input-
>post('faktor_aktivitas', TRUE);

            //rumus-rumus
            //rumus indek masa tubuh
            $tbtb = ($tinggi_badan *
$tinggi_badan) / 10000;
            $imt =  $berat_badan /  $tbtb;

            //rumus berat badan ideal
            $bbi = ($tinggi_badan - 100) - 0.1
* ($tinggi_badan - 100);
```

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```
//rumus angka metabolisme body
if ($jenis_kelamin == "laki-laki")
{
        $amb = 66 + (13.7 *
$berat_badan) + (5 *  $tinggi_badan) - (6.8 *
$umur);
        } else {
           $amb = 655 + (9.6 *
$berat_badan) + (1.7 *  $tinggi_badan) - (4.7
*  $umur);
        }
        //rumus mendapatkan nilai faktor
aktifitas
        if ($faktor_aktivitas ==
"tidur/bedrest") {
           $fa = 1;
        } elseif ($faktor_aktivitas ==
"sangat ringan") {
           $fa = 1.3;
        } elseif ($faktor_aktivitas ==
"ringan") {
           $fa = 1.5;
        } elseif ($faktor_aktivitas ==
"sedang") {
           $fa = 2;
        } else {
           $fa = 2.5;
        }
        //rumus total dietary energy
        $tde = $amb * $fa;
        //menyimpan data
        $data = [
           'tanggal' => time(),
           'berat_badan' => $this->input-
>post('berat_badan', TRUE),
           'tinggi_badan' => $this-
>input->post('tinggi_badan', TRUE),
```
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```
                'umur' => $this->input-
>post('umur', TRUE),
                'jenis_kelamin' => $this-
>input->post('jenis_kelamin', TRUE),
                'faktor_aktivitas' => $this-
>input->post('faktor_aktivitas', TRUE),
                'imt' =>  $imt,
                'bbi' =>  $bbi,
                'amb' =>  $amb,
                'tde' => $tde,
                'email' => $this->input-
>post('email', TRUE)
            ];
            $this->db-
>insert('tbl_kebutuhan_kalori', $data);
            $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New need
added!</div>');
            redirect('gizi/kebutuhangizi');
        }
    }
    public function _rules()
    {
        $this->form_validation-
>set_rules('berat_badan', 'berat badan',
'trim|required');
        $this->form_validation-
>set_rules('tinggi_badan', 'tinggi badan',
'trim|required');
        $this->form_validation-
>set_rules('umur', 'umur', 'trim|required');
        $this->form_validation-
>set_rules('jenis_kelamin', 'jenis kelamin',
'trim|required');
        $this->form_validation-
>set_rules('faktor_aktivitas', 'faktor
aktivitas', 'trim|required');
```

```
        $this->form_validation-
>set_error_delimiters('<span class="text-
danger">', '</span>');
    }

    public function detail()
    {
        $id_kebutuhan_kalori = substr($this-
>uri->uri_string(3), 12);
        $data['title'] = 'Detail';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $sql_kebutuhan = "SELECT tanggal,
berat_badan, tinggi_badan, umur,
jenis_kelamin, tde, id_kebutuhan_kalori FROM
`tbl_kebutuhan_kalori` WHERE
id_kebutuhan_kalori='$id_kebutuhan_kalori'";
        $sql_kandungan = "SELECT
ta.kode_bahan,ta.nama_bahan,ta.jumlah_kandunga
n,ta.air,ta.energi,ta.protein,ta.lemak,ta.kh,t
a.serat,ta.abu,ta.kalsium,ta.fosfor,ta.besi,
ta.natrium, ta.kalium, ta.tembaga, ta.seng,
ta.retinol, ta.b_kar, ta.kar_total,
ta.thiamin, ta.riboflavin, ta.niasin,
ta.vit_c, tp.waktu_makan,tp.berat,
tp.id_detail_kandungan FROM
tbl_detail_kebutuhan as tp, tbl_kpi as ta
WHERE tp.kode_bahan=ta.kode_bahan and
tp.id_kebutuhan_kalori='$id_kebutuhan_kalori'"
;
        $data['kebutuhan'] =  $this->db-
>query($sql_kebutuhan)->row_array();
        $data['id_kebutuhan_kalori'] =
$id_kebutuhan_kalori;
        $data['kandungan'] =  $this->db-
>query($sql_kandungan)->result_array();
```

```
$this->load->view('template/header',
$data);
        //$this->load->view('template/topbar',
$data);
        $this->load->view('gizi/detail',
$data);
        $this->load->view('gizi/air', $data);
        $this->load->view('gizi/protein',
$data);
        $this->load->view('gizi/lemak',
$data);
        $this->load->view('gizi/kh', $data);
        $this->load->view('gizi/serat',
$data);
        $this->load->view('gizi/abu', $data);
        $this->load->view('gizi/kalsium',
$data);
        $this->load->view('gizi/fosfor',
$data);
        $this->load->view('gizi/besi', $data);
        $this->load->view('gizi/natrium',
$data);
        $this->load->view('gizi/kalium',
$data);
        $this->load->view('gizi/tembaga',
$data);
        $this->load->view('gizi/seng', $data);
        $this->load->view('gizi/retinol',
$data);
        $this->load->view('gizi/bkar', $data);
        $this->load->view('gizi/kartotal',
$data);
        $this->load->view('gizi/thiamin',
$data);
        $this->load->view('gizi/riboflavin',
$data);
        $this->load->view('gizi/niasin',
$data);
```

```php
        $this->load->view('gizi/vitc', $data);
        $this->load->view('template/footer');
    }
    public function tambahmenu()
    {
        $nama_bahan    = $this->input-
>post('menu');
        $kode_bahan    =
getFieldValue('tbl_kpi', 'kode_bahan',
'nama_bahan', $nama_bahan);
        $id_kebutuhan_kalori    = $this-
>input->post('id_kebutuhan_kalori');
        $berat         = (float) $this->input-
>post('berat');
        $data = array(
            'id_kebutuhan_kalori'       =>
$id_kebutuhan_kalori,
            'kode_bahan'   =>  $kode_bahan,
            'tanggal'         =>  time(),
            'waktu_makan' => $this->input-
>post('waktu_makan', TRUE),
            'berat'           =>  $berat
        );
        $this->db-
>insert('tbl_detail_kebutuhan', $data);
        $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New need
added!</div>');
        redirect('gizi/detail/' .
$id_kebutuhan_kalori);
    }

    public function lihatimt()
    {
        $data['title'] = 'Kebutuhan Gizi';
```

```
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $id_kebutuhan_kalori = substr($this-
>uri->uri_string(3), 14);
        $sql_kebutuhan = "SELECT tanggal, imt,
id_kebutuhan_kalori FROM
`tbl_kebutuhan_kalori` WHERE
id_kebutuhan_kalori='$id_kebutuhan_kalori'";
        $data['kebutuhan'] =  $this->db-
>query($sql_kebutuhan)->row_array();
        //load model getSubMen
        //kirim menu
        //$data['menu'] = $this->db-
>get('coba')->result_array();
        //rule inputan submenu
        $this->load->view('template/header',
$data);
        // $this->load-
>view('templates/sidebar', $data);
        // $this->load-
>view('templates/topbar', $data);
        $this->load->view('gizi/lihatimt',
$data);
        $this->load->view('template/footer');
    }
    public function lihatbbi()
    {
        $data['title'] = 'Kebutuhan Gizi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $id_kebutuhan_kalori = substr($this-
>uri->uri_string(3), 14);
        $sql_kebutuhan = "SELECT bbi,
berat_badan, tanggal, id_kebutuhan_kalori FROM
`tbl_kebutuhan_kalori` WHERE
id_kebutuhan_kalori='$id_kebutuhan_kalori'";
```

```
        $data['kebutuhan'] =  $this->db-
>query($sql_kebutuhan)->row_array();
        //load model getSubMen
        //kirim menu
        //$data['menu'] = $this->db-
>get('coba')->result_array();
        //rule inputan submenu

        $this->load->view('template/header',
$data);
        // $this->load-
>view('templates/sidebar', $data);
        // $this->load-
>view('templates/topbar', $data);
        $this->load->view('gizi/lihatbbi',
$data);
        $this->load->view('template/footer');
    }
    public function lihatamb()
    {
        $data['title'] = 'Kebutuhan Gizi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $id_kebutuhan_kalori = substr($this-
>uri->uri_string(3), 14);
        $sql_kebutuhan = "SELECT amb, tanggal,
id_kebutuhan_kalori FROM
`tbl_kebutuhan_kalori` WHERE
id_kebutuhan_kalori='$id_kebutuhan_kalori'";
        $data['kebutuhan'] =  $this->db-
>query($sql_kebutuhan)->row_array();
        //load model getSubMen
        //kirim menu
        //$data['menu'] = $this->db-
>get('coba')->result_array();
        //rule inputan submenu
```

```
        $this->load->view('template/header',
$data);
        // $this->load-
>view('templates/sidebar', $data);
        // $this->load-
>view('templates/topbar', $data);
        $this->load->view('gizi/lihatamb',
$data);
        $this->load->view('template/footer');
    }
    function hapus($id_kebutuhan_kalori)
    {
        $where = array('id_kebutuhan_kalori'
=> $id_kebutuhan_kalori);
        $this->hapus_model->hapus_data($where,
'tbl_kebutuhan_kalori');
        redirect('gizi/kebutuhangizi');
    }
    function delete($id_detail_kandungan)
    {
        $where = array('id_detail_kandungan'
=> $id_detail_kandungan);
        $this->hapus_model->hapus_data($where,
'tbl_detail_kebutuhan');
        redirect('gizi/detail');
    }
}
```

4.Menu.php

```
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Menu extends CI_Controller
{
    public function __construct()
```

```
    {
        parent::__construct();
        is_logged_in();
    }
    public function index()
    {
        $data['title'] = 'Menu Management';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //ambil data dari user_menu
        $data['menu'] = $this->db-
>get('user_menu')->result_array();

        //rule inputan
        $this->form_validation-
>set_rules('menu', 'Menu', 'required');

        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('templates/header', $data);
            $this->load-
>view('templates/sidebar', $data);
            $this->load-
>view('templates/topbar', $data);
            $this->load->view('menu/index',
$data);
            $this->load-
>view('templates/footer');
        } else {
            $this->db->insert('user_menu',
['menu' => $this->input->post('menu')]);
            $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New menu
added!</div>');
```

```
            redirect('menu');
        }
    }

    public function submenu()
    {
        $data['title'] = 'Submenu Management';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //load model getSubMenu
        $this->load->model('Menu_model',
'menu');
        //ambil data dari user_menu
        $data['subMenu'] = $this->menu-
>getSubMenu();
        //kirim menu
        $data['menu'] = $this->db-
>get('user_menu')->result_array();
        //rule inputan submenu
        $this->form_validation-
>set_rules('title', 'Title', 'required');
        $this->form_validation-
>set_rules('menu_id', 'Menu', 'required');
        $this->form_validation-
>set_rules('url', 'URL', 'required');
        $this->form_validation-
>set_rules('icon', 'icon', 'required');

        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('templates/header', $data);
            $this->load-
>view('templates/sidebar', $data);
            $this->load-
>view('templates/topbar', $data);
```

```
                $this->load->view('menu/submenu',
$data);
                $this->load-
>view('templates/footer');
        } else {
            $data = [
                'title' => $this->input-
>post('title'),
                'menu_id' => $this->input-
>post('menu_id'),
                'url' => $this->input-
>post('url'),
                'icon' => $this->input-
>post('icon'),
                'is_active' => $this->input-
>post('is_active')
            ];
            $this->db->insert('user_sub_menu',
$data);
            $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New submenu
added!</div>');
            redirect('menu/submenu');
        }
    }
}
```

5. Tkpi.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class Tkpi extends CI_Controller
{
    public function __construct()
```

```
    {
        parent::__construct();
        is_logged_in();
    }

    public function index()
    {
        $data['title'] = 'Tkpi';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->load->view('templates/header',
$data);
        $this->load->view('templates/sidebar',
$data);
        $this->load->view('templates/topbar',
$data);
        $this->load->view('tkpi/index',
$data);
        $this->load->view('templates/footer');
    }


    public function komposisipangan()
    {
        $data['title'] = 'Komposisi Pangan';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();

        //load model getSubMenu
        //$this->load->model('Menu_model',
'menu');
        //ambil data dari user_menu
        //$data['subMenu'] = $this->menu-
>getSubMenu();
        //kirim menu
```

```
        $data['komposisipangan'] = $this->db-
>get('tbl_kpi')->result_array();
        //rule inputan submenu
        $this->form_validation-
>set_rules('title', 'Title', 'required');
        $this->form_validation-
>set_rules('menu_id', 'Menu', 'required');
        $this->form_validation-
>set_rules('url', 'URL', 'required');
        $this->form_validation-
>set_rules('icon', 'icon', 'required');


        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('templates/header', $data);
            $this->load-
>view('templates/sidebar', $data);
            $this->load-
>view('templates/topbar', $data);
            $this->load-
>view('tkpi/komposisipangan', $data);
            $this->load-
>view('templates/footer');
        } else {
            //menyimpan data
            $data = [
                'title' => $this->input-
>post('title'),
                'menu_id' => $this->input-
>post('menu_id'),
                'url' => $this->input-
>post('url'),
                'icon' => $this->input-
>post('icon'),
                'is_active' => $this->input-
>post('is_active')
```

```
            ];
            $this->db->insert('user_sub_menu',
$data);
            $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">New submenu
added!</div>');
            redirect('tkpi/komposisipangan');
        }
    }
}
```

6.User.php

```php
<?php
defined('BASEPATH') or exit('No direct script
access allowed');

class User extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        is_logged_in();
    }

    public function index()
    {
        $data['title'] = 'My Profile';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        //$this->load-
>view('templates/header', $data);
        //$this->load-
>view('templates/sidebar', $data);
```

```
        //$this->load-
>view('templates/topbar', $data);
        // $this->load->view('user/index',
$data);
        //$this->load-
>view('templates/footer');

        $this->load->view('template/header',
$data);
        $this->load->view('template/topbar',
$data);
        // $this->load->view('user/index',
$data);
        $this->load->view('template/footer');
    }

    public function edit()
    {
        $data['title'] = 'Edit Profile';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->form_validation-
>set_rules('name', 'Full Name',
'required|trim');
        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('template/header', $data);
            //    $this->load-
>view('templates/sidebar', $data);
            //   $this->load-
>view('templates/topbar', $data);
            $this->load->view('user/edit',
$data);
            $this->load-
>view('template/footer');
        } else {
```

```
            $name = $this->input-
>post('name');
            $email = $this->input-
>post('email');
            // cek jika ada gambar yang akan
diupload
            $upload_image =
$_FILES['image']['name'];
            if ($upload_image) {
                $config['allowed_types'] =
'gif|jpg|png';
                $config['max_size']     =
'2048';
                $config['upload_path'] =
'./assets/img/profile/';
                $this->load->library('upload',
$config);
                if ($this->upload-
>do_upload('image')) {
                    $old_image =
$data['user']['image'];
                    if ($old_image !=
'default.jpg') {
                        unlink(FCPATH .
'assets/img/profile/' . $old_image);
                    }
                    $new_image = $this-
>upload->data('file_name');
                    $this->db->set('image',
$new_image);
                } else {
                    echo $this->upload-
>dispay_errors();
                }
            }
            $this->db->set('name', $name);
            $this->db->where('email', $email);
            $this->db->update('user');
```

```
            $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">Your profile has
been updated!</div>');
            redirect('user');
        }
    }

    public function changePassword()
    {
        $data['title'] = 'Change Password';
        $data['user'] = $this->db-
>get_where('user', ['email' => $this->session-
>userdata('email')])->row_array();
        $this->form_validation-
>set_rules('current_password', 'Current
Password', 'required|trim');
        $this->form_validation-
>set_rules('new_password1', 'New Password',
'required|trim|min_length[3]|matches[new_passw
ord2]');
        $this->form_validation-
>set_rules('new_password2', 'Confirm New
Password',
'required|trim|min_length[3]|matches[new_passw
ord1]');
        if ($this->form_validation->run() ==
false) {
            $this->load-
>view('template/header', $data);
            //$this->load-
>view('templates/sidebar', $data);
            //  $this->load-
>view('templates/topbar', $data);
            $this->load-
>view('user/changepassword', $data);
            $this->load-
>view('template/footer');
```

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```
        } else {
            $current_password = $this->input-
>post('current_password');
            $new_password = $this->input-
>post('new_password1');
            if
(!password_verify($current_password,
$data['user']['password'])) {
                $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">Wrong current
password!</div>');

redirect('user/changepassword');
            } else {
                if ($current_password ==
$new_password) {
                    $this->session-
>set_flashdata('message', '<div class="alert
alert-danger" role="alert">New password cannot
be the same as current password!</div>');

redirect('user/changepassword');
                } else {
                    // password sudah ok
                    $password_hash =
password_hash($new_password,
PASSWORD_DEFAULT);
                    $this->db->set('password',
$password_hash);
                    $this->db->where('email',
$this->session->userdata('email'));
                    $this->db->update('user');
                    $this->session-
>set_flashdata('message', '<div class="alert
alert-success" role="alert">Password
changed!</div>');
```

```php
redirect('user/changepassword');
                    }
                }
            }
        }
}
```

Android

1.Mainactivity.php

```
package com.example.aplikasitkpi;

import
androidx.appcompat.app.AppCompatActivity;


import android.os.Bundle;
import android.webkit.WebSettings;
import android.webkit.WebView;
import android.webkit.WebViewClient;

public class MainActivity extends
AppCompatActivity {

    WebView webviewku;
    WebSettings websettingku;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

        webviewku = (WebView)
findViewById(R.id.webview1);
```

```
webviewku.getSettings().setJavaScriptEnabled(t
rue);

        webviewku.setWebViewClient(new
WebViewClient());
        webviewku.loadUrl();
    }
}
```

2.Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/
res/android"

xmlns:app="http://schemas.android.com/apk/res-
auto"

xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="@color/colorCloud"
    tools:context=".MainActivity">

<WebView
    android:id="@+id/webview1"
    android:layout_height="fill_parent"
    android:layout_width="fill_parent">

</WebView>

</RelativeLayout>
```