Modul 8

Menggunakan session Class
&
Menambah fungsi login/logout

Buat tabel 'users' pada database 'perpus'

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	id 🔑	tinyint(4)			No	None	AUTO_INCREMENT
2	username	varchar(10)	latin1_swedish_ci		No	None	
3	password	varchar(100)	latin1_swedish_ci		No	None	

Tambah minimal 1 (satu) user:

Column	Type	Function	Null	Value
id	tinyint(4)	▼		
username	varchar(10)	▼		admin
password	varchar(100)	MD5 ▼		admin
				Go

Default controller aplikasi perpus

Pastikan default controller pada 'routes.php' di folder application/config seperti berikut:

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

Load class session

- Lakukan load library session dengan memodifikasi file 'autoload.php' di folder application/config sbb:

```
|
|    $autoload['libraries'] = array('user_agent' => 'ua');
*/
$autoload['libraries'] = array('database','session');
```

Set Encryption Key

Lakukan set Encryption Key pada file 'config.php' di folder application/config, atau bisa menggunakan encryption key generator di situs http://randomkeygen.com/ lalu copy salah satu key pada tabel CodeIgniter Encryption Keys,seperti berikut:

```
|
*/
$config['encryption_key'] = 'viN66QDe8qNe05c30PNin6A58ghBjMK5';
```

Set konfigurasi session

Lakukan set konfigurasi session pada file 'config.php' di folder application/config sbb:

```php
$config['sess_driver'] = 'files';
$config['sess_cookie_name'] = 'my_session';
$config['sess_expiration'] = 7200;
$config['sess_save_path'] = APPPATH.'ci_sessions/';
$config['sess_match_ip'] = FALSE;
$config['sess_time_to_update'] = 300;
$config['sess_regenerate_destroy'] = FALSE;
```

Buat folder baru 'ci_sessions' di folder 'application' Codeigniter untuk menyimpan file session 'my_session' :

Name

cache

ci_sessions

config

controllers
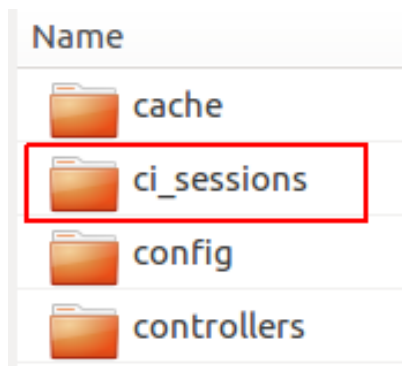
Buat model 'User_m.php'

- Buat file model baru 'User_m.php'
- Siapkan fungsi-fungsi berikut:
  - function cek_user($username)
  - function login($username, $password)

Model 'User_m.php'
function cek_user($username)

```php
<?php
Class User_m extends CI_Model
{
    function cek_user($username)
    {
        $this->db->select('username');
        $this->db->from('users');
        $this->db->where('username', $username);
        $this->db->limit(1);
        $query = $this->db->get();

        if($query->num_rows() == 1) {
            return true;
        } else {
            return false;
        }
    }
}
```

Model 'User_m.php'
function login($username, $password)

```php
function login($username, $password)
{
    $this->db->select('id, username, password');
    $this->db->from('users');
    $this->db->where('username', $username);
    $this->db->where('password', MD5($password));
    $this->db->limit(1);
    $query = $this->db->get();

    if($query->num_rows() == 1) {
        return $query->result();
    } else {
        return false;
    }
}
}
?>
```

Lanjutan ......

Buat view 'login_v.php'

```php
<?php
    echo "<h1>Silahkan Login</h1>";
    echo validation_errors();
    echo form_open('perpus/login');
    $data=array(
            'name'  => 'username',
            'type'  => 'text',
            'size'  => '20',
            'value' => set_value('username')
    );
    echo form_label('Username: ', 'username');
    echo form_input($data);
    echo "<br/>";
    $data=array(
            'name'  => 'password',
            'type'  => 'password',
            'size'  => '20',
            'value' => set_value('password')
    );
    echo form_label('Password: ', 'password');
    echo form_input($data);
    echo "<br/>";
    echo form_submit('btn_simpan','Login');
    echo form_close();
?>
```

Tampilan view login_v.php

Silahkan Login

Username: [_____]

Password: [_____]

[Login]

Tampilan view login_v.php menggunakan validasi form

Silahkan Login

Username harus diisi.

Password harus diisi.

Username: [   ]
Password: [   ]
[Login]

Silahkan Login

Username tidak ada di sistem

Password harus diisi.

Username: [user   ]
Password: [   ]
[Login]

Silahkan Login

Password salah

Username: [admin   ]
Password: [••••   ]
[Login]

Modifikasi view 'perpus_v.php' tambah hyperlink 'logout' & tampilan 'username'

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Aplikasi Perpustakaan</title>
5  </head>
6  <body>
7      <h1>Selamat datang <?php echo $username; ?></h1>
8      <h2>Aplikasi Perpustakaan FTIK USM</h2>
9      <b>Pilihan menu :</b>
10     <ol>
11         <li><a href="<?=base_url('index.php/buku');?>">Kelola data buku</a></li>
12         <li><a href="<?=base_url('index.php/anggota');?>">Kelola data anggota</a></li>
13         <li><a href="<?=base_url('index.php/pinjam'); ?>">Transaksi Pinjam</a></li>
14     </ol>
15     <a href="<?=base_url('index.php/perpus/logout'); ?>">Logout</a>
16  </body>
17  </html>
```

Tampilan view perpus_v.php

Selamat datang admin

Aplikasi Perpustakaan FTIK USM

Pilihan menu :

1. Kelola data buku
2. Kelola data anggota
3. Transaksi Pinjam

Logout

Modifikasi controller 'Perpus.php' pada function _construct()

```php
function __construct()
{
    parent::_construct();
    $this->load->helper('url');
    $this->load->helper('form');

    // -- load lirary Form validation
    $this->load->library('form_validation');
    // -- load model user
    $this->load->model('user_m');
}
```

Modifikasi controller 'Perpus.php' pada function index()

```php
public function index()
{
    //$this->load->view('perpus_v');
    if($this->session->userdata('logged_in')) {
        $session_data = $this->session->userdata('logged_in');
        $data['username'] = $session_data['username'];
        $this->load->view('perpus_v', $data);
    } else {
        //jika tidak ada session, loncat ke halaman login
        $this->load->view('login_v');
    }

}
```

Modifikasi controller 'Perpus.php' tambah function login()

```php
public function login()
{
    $this->form_validation->set_rules('username', 'Username', 'trim|required|callback_check_user');
    $this->form_validation->set_rules('password', 'Password', 'trim|required|callback_check_login');
    //--------------
    $this->form_validation->set_message('required', '{field} harus diisi.');
    $this->form_validation->set_error_delimiters('<div style="color:red;">', '</div><br/>');

    if($this->form_validation->run() == FALSE) {
        //Jika login gagal, user dibawa ke form login
        $this->load->view('login_v');
    } else {
        // lompat ke beranda perpus
        redirect('perpus', 'refresh');
    }
}
```

Modifikasi controller 'Perpus.php' tambah function logout()

```php
function logout()
{
    $this->session->unset_userdata('logged_in');
    session_destroy();
    redirect('perpus', 'refresh');
}
```

Modifikasi controller 'Perpus.php' tambah function check_user()

```php
public function check_user($username)
{
    if(empty($username)){
        $this->form_validation->set_message('check_user', 'Username harus diisi!');
    }else{
        $result = $this->user_m->cek_user($username);
        if($result){
            return $result;
        }else{
            $this->form_validation->set_message('check_user', 'Username tidak ada di sistem');
            return false;
        }
    }
}
```

Modifikasi controller 'Perpus.php' tambah function check_login()

```php
public function check_login($password)
{
    if(empty($password)){
        $this->form_validation->set_message('check_login', 'Password harus diisi!');
    }else{
        // validasi form sukses, cek di database
        $username = $this->input->post('username');
        //query ke database
        $result = $this->user_m->login($username, $password);

        if($result) {
            $sess_array = array();
            foreach($result as $row) {
                $sess_array = array(
                    'id' => $row->id,
                    'username' => $row->username
                );
                $this->session->set_userdata('logged_in', $sess_array);
            }
            return true;
        } else {
            $this->form_validation->set_message('check_login', 'Password salah');
            return false;
        }
    }
}
```

Buat helper 'login_helper.php'

- Buat file helper baru dengan nama 'login_helper.php' dan disimpan pada folder 'application/helper', sbb

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

if ( ! function_exists('is_logged_in'))
{
    function is_logged_in() {
        // ambil instance Codeigniter yang ada
        $CI =& get_instance();

        $user = $CI->session->userdata('logged_in');
        if (!isset($user)) { return false; } else { return true; }
    }
}
```

Set Autoload helper 'login'

- Modifikasi file 'autoload.php' pada folder 'application/config' untuk melakukan load helper 'login_helper.php' secara otomatis, sbb:

```
/*
|	--------------------------------------------------------------
|	Auto-load Helper Files
|	--------------------------------------------------------------
|	Prototype:
|
|		$autoload['helper'] = array('url', 'file');
*/
$autoload['helper'] = array('login');
```

Modifikasi tiap file controller

- Tambahkan skrip berikut pada baris akhir function __construct() pada tiap-tiap controller pada aplikasi perpus, kecuali controller 'perpus.php'.

```
// -- cek session login
if(!is_logged_in()){
    redirect('perpus','refresh');
}
```

Contoh pada controller 'Anggota.php'

```php
function __construct()
{
    parent::__construct();
    $this->load->helper('form');
    $this->load->helper('url'); # <--- tambahan
    $this->data['opt_progdi'] = array(''=>'-Pilih salah satu -',
                                      'TI'=>'Teknik Informatika',
                                      'SI'=>'Sistem Informasi',
                                      'IK'=>'Ilmu Komunikasi');

    $this->load->model('anggota m'); # <--- tambahan
    // -- cek session login
    if(!is_logged_in()){
        redirect('perpus','refresh');
    }
}
```

Uji coba login

- Silahkan akses ke alamat:

http://localhost/perpus/

-- atau –

http://localhost/CI