TUTORIAL REPORTING TO EXCELL

Menggunakan CodeIGNITER & BOOTSTRAP

Di PT. UJUNGBERUNG

Dosen :

Eko Budi Setiawan, S.Kom., M.T.

PROGRAM STUDI TEKNIK INFORMATIKA

FAKULAS TEKNIK DAN ILMU KOMPUTER

UNIVERSITAS KOMPUTER INDONESIA

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DAFTAR SCRIPT

DAFTAR GAMBAR

DAFTAR ISI

1. Persiapan Alat Pengembangan

Berikut merupakan alat-alat yang digunakan untuk mengembangkan aplikasi sistem informasi produksi di PT. Ujung Berung.

1. Bahasa pemrograman: PHP 7.1.32

2. Web Framework: CodeIgniter 3.1.11

3. HTML, CSS, and Javascript Framework: Bootstrap 3.3.4 dan jQuery 1.11.0.

4. Font Script: Ionicons dan Font Awesome

5. Web Server: Apache 2.4.41

6. Database Server: MySQL

7. PHP Library : PHPExcel 1.8.0

1.1 Instalasi CodeIgniter

1. Download CodeIgniter 3.1.11 dari http://www.codeigniter.com/download.

2. Ekstrak file CodeIgniter-3.1.11.zip pada direktori web server Anda (C:\xampp\htdocs\)

3. Masuk ke direktori web server, kemudian ubah nama folder CodeIgniter-3.1.11 menjadi nama aplikasi Anda, sebagai contoh saya menggunakan nama "ujungberung".

4. Jalankan web server dan database server Anda (saya menggunakan Apache MySQL).

5. Buka web browser Anda dan arahkan pada alamat http://localhost/ujungberung.

6. Jika berhasil, Anda akan melihat halaman web seperti gambar 1 berikut:
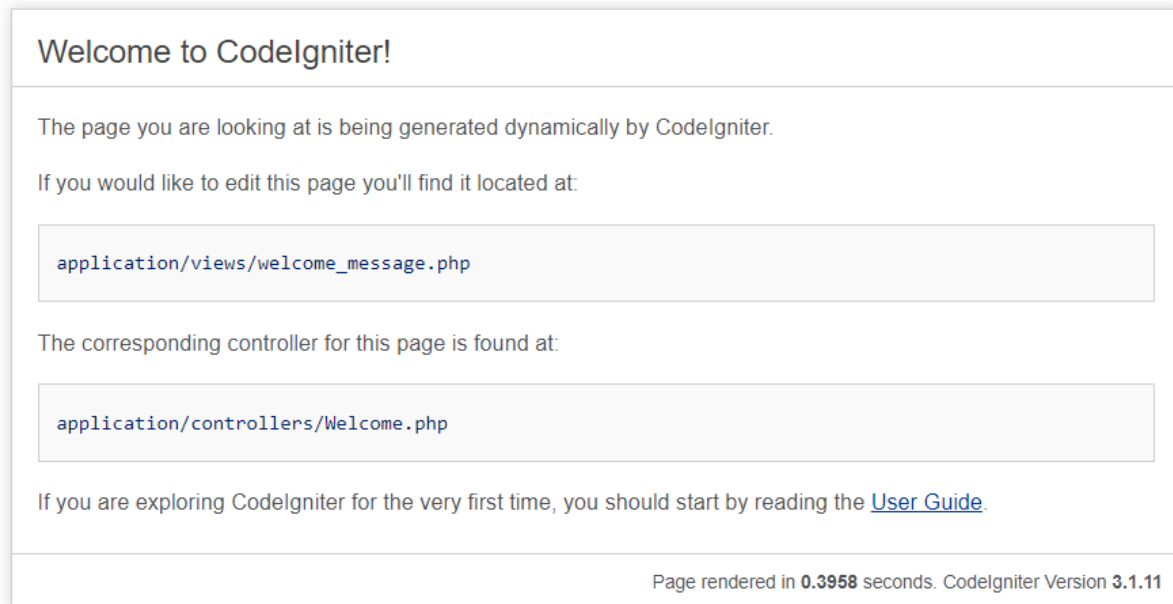
Gambar 1. Halaman awal Code Igniter

Sampai tahap ini, Anda telah berhasil melakukan instalasi CodeIgniter pada web server lokal. Sekarang Anda dapat mulai membangun *web application* menggunakan framework CodeIgniter.

1.2   Membuat file .htaccess

Buka notepad dan simpan dengan extension **.htaccess.** Apabila kesulitan membuat file extension .htaccess di notepad, sewaktu menyimpan pilih save as type all files (*.) kemudian isi nama file dengan **.htaccess.**   Isi file dengan script 1 berikut :

Script 1. .htaccess

```
RewriteEngine on
RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteRule .* index.php/$0 [PT,L]
```

1.3   Instalasi Bootstrap dan jQuery

1. Download Bootstrap dari http://getbootstrap.com.

2. Ekstrak pada direktori aplikasi Anda (C:\xampp\htdocs\ujungberung).

3. Sekarang direktori aplikasi Anda akan memiliki folder **css/**, **fonts/**, dan **js/**.

4. Download jQuery dari http://jquery.com/download/.

5. Simpan file jQuery pada direktori **js/.**

2

6. Bootstrap dan jQuery siap untuk digunakan pada aplikasi.

7. File **AdminLTE.css** sudah disertakan di modul ini. Copy kedalam folder css.

1.4 Instalasi Ionicons dan Font Awesome

1. Download Ionicons dari http://ionicons.com/ dan font awesome dari http://fortawesome.github.io/Font-Awesome/.

2. Simpan semua font ionicons dan font awesome pada direktori **fonts/**.

3. Simpan ionicons.css dan font-awesome.css pada direktori **css/**.

1.5 Instalasi PHPExcel

PHPExcel adalah library PHP yang digunakan untuk mengekspor data pada aplikasi menjadi sebuah file. Dalam kasus ini, kita akan mengekspor data ke dalam sebuah file berekstensi *.xlsx. Berikut merupakan cara instalasi library PHPExcel pada CodeIgniter:

1. Download PHPExcel 1.8.0 dari https://github.com/PHPOffice/PHPExcel.

2. Ekstrak dan simpan semua isi folder classes pada direktori *application/libraries.*

3. Untuk memanggil library-library PHPExcel dapat menggunakan script 2 berikut.

Namun untuk tahapan dibawah ini tidak perlu dilakukan terlebih dahulu

Script 2. memanggil library PHPExcel

```php
<?php
$this->load->library('PHPExcel');
$this->load->library('PHPExcel/IOFactory');
?>
```

2. Membuat File CSS dan Javascript

Agar kita lebih mudah saat memanggil semua file css dan javascript pada suatu halaman, maka kita akan membuat dua buah file khusus untuk memanggil css seperti pada script 3 dan javascript seperti pada script 4 dibawah.

1. Buat sebuah direktori dengan nama **inc** pada *application/views/.*

2. Buat sebuah file dengan nama **head.php** di *application/views/inc/*

Script 3. head.php

```html
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">

    <title>PT. Ujung Berung </title>

    <meta content='width=device-width, initial-scale=1, maximum-scale=1,
```

```
user-scalable=no' name='viewport'>
    <!-- bootstrap 3.0.2 -->
    <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css" />
    <!-- font Awesome -->
    <link href="css/font-awesome.min.css" rel="stylesheet" type="text/css"
/>
    <!-- Ionicons -->
    <link href="css/ionicons.min.css" rel="stylesheet" type="text/css" />

    <!-- Theme style -->
    <link href="css/AdminLTE.css" rel="stylesheet" type="text/css" />


  </head>

  <body>
  </body>
</html>
```

3. Buat sebuah file dengan nama **jq.php** di **application/views/inc/**

Script 4. jq.php

```
<!DOCTYPE HTML>
<html>

  <head></head>

  <body>
    <!-- jQuery -->
    <script src="js/jquery.min.js" type="text/javascript"></script>
    <!-- jQuery UI-->
    <script src="js/jquery-ui.min.js" type="text/javascript"></script>
    <!-- Bootstrap -->
    <script src="js/bootstrap.min.js" type="text/javascript"></script>
  </body>
</html>
```

3. Membuat Autentifikasi User

Sebelum membuat tampilan form login dan membuatnya bekerja, kita perlu untuk membuat sebuah tabel **user** untuk menyimpan data user yang memiliki akses terhadap aplikasi. Namun, untuk melakukan hal tersebut kita perlu membuat database terlebih dahulu. Berikut merupakan langkah-langkah untuk membuat database dan sebuah tabel dengan nama user.

Untuk mempercepat, silahkan di impor saja database ujungberung_db dari sql yang telah disediakan.

1. Buat sebuah database dengan nama ujungberung_db.
2. Buat sebuah tabel dengan nama user.

Field	Tipe data	Constraint
user_id	Int(2)	PRIMARY KEY
user_nama	Varchar(30)	NOT NULL
user_username	Varchar(15)	NOT NULL, UNIQUE
user_password	Varchar(100)	NOT NULL
user_alamat	Varchar(100)	-
user_kota	Varchar(20)	-
user_kodepos	Varchar(6)	-
user_telepon	Varchar(15)	-
user_email	Varchar(20)	-
user_level	Int(2)	NOT NULL
user_role	Varchar(25)	-

Masukkan beberapa data user ke tabel user. Setelah itu buat sebuah model pada *application/models* beri nama **usermodel.php** dengan script seperti script 5 berikut:

Script 5. usermodel.php

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

class Usermodel extends CI_Model
{
   public function get_menu_for_level($user_level)
   {
     $this->db->from('menu');
     $this->db->like('menu_allowed','+'.$user_level.'+');
     $result = $this->db->get();
     return $result;
   }

     function get_array_menu($id)
     {
        $this->db->select('menu_allowed');
        $this->db->from('menu');
        $this->db->where('menu_id',$id);
        $data = $this->db->get();
        if($data->num_rows() > 0)
        {
           $row = $data->row();
           $level = $row->menu_allowed;
           $arr = explode('+',$level);
           return $arr;
        }
```

```
        else
        {
            die();
        }
    }

    function select_all($id_user)
    {
        $this->db->select('*');
        $this->db->from('user');
        $this->db->where('user_id',$id_user);
        $result = $this->db->get();
        return $result;
    }
}
```

Seting konfigurasi database.php di **application/config/database.php** menjadi seperti script 6 berikut:

Script 6. database.php

```
$active_group = 'default';
$active_record = TRUE;

$db['default']['hostname'] = 'localhost';
$db['default']['username'] = 'root';
$db['default']['password'] = '';
$db['default']['database'] = 'ujungberung_db';
$db['default']['dbdriver'] = 'mysqli';
$db['default']['dbprefix'] = '';
$db['default']['pconnect'] = TRUE;
$db['default']['db_debug'] = TRUE;
$db['default']['cache_on'] = FALSE;
$db['default']['cachedir'] = '';
$db['default']['char_set'] = 'utf8';
$db['default']['dbcollat'] = 'utf8_general_ci';
$db['default']['swap_pre'] = '';
$db['default']['autoinit'] = TRUE;
$db['default']['stricton'] = FALSE;
```

Kemudian buat sebuah *view* pada *application/views* dengan nama **login_form.php** menggunakan sintaks seperti script 7 berikut:

Script 7. login_form.php

```
<!DOCTYPE html>
<html>
 <head>
    <title>PT. Ujung Berung | Login</title>

    <!-- Login CSS -->
    <link rel="stylesheet" type="text/css" href="css/login.css">
    <!-- Load CSS-->
    <?php include 'inc/head.php'; ?>
 </head>

 <body>
```

```
    <div class="container">
      <div id="form-middle">
        <form method="POST" class="form-signin" action="<?php echo
site_url('login'); ?>">
          <center>
            <h2 class="form-signin-heading">PT. Ujung Berung</h2>
            <?php
              // untuk menampilkan informasi login
              if(isset($login_info))
              {
                echo "<font color='#ff0000';>";
                echo $login_info;
                echo '</font>';
              }
            ?>
          </center>
          <br>
          <label for="username" class="sr-only">Username</label>
          <input type="text" name="username" id="username" class="form-
control" placeholder="Username" required autofocus>
          <label for="password" class="sr-only">Password</label>
          <input type="password" name="password" id="password"
class="form-control" placeholder="Password" required>
          <button class="btn btn-lg btn-primary btn-block"
type="submit">Sign in</button>
        </form>
      </div>
    </div> <!-- /container -->

    <!-- Load javascript-->
    <?php include 'inc/jq.php'; ?>

  </body>
</html>
```

Pada script di atas kita memanggil sebuah file login.css yang belum kita buat. Oleh karena itu, buat sebuah file dengan nama **login.css** dan simpan pada direktori **ujungberung/css/.** Gunakan sintaks seperti script 8 berikut:

Script 8. login.css

```
body {
  padding-top: 40px;
  padding-bottom: 40px;
  background-color: #eee;
}

#form-middle{
  position: fixed;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
}

.form-signin {
  max-width: 330px;
  padding: 15px;
```

```css
  margin: 0 auto;
}
.form-signin .form-signin-heading,
.form-signin .checkbox {
  margin-bottom: 10px;
}
.form-signin .checkbox {
  font-weight: normal;
}
.form-signin .form-control {
  position: relative;
  height: auto;
  -webkit-box-sizing: border-box;
     -moz-box-sizing: border-box;
          box-sizing: border-box;
  padding: 10px;
  font-size: 16px;
}
.form-signin .form-control:focus {
  z-index: 2;
}
.form-signin input[type="email"] {
  margin-bottom: -1px;
  border-bottom-right-radius: 0;
  border-bottom-left-radius: 0;
}
.form-signin input[type="password"] {
  margin-bottom: 10px;
  border-top-left-radius: 0;
  border-top-right-radius: 0;
}
```

Selanjutnya buat sebuah *library* untuk autentikasi user pada ***application/libraries*** dengan nama **auth.php**. Gunakan sintaks seperti script 9 berikut:

Script 9. auth.php

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


class Auth{

   var $CI = NULL;

   function __construct()
   {
      // get CI's object
      $this->CI =& get_instance();
   }

   // untuk validasi login
   function do_login($username,$password)
   {
      // cek di database, ada ga?
      $this->CI->db->from('user');
      $this->CI->db->where('user_username',$username);
```

```php
        $this->CI->db-
>where('user_password=MD5("'.$password.'")','',false);
        $result = $this->CI->db->get();
        if($result->num_rows() == 0)
        {
            // username dan password tsb tidak ada
            return false;
        }
        else
        {
            // ada, maka ambil informasi dari database
            $userdata = $result->row();
            $session_data = array(
                'user_id'    => $userdata->user_id,
                'nama'       => $userdata->user_nama,
                'alamat'     => $userdata->user_alamat,
                'kota'       => $userdata->user_kota,
                'kodepos'    => $userdata->user_kodepos,
                'telepon'    => $userdata->user_telepon,
                'email'      => $userdata->user_email,
                'username'   => $userdata->user_username,
                'role'       => $userdata->user_role,
                'level'      => $userdata->user_level
            );
            // buat session
            $this->CI->session->set_userdata($session_data);
            return true;
        }
    }

    // untuk mengecek apakah user sudah login/belum
    function is_logged_in()
    {
        if($this->CI->session->userdata('user_id') == '')
        {
            return false;
        }
        return true;
    }

    // untuk validasi di setiap halaman yang mengharuskan authentikasi
    function restrict()
    {
        if($this->is_logged_in() == false)
        {
            redirect('home');
        }
    }

    // untuk mengecek menu
    function cek_menu($idmenu)
    {
        $this->CI->load->model('usermodel');
        $status_user = $this->CI->session->userdata('level');
        $allowed_level = $this->CI->usermodel->get_array_menu($idmenu);
        if(in_array($status_user,$allowed_level) == false)
        {
            die("Maaf, Anda tidak berhak untuk mengakses halaman ini.");

        }
    }
```

```
    // untuk logout
    function do_logout()
    {
        $this->CI->session->sess_destroy();
    }
}
```

Kemudian buat sebuah controller pada *application/controllers* dengan nama **home.php**.
Gunakan sintaks seperti script 10 berikut:

Script 10. home.php

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

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

    // Default controller
    public function index()
    {
        // Apakah user sudah login?
        if($this->auth->is_logged_in() == false)
        {
            // Jika belum arahkan ke form login.
            $this->signin();
        }
        else
        {
            // Jika sudah, tampilkan halaman web sesuai hak akses.

            $this->menu->tampil_sidebar();

            // Untuk kebutuhan widget di dashboard
            $this->load->model('usermodel');
            $data['user1'] = $this->usermodel->select_all(1);
            $data['user2'] = $this->usermodel->select_all(2);

            $this->load->view('main_page', $data);

        }
    }

    public function signin()
    {
        $this->load->view('login_form');
    }

    public function login()
    {
            $username = $this->input->post('username');
            $password = $this->input->post('password');
            $success = $this->auth->do_login($username,$password);
```

```
        if($success)
        {
            // lemparkan ke halaman index user
            redirect(site_url('dashboard'));
        }
        else
        {
            $data['login_info'] = "Username atau password salah. Silahkan
masukkan kombinasi yang benar!";
            $this->load->view('login_form',$data);
        }

    }

    function logout()
    {
        if($this->auth->is_logged_in() == true)
        {
            // jika dia memang sudah login, destroy session
            $this->auth->do_logout();
        }
        // larikan ke halaman utama
        redirect('login');
    }
}
```

Agar saat aplikasi pertama kali dijalankan langsung menuju ke halaman login, maka tambahkan routing pada *application/config/routes.php*. Gunakan sintaks seperti script 11 berikut:

Script 11. routes.php

```
<?php  if ( ! defined('BASEPATH')) exit('No direct script access
allowed');
$route['default_controller'] = "home";
$route['login'] = 'home/login';
$route['login_failure'] = 'home/login';
$route['dashboard'] = 'home';
$route['item'] = 'newitem';
$route['model'] = 'stock';
$route['proses'] = 'mesin';
$route['monitoring'] = 'monitoring';
$route['report'] = 'report';
$route['404_override'] = 'MY_Exceptions/show_404';/* End of file
routes.php */
/* Location: ./application/config/routes.php */
```

Buka *application/config/autoload.php*

Ganti isian dibawah ini :

Script 12. autoload.php

```
$autoload['libraries'] =
```

11

```
array('database','pagination','auth','session','template','menu');
$autoload['helper'] = array('url','form');
```

Buat **menu.php** di **application/libraries/menu.php** dengan sintaks seperti script 13 berikut:

Script 13. menu.php

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


class Menu{

    var $CI = NULL;

    function __construct()
    {
        // get CI's object
        $this->CI =& get_instance();
    }

    function tampil_sidebar()
    {
        // load model 'usermodel'
        $this->CI->load->model('usermodel');
        // level untuk user ini
        $level = $this->CI->session->userdata('level');
        // ambil menu dari database sesuai dengan level
        $data['menu'] = $this->CI->usermodel->get_menu_for_level($level);

        $data['level'] = $this->CI->session->userdata('level');

        // tampilkan halaman dashboard dengan data menu
        $this->CI->load->view('sidebar-nav', $data);

    }


}
```

Buat **template.php** di **application/libraries/template.php** dengan sintaks seperti script 14 berikut:

Script 14. template.php

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

/**
```

```
 * CODEIGNITER template library
 *
 * @author  Jérôme Jaglale
 * @url     http://maestric.com/doc/php/codeigniter_template
 */


class Template
{
      var $template_data = array();

      function set($name, $value)
      {
          $this->template_data[$name] = $value;
      }


      function load($template = '', $view = '' , $view_data = array(),
$return = FALSE)
      {
          $this->CI =& get_instance();
          $this->set('contents', $this->CI->load->view($view, $view_data,
TRUE));
          return $this->CI->load->view($template, $this->template_data,
$return);
      }
}


/* End of file Template.php */
/* Location: ./application/libraries/Template.php */
```

Buka **application/config/config.php**

Kosongkan index_page. Kemudian isi key untuk enkripsi, isi dengan nilai angka bebas atau seperti script 15 berikut:

Script 15. config.php

```
$config['index_page'] = '';
$config['encryption_key'] = '1234';
```

Sekarang buka browser dan arahkan pada alamat http://localhost/ujungberung, maka akan tampil halaman login seperti pada gambar 2 berikut:
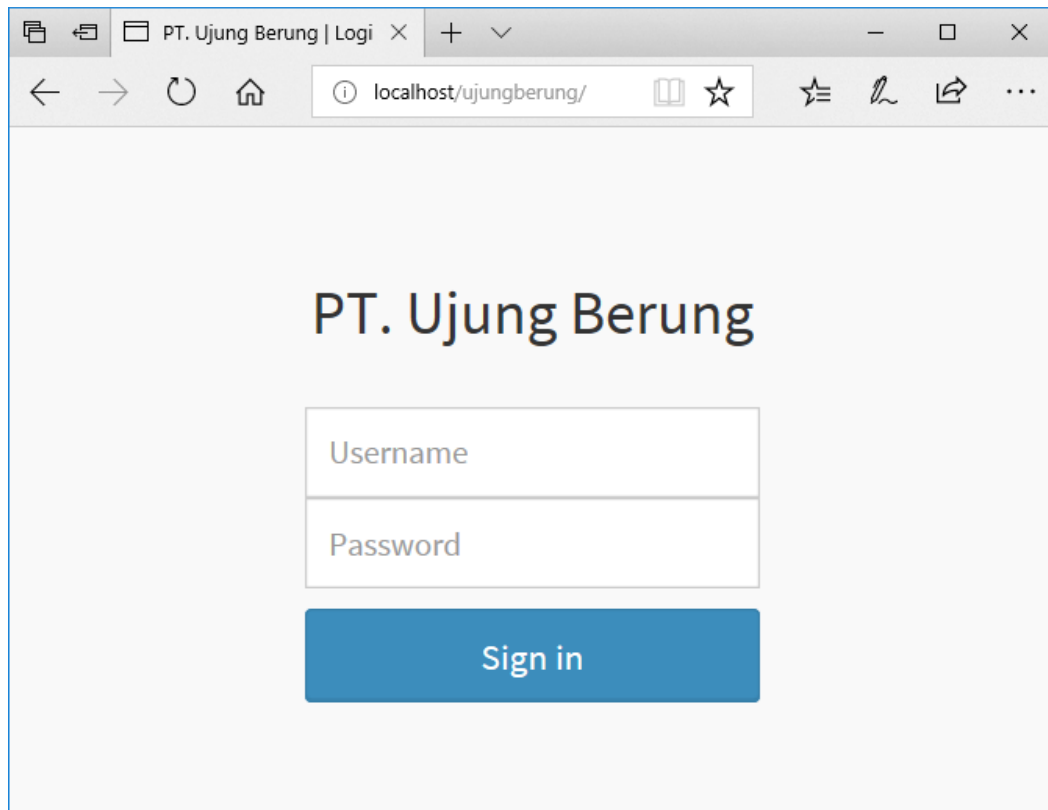
Gambar 2. Halaman Login

4. Membuat Halaman Dashboard

Apabila user yang berhak mengakses sistem berhasil melakukan autentikasi, maka akan langsung diarahkan menuju halaman *dashboard* atau halaman utama aplikasi. Untuk membuat halaman *dashboard*, buatlah sebuah file dengan sintaks seperti script 16 dibawah, pada *application/views* dengan nama **main_page.php**.

Script 16. main_page.php

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

<!DOCTYPE html>
<html>
    <head>
        <?php include 'inc/head.php';?>
    </head>

    <body class="skin-blue">
        <?php
            include 'inc/header.php';
        ?>
        <div class="wrapper row-offcanvas row-offcanvas-left">
            <!-- Left side column. contains the logo and sidebar -->
            <?php include 'sidebar-nav.php';?>
            <!-- Right side column. Contains the navbar and content of the
page -->
            <aside class="right-side">
                <!-- Content Header (Page header) -->
                <section class="content-header">
                    <h1>
                        Dashboard
                    </h1>
                    <ol class="breadcrumb">
                        <li class="active"><i class="fa fa-dashboard"></i>
Dashboard</li>
                    </ol>
                </section>

                <!-- Main content -->
                <section class="content">
                <?php if ($level == '1') {
                    # code...
                ?>
                    <!-- Small boxes (Stat box) -->
                    <div class="row">
                        <div class="col-lg-3 col-xs-6">
                            <!-- small box -->
                            <div class="small-box bg-aqua">
                                <div class="inner">
                                    <h3>
                                        <?php
                                            $this->db->select('*');
                                            $this->db->from('t_model');
                                            echo $this->db-
>count_all_results();
                                        ?>
                                    </h3>
                                    <p>
                                        Total Produk
                                    </p>
                                </div>
                                <div class="icon">
                                    <i class="ion ion-bag"></i>
                                </div>
                                <a href="<?php echo site_url('item');?>"
class="small-box-footer">
                                    More info <i class="fa fa-arrow-circle-
right"></i>
                                </a>
```

```html
                    </div>
                </div><!-- ./col -->
                <div class="col-lg-3 col-xs-6">
                    <!-- small box -->
                    <div class="small-box bg-green">
                        <div class="inner">
                            <h3>
                                <?php
                                    $this->db->select('*');
                                    $this->db->from('t_stock');
                                    echo $this->db-
>count_all_results();
                                ?>
                            </h3>
                            <p>
                                Total Stok
                            </p>
                        </div>
                        <div class="icon">
                            <i class="ion ion-android-checkbox-
outline"></i>
                        </div>
                        <a href="<?php echo site_url('model');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
right"></i>
                        </a>
                    </div>
                </div><!-- ./col -->
                <div class="col-lg-3 col-xs-6">
                    <!-- small box -->
                    <div class="small-box bg-red">
                        <div class="inner">
                            <h3>
                                <?php

                                    $this->db->select('*');
                                    $this->db->from('t_stock');
                                    $this->db->where('status', 'IN
PROCESS');
                                    echo $this->db-
>count_all_results();
                                ?>
                            </h3>
                            <p>
                                Stok Dalam Proses
                            </p>
                        </div>
                        <div class="icon">
                            <i class="ion ion-arrow-graph-up-
right"></i>
                        </div>
                        <a href="<?php echo site_url('model');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
right"></i>
                        </a>
                    </div>
                </div><!-- ./col -->
                <div class="col-lg-3 col-xs-6">
                    <!-- small box -->
```

```php
                        <div class="small-box bg-yellow">
                            <div class="inner">
                                <h3>
                                    <?php

                                        $this->db->select('*');
                                        $this->db->from('t_stock');
                                        $this->db->where('status',
'UNPROCESSED');

                                        echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Belum Diproses
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-android-cancel"></i>
                            </div>
                            <a href="<?php echo site_url('model');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
                    </div><!-- ./col -->
                </div><!-- /.row -->
                <?php
                }
                elseif ($level == '2') {
                    # code...

                 ?>
                <!-- BAGIAN PABRIK -->

                <!-- Small boxes (Stat box) -->
                <div class="col-lg-1 col-xs-6"></div>
                <div class="row">
                    <div class="col-lg-2 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-aqua">
                            <div class="inner">
                                <h3>
                                    <?php
                                        $this->db->select('*');
                                        $this->db->from('view_proses');
                                        $this->db-
>where('nama_proses','mesin');

                                        echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Pada Mesin
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-ios-cog"></i>
                            </div>
                            <a href="<?php echo site_url('proses');?>"
```

```html
class="small-box-footer">
                                    More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
                    </div><!-- ./col -->
                    <div class="col-lg-2 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-green">
                            <div class="inner">
                                <h3>
                                    <?php
                                        $this->db->select('*');
                                        $this->db->from('view_proses');
                                        $this->db-
>where('nama_proses','rosso');
                                        echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Pada Rosso
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-scissors"></i>
                            </div>
                            <a href="<?php echo site_url('rosso');?>"
class="small-box-footer">
                                    More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
                    </div><!-- ./col -->
                    <div class="col-lg-2 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-red">
                            <div class="inner">
                                <h3>
                                    <?php
                                        $this->db->select('*');
                                        $this->db->from('view_proses');
                                        $this->db-
>where('nama_proses','balikan');
                                        echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Pada Balikan
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-ios-refresh"></i>
                            </div>
                            <a href="<?php echo site_url('balikan');?>"
class="small-box-footer">
                                    More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
```

```html
                    </div><!-- ./col -->
                    <div class="col-lg-2 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-yellow">
                            <div class="inner">
                                <h3>
                                    <?php
                                        $this->db->select('*');
                                        $this->db->from('view_proses');
                                        $this->db-
>where('nama_proses','oven');

                                        echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Pada Oven
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-bonfire"></i>
                            </div>
                            <a href="<?php echo site_url('oven');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
                    </div><!-- ./col -->
                    <div class="col-lg-2 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-purple">
                            <div class="inner">
                                <h3>
                                    <?php
                                        $this->db->select('*');
                                        $this->db->from('view_proses');
                                        $this->db-
>where('nama_proses','packing');

                                        echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Pada Packing
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-cube"></i>
                            </div>
                            <a href="<?php echo site_url('packing');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
                    </div><!-- ./col -->
                    <div class="col-lg-1 col-xs-6"></div>
                </div><!-- /.row -->
                <?php
            }
```

```php
                    ?>
                <!-- Main row -->
                <div class="row">
                    <!-- Left col -->
                    <section class="col-lg-12 connectedSortable">


                        <!-- Custom tabs (Charts with tabs)-->
                        <div class="nav-tabs-custom">
                            <!-- Tabs within a box -->
                            <ul class="nav nav-tabs pull-right">
                                <li class="active"><a href="#alamat-
kantor" data-toggle="tab">Kantor</a></li>
                                <li><a href="#alamat-pabrik" data-
toggle="tab">Pabrik</a></li>
                                <li class="pull-left header"><i
class="fa fa-inbox"></i> Kontak</li>
                            </ul>
                            <div class="tab-content no-padding">
                                <!-- Morris chart - Sales -->
                                <div class="chart tab-pane active"
id="alamat-kantor" style="position: relative; height: 250px;">
                                    <br/>
                                    <div class="col-md-1"></div>
                                    <div class="col-md-10">

                                        <?php
                                            foreach($user1->result() as
$row)
                                            { ?>
                                                <address>
                                                  <strong>PT
Ujungberung (Office)</strong><br>
                                                <?php echo $row-
>user_alamat; ?><br>
                                                <?php echo $row-
>user_kota;  ?> <?php echo $row->user_kodepos;  ?><br>
                                                <i class="fa fa-
phone-square"></i> <?php echo $row->user_telepon;  ?>
                                                </address>

                                                <address>
                                                  <strong><?php echo
$row->user_nama;  ?></strong><br>
                                                <?php echo $row-
>user_role;  ?><br>
                                                <i class="fa fa-
inbox"></i><a href="mailto:<?php echo $row->user_email;  ?>"> <?php echo
$row->user_email;  ?></a>
                                                </address>
                                        <?php
                                            }
                                        ?>

                                    </div>

                                </div>
                                <div class="chart tab-pane" id="alamat-
pabrik" style="position: relative; height: 250px;">
                                    <br/>
                                        <div class="col-md-1"></div>
```

```php
                                                <div class="col-md-10">
                                             <?php
                                                foreach($user2-
>result() as $row)
                                             { ?>
                                                <address>
                                                    <strong>PT
Ujungberung (Factory)</strong><br>
                                                    <?php echo $row-
>user_alamat; ?><br>
                                                    <?php echo $row-
>user_kota;  ?> <?php echo $row->user_kodepos;  ?><br>
                                                    <i class="fa fa-
phone-square"></i> <?php echo $row->user_telepon;  ?>
                                                </address>

                                                <address>
                                                    <strong><?php
echo $row->user_nama;  ?></strong><br>
                                                    <?php echo $row-
>user_role;  ?><br>
                                                    <i class="fa fa-
inbox"></i><a href="mailto:<?php echo $row->user_email;  ?>"> <?php echo
$row->user_email;  ?></a>
                                                </address>
                                             <?php
                                                }
                                             ?>

                                        </div>
                                    </div>
                                </div>
                            </div><!-- /.nav-tabs-custom -->


                    </section><!-- right col -->
                </div><!-- /.row (main row) -->

            </section><!-- /.content -->
        </aside><!-- /.right-side -->
    </div><!-- ./wrapper -->

    <?php include 'inc/jq.php'; ?>

  </body>
</html>
```

Pada file di atas, kita telah memanggil dua buah file lain yaitu **inc/header.php** dan **sidebar-nav.php**, oleh karena itu buat kedua buah file tersebut pada *aplication/views* dan isi dengan sintak seperti script 17 berikut:

Script 17. header.php

```php
<!DOCTYPE html>
<html>
  <head>
  </head>

  <body>

    <!-- header logo: style can be found in header.less -->
    <header class="header">

      <a href="<?php echo base_url(); ?>" class="logo">
          <!-- Add the class icon to your logo image or logo icon to add
the margining -->
          Ujungberung
      </a>

      <!-- Header Navbar: style can be found in header.less -->
      <nav class="navbar navbar-static-top" role="navigation">

        <!-- Sidebar toggle button-->
        <a href="#" class="navbar-btn sidebar-toggle" data-
toggle="offcanvas" role="button">
            <!-- <span class="sr-only">Toggle navigation</span> -->
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
        </a>

        <!-- User toggle button -->
        <div class="navbar-right">
          <ul class="nav navbar-nav">
            <li class="dropdown user user-menu">
              <a href="#" class="dropdown-toggle" data-toggle="dropdown">
                <i class="glyphicon glyphicon-user"></i>
                <span><?php echo $this->session->userdata('nama'); ?> <i
class="caret"></i></span>
              </a>
              <ul class="dropdown-menu">

                <!--  User image -->
                <li class="user-header bg-light-blue">
                    <img src="img/avatar04.png" class="img-circle"
alt="User Image" />
                    <p>
                        <?php echo $this->session->userdata('nama'); ?>
                        <small><?php echo $this->session-
>userdata('role'); ?></small>
                    </p>
                </li>
```

```html
                    <!-- Menu Footer-->
                    <li class="user-footer">
                        <div class="pull-left">
                            <a href="#" class="btn btn-default btn-flat"
disabled>Profile Setting</a>
                        </div>
                        <div class="pull-right">
                            <a href="<?php echo site_url('home/logout'); ?>"
class="btn btn-default btn-flat">Sign out</a>
                        </div>
                    </li>
                </ul>
            </li>
        </ul>
    </div>
</nav>
</header>
</body>
</html>
```

Application/views/sidebar-nav.php

Script 18. sidebar-nav.php

```html
<!DOCTYPE html>
<html>

  <head>
  </head>

  <body>
    <aside class="left-side sidebar-offcanvas">

      <section class="sidebar">
        <!-- Sidebar user panel -->
        <div class="user-panel">
            <div class="pull-left image">
                <img src="img/avatar04.png" class="img-circle" alt="avatar
user" />
            </div>
            <div class="pull-left info">
                <p>User: <small><?php echo $this->session-
>userdata('username'); ?></small></p>

                <small><i class="fa fa-circle text-success"></i>
Online</small>
            </div>
        </div>

        <ul class="sidebar-menu">

            <?php
                foreach($menu->result() as $row)
                { ?>
                    <li>
                        <a href="<?php echo $row->menu_uri; ?>">
                            <i class="<?php echo $row->menu_icon; ?>"></i>
<span><?php echo $row->menu_nama; ?></span>
```

```
                    </a>
                </li>
        <?php
            }
        ?>

    </ul>
</section>
<!-- /.sidebar -->

</aside>

</body>
</html>
```

Sehingga tampilan halaman *dashboard* akan terlihat seperti gambar 3 berikut:
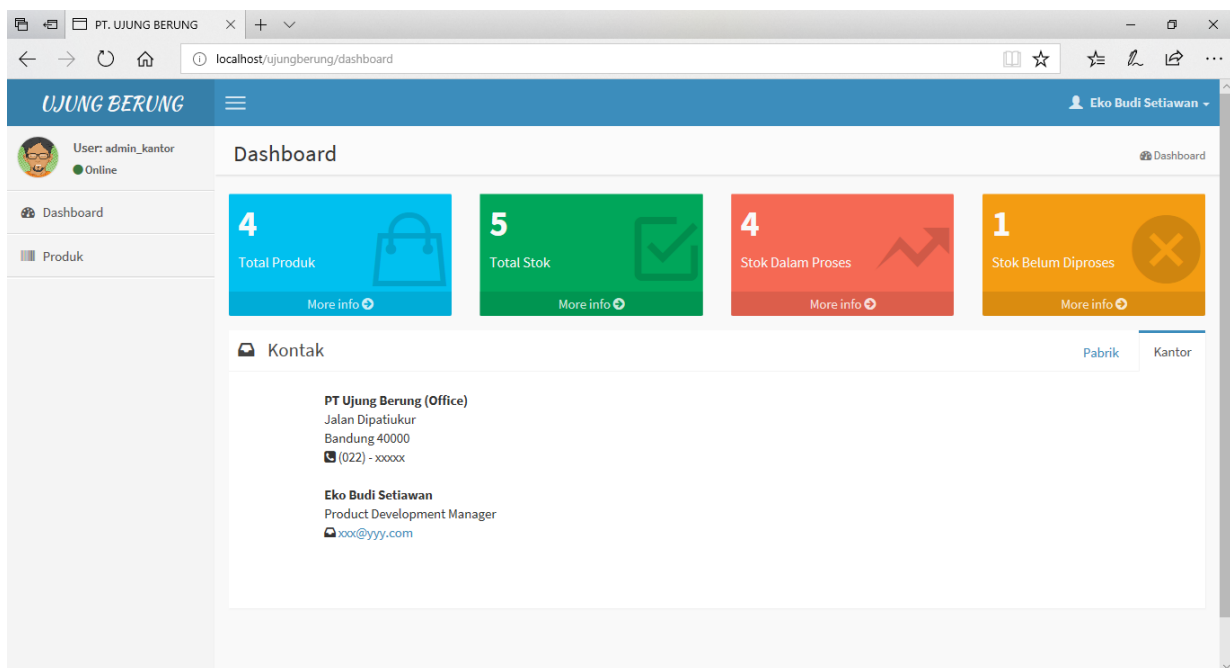
Gambar 3. Halaman dashboard

5. CRUD Produk

Pada bagian ini, kita akan membuat fungsi CRUD (*Create, Read, Update, Delete*) pada data produk. Untuk itu, sebelumnya harus dibuat satu buah tabel t_model pada database untuk menyimpan data model produk.

Field	Tipe data	Constraint
kode_model	varchar(4)	PRIMARY KEY
nama_model	Varchar(20)	NOT NULL
deskripsi	text	-

Setelah itu, buat sebuah model dengan nama **item_model.php** pada *application/models*. Gunakan sintaks seperti script 19 berikut:

Script 19. item_model.php

```php
<?php
    class Item_model extends CI_Model {

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

        // Fungsi insert data ke t_model
        function insert_item($data){
            return $this->db->insert('t_model', $data);
        }

        // Fungsi menampilkan seluruh data dari t_model
        function select_all(){
            $this->db->select('*');
            $this->db->from('t_model');
            $this->db->order_by('kd_model', 'desc');
            return $this->db->get();
        }

        /**
         * Fungsi menampilkan data berdasarkan kode model.
         * Fungsi ini digunakan untuk proses pencarian.
         */
        function select_by_kode($kd_model){
            $this->db->select('*');
            $this->db->from('t_model');
            $this->db->where("(LOWER(kd_model) LIKE
'%{$kd_model}%' )");

            return $this->db->get();
        }

        function select_by_id($kd_model){
            $this->db->select('*');
            $this->db->from('t_model');
            $this->db->where('kd_model', $kd_model);

            return $this->db->get();
        }

        // Fungsi update data ke t_model
        function update_item($kd_model, $data){
            $this->db->where('kd_model', $kd_model);
            $this->db->update('t_model', $data);
        }

        // Fungsi delete data dari t_model
        function delete_item($kd_model){
```

```php
                    $this->db->where('kd_model', $kd_model);
                    $this->db->delete('t_model');
            }


            // fungsi yang digunakan oleh paginationsample
            function select_all_paging($limit=array()){
                    $this->db->select('*');
                    $this->db->from('t_model');

                    if ($limit != NULL)
                            $this->db->limit($limit['perpage'],
$limit['offset']);
                    return $this->db->get();
            }

            // Menghitung jumlah rows
            function jumlah_item(){
                    $this->db->select('*');
                    $this->db->from('t_model');
                    return $this->db->count_all_results();
            }
                            function eksport_data() {
                    $this->db->select('kd_model, nama_model,
deskripsi');
                    $this->db->from('t_model');
                    return $this->db->get();
            }
        }
?>
```

Kemudian buat controller dengan nama **newitem.php** pada *application/controllers*. Gunakan sintaks seperti script 20 berikut:

Script 20. newitem.php

```php
<?php if (!defined('BASEPATH')) {
    exit('No direct script access allowed');
}

class Newitem extends CI_Controller
{

    public function __construct()
    {
        parent::__construct();
        $this->load->helper('url');
        $this->load->model('item_model');
    }

    public function index()
    {
        // mencegah user yang belum login untuk mengakses halaman ini
        $this->auth->restrict();
        // mencegah user mengakses menu yang tidak boleh ia buka,
parameter merupakan nilai yang diijinkan.
        $this->auth->cek_menu(2);

        $data['daftar_item'] = $this->item_model->select_all()->result();
```

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```php
        $this->menu->tampil_sidebar();

        $this->load->view('new-item', $data);
    }

    // Pagination Table
    public function lihat_item_paging($offset = 0)
    {
        // tentukan jumlah data per halaman
        $perpage = 10;

        // load library pagination
        $this->load->library('pagination');

        // konfigurasi tampilan paging
        $config = array(
            'base_url' => site_url('newitem/lihat_item_paging'),
            'total_rows' => count($this->item_model->select_all()-
>result()),
            'per_page' => $perpage,
        );

        // inisialisasi pagination dan config
        $this->pagination->initialize($config);
        $limit['perpage'] = $perpage;
        $limit['offset'] = $offset;
        $data['daftar_item'] = $this->item_model-
>select_all_paging($limit)->result();
        $this->load->view('t-new-item', $data);
    }

    public function lihat_item()
    {
        $data['daftar_item'] = $this->item_model->select_all()->result();
        $this->load->view('t-new-item', $data);

    }

    public function proses_item()
    {
        $method = $this->input->post("method");
        $item = new stdClass();
        if($method == 'create') {
            $data['kd_model'] = $this->input->post('kd_model');
            $data['nama_model'] = $this->input->post('nama_model');
            $data['deskripsi'] = $this->input->post('deskripsi');
            $kd_model = $this->item_model->insert_item($data);
            $data['kd_model'] = $kd_model;
            $item = $data;
        } else {
            $data['nama_model'] = $this->input->post('nama_model');
            $data['deskripsi'] = $this->input->post('deskripsi');
            $kd_model = $this->input->post('kd_model');
            $this->item_model->update_item($kd_model, $data);
            $data['kd_model'] = $kd_model;
            $item = $data;
        }

        echo json_encode([
            'item' => $item
```

```php
        ]);
        exit(0);
    }

    public function show_item()
    {
        if($this->input->server("REQUEST_METHOD") == "POST") {
            $kd_model = $this->input->post("kode");
            $item = $this->item_model->select_by_id($kd_model)->row();
            http_response_code(200);
            echo json_encode([
                'item' => $item,
            ]);
            exit(0);
        }
    }

    public function edit_item($kd_model)
    {
        $data['daftar_item'] = $this->item_model->select_by_id($kd_model)-
>row();
        $this->load->view('edit_item', $data);
    }

    public function proses_edit_item()
    {
        $data['nama_model'] = $this->input->post('nama_model');
        $data['deskripsi'] = $this->input->post('deskripsi');
        $kd_model = $this->input->post('kd_model');
        $this->item_model->update_item($kd_model, $data);
        redirect(site_url('newitem'));
    }

    public function delete_item($kd_model)
    {
        $this->item_model->delete_item($kd_model);
        redirect(site_url('newitem'));
    }

    // proses untuk mencari item
    public function proses_cari_item()
    {
        $kd_model = $this->input->post('kd_model');
        $data['daftar_item'] = $this->item_model-
>select_by_kode($kd_model)->result();
        $this->load->view('t-new-item', $data);
    }

}

/* End of file new-item.php */
/* Location: ./application/controllers/new-item.php */
```

Selanjutnya buat dua buah view untuk menampilkan data produk pada *application/views* dengan nama **new-item.php** dan **t-new-item.php.** Gunakan sintaks seperti script 21 berikut:

Script 21. new-item.php

```html
<!DOCTYPE html>
<html>

<head>
    <?php include 'inc/head.php';?>
    <script type="text/javascript" src="js/jquery.min.js"></script>

</head>

<body class="skin-blue">

    <?php include 'inc/header.php'; ?>

    <div class="wrapper row-offcanvas row-offcanvas-left">
        <?php include 'sidebar-nav.php'; ?>
    </div>

    <aside class="right-side">
        <section class="content-header">
            <h1>Kelola Produk</h1>
            <ol class="breadcrumb">
                <li><a href="<?php echo site_url('dashboard'); ?>"><i
class="fa fa-dashboard"></i> Dashboard</a></li>
                <li class="active">Produk</li>
            </ol>
        </section>

        </br>

        <div class="col-md-2">
            <!-- Small modal -->
            <div class="form-group">
                <button class="btn btn-default" data-toggle="modal" data-
target=".bs-example-modal-sm">
                    <span class="glyphicon glyphicon-plus"></span> Tambah
Model Baru
                </button>
            </div>
        </div>

        <div class="col-md-7"></div>

        <div class="col-md-3">
            <!-- search form -->
            <form action="" method="POST">
                <div class="input-group">
                    <input type="text" id="input-kode" name="q"
class="form-control" placeholder="Masukkan kode model..." required/>
                    <span class="input-group-btn">
                        <button type='submit' name='seach' id='search-btn'
class="btn btn-flat"><i class="fa fa-search"></i></button>
                    </span>
                </div>
            </form>
            <!-- /.search form -->
        </div>

        </br>

        <!-- Modal Add Item-->
        <div class="modal fade bs-example-modal-sm" tabindex="-1"
```

```html
role="dialog" aria-labelledby="mySmallModalLabel" aria-hidden="true">
        <div class="modal-dialog modal-sm">
            <div class="modal-content">
                <div class="box box-warning">
                    <div class="box-header">
                        <h3 class="box-title">New Item </h3>
                    </div><!-- /.box-header -->
                    <div class="box-body">
                        <form id="form-insert-item" role="form">
                            <div class="form-group">
                                <label>Kode Model</label>
                                <input type="text" name="kd_model"
class="form-control" maxlength="4" placeholder="Kode model maksimal 4
digit ..." required/>
                            </div>
                            <div class="form-group">
                                <label>Nama Model</label>
                                <input type="text"
name="nama_model"class="form-control" placeholder="Masukkan nama model
..." required/>
                            </div>
                            <div class="form-group">
                                <label>Keterangan</label>
                                <textarea name="deskripsi" class="form-
control" rows="3" placeholder="Masukkan deskripsi produk ..."></textarea>
                            </div>

                            <div class="box-footer">
                                <button type="submit" class="btn btn-
primary">Submit</button>
                                <button type="reset" class="btn btn-
warning">Reset</button>
                            </div>
                        </form>
                    </div><!-- /.box-body -->
                </div><!-- /.box -->
            </div>
        </div>
    </div>

    <!-- Ajax Tambah Item / TABEL -->
    <div id='ajax_add_item'>

    </div><!--/.Ajax Tambah Item -->

</aside>

<?php
    include 'inc/jq.php';
?>

</body>

<script type="text/javascript">
    $(document).ready(function()
    {
        // menampilkan semua list agenda saat pertama kali halaman utama
diload
        $("#ajax_add_item").load("<?php echo
site_url('newitem/lihat_item_paging');?>");
```

```
        // melakukan proses tambah item ketika tombol ditekan
        $('#form-insert-item').submit(function(){
            $.ajax({
                type:'POST',
                url:"<?php echo site_url('newitem/proses_tambah_item')
?>",
                data:$(this).serialize(),
                success:function (data) {
                    $('#ajax_add_item').load("<?php echo
site_url('newitem/lihat_item_paging') ?>");
                    $('.bs-example-modal-sm').modal('hide');
                    $("#form-insert-item")[0].reset();
                    alert('success');
                },
                error:function (data){
                    alert("error");
                }
            });
            return false;
        });


    // melakukan proses pencarian ketika mengetikkan nama agenda
    $('#input-kode').keyup(function(){
        var kd_model = $('#input-kode').val();
        $.ajax({
            type:"POST",
            url:"<?php echo site_url('newitem/proses_cari_item');?>",
            data:'kd_model='+kd_model,
            success:function(html){
                $('#ajax_add_item').html(html);
            }
        });
    });



    }); //EO Javascript
</script>

</html>
```

t-new-item.php

Script 22. t-new-item.php
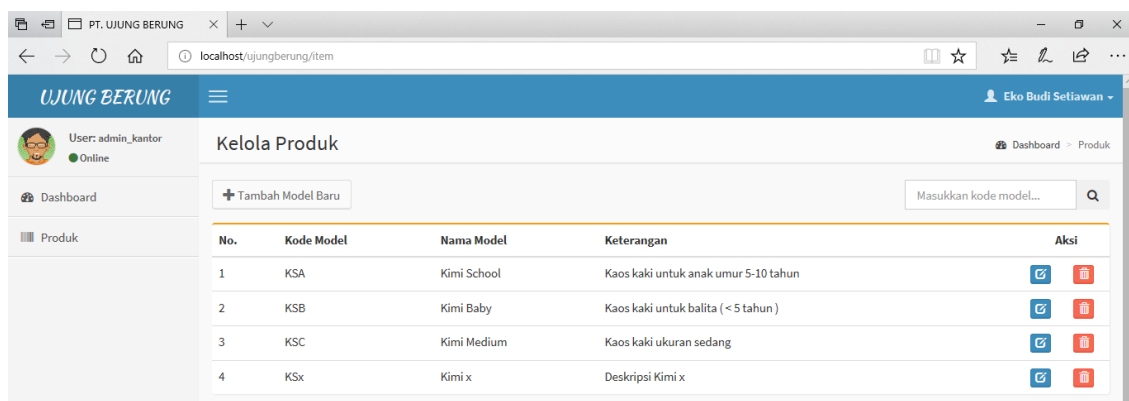
```php
<?php echo $this->pagination->create_links(); ?>

<div class="col-md-12">
    <div class="box box-warning">
        <div class="box-body no-padding">
            <table class="table">
                <thead>
                    <tr>
                        <th>No.</th>
                        <th>Kode Model</th>
                        <th>Nama Model</th>
```

```html
                    <th>Keterangan</th>
                    <th colspan='2'><div
align="center">Aksi</div></th>

                </tr>
            </thead>
            <tbody>
                <?php $i = 1; ?>
                <?php foreach ($daftar_item as $item) {?>
                    <tr>
                        <td><?php echo $i++; ?></td>
                        <td><?php echo $item->kd_model;?></td>
                        <td><?php echo $item->nama_model;?></td>
                        <td><?php echo $item->deskripsi;?></td>
                        <td width="50"><button data-kode="<?php echo
$item->kd_model ?>" class="btn btn-primary btn-xs btn-edit"><span
class="glyphicon glyphicon-edit"></span></a></td>
                        <td width="50"><a href="<?php echo
site_url('newitem/delete_item/'.$item->kd_model);?>" class="btn btn-danger
btn-xs" onclick="return confirm('Apakah Anda yakin untuk menghapus produk
ini?');"><span class="glyphicon glyphicon-trash"></span></a></td>
                    </tr>
                <?php } ?>
            </tbody>
        </table>
    </div>
</div>
        <a class="btn btn-success" href="<?php echo
site_url('report');?>" role="button"><i class="fa fa-file-excel-o"></i>
Export to Excel</a>
</div>

<?php echo $this->pagination->create_links(); ?>
```

Sekarang kita telah berhasil membuat CRUD pada model produk, isilah dengan beberapa data maka hasilnya akan seperti gambar 4 berikut:

Gambar 4. Halaman model produk

6. Ekspor Laporan

Kita telah mempunyai data model produk dari hasil input melalui aplikasi, kemudian kita

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akan mengekspor data tersebut kedalam sebuah file berekstensi *.xlsx menggunakan library *PHPExcel*. Berikut langkah-langkah untuk melakukan hal tersebut.

1. Tambahkan fungsi seperti pada script 23 berikut pada model
   C:\xampp\htdocs\ujungberung\application\models**item_model.php**

Script 23. fungsi item_model.php

```php
function eksport_data() {
                    $this->db->select('kd_model, nama_model,
deskripsi');
                    $this->db->from('t_model');
                    return $this->db->get();
        }
```

2. Buat sebuah controller pada *application/controllers* dengan name **report.php**. Pada controller ini kita akan memanfaat library-library PHPExcel. Gunakan sintaks seperti script 24 berikut:

Script 24. report.php

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

class Report extends CI_Controller {

        public function __construct()
        {
                parent::__construct();
                $this->load->model('item_model');
        }

        public function index()
        {
                $query = $this->item_model->eksport_data();

        if(!$query)
            return false;

        // Load library PHPExcel
        $this->load->library('PHPExcel');
        $this->load->library('PHPExcel/IOFactory');

        // Buat sebuah file Excel baru.
        $objPHPExcel = new PHPExcel();
                $objPHPExcel->getProperties()->setTitle("Laporan Produk
PT.Ujung Berung");
                $objPHPExcel->getProperties()->setDescription("Berisi data
model produk (Kode model, Nama Model, dan Deskrpsi model.");
        $objPHPExcel->setActiveSheetIndex(0);

        // Header laporan
        $objPHPExcel->getActiveSheet()->setCellValue('A1','Laporan Produk
PT. Ujung Berung');
        $objPHPExcel->getActiveSheet()->mergeCells('A1:C1');
        $objPHPExcel->getActiveSheet()->getStyle('A1')->getFont()-
```

```php
>setSize(16);
        $objPHPExcel->getActiveSheet()->getStyle('A1')->getFont()-
>setBold(true);
        $objPHPExcel->getActiveSheet()->getRowDimension('1')-
>setRowHeight(30);
        $objPHPExcel->getActiveSheet()->getStyle('A1')->getAlignment()-
>setHorizontal(PHPExcel_Style_Alignment::HORIZONTAL_CENTER)-
>setVertical(PHPExcel_Style_Alignment::VERTICAL_CENTER);

        // Tanggal laporan
        $today = date("d-m-Y");
        $objPHPExcel->getActiveSheet()->setCellValue('C3','Tanggal:
'.$today);
        $objPHPExcel->getActiveSheet()->getStyle('C3')->getAlignment()-
>setHorizontal(PHPExcel_Style_Alignment::HORIZONTAL_RIGHT);
        $objPHPExcel->getActiveSheet()->getStyle('C3')->getFont()-
>setBold(true);

        // Header tabel produk
        $objPHPExcel->getActiveSheet()->getColumnDimension('A')-
>setWidth(15);
        $objPHPExcel->getActiveSheet()->getColumnDimension('B')-
>setWidth(20);
        $objPHPExcel->getActiveSheet()->getColumnDimension('C')-
>setWidth(50);

        $objPHPExcel->getActiveSheet()->getRowDimension('5')-
>setRowHeight(15);

        $objPHPExcel->getActiveSheet()->setCellValue('A5','Kode Model');
        $objPHPExcel->getActiveSheet()->setCellValue('B5','Nama Model');
        $objPHPExcel->getActiveSheet()->setCellValue('C5','Deskripsi');

        $objPHPExcel->getActiveSheet()->getStyle('A5:C5')->getFont()-
>setBold(true);
        $objPHPExcel->getActiveSheet()->getStyle('A5:C5')->getAlignment()-
>setHorizontal(PHPExcel_Style_Alignment::HORIZONTAL_CENTER);

        // Border header tabel
        $styleArray = array(
                'fill' => array(
                        'type' => PHPExcel_Style_Fill::FILL_SOLID,
                        'color' => array('rgb'=>'E1E0F7'),
                    ),
                'borders' => array(
                    'outline' => array(
                            'style' => PHPExcel_Style_Border::BORDER_THIN,
                    ),
                ),
                );
                $objPHPExcel->getActiveSheet()->getStyle('A5')-
>applyFromArray($styleArray);
                $objPHPExcel->getActiveSheet()->getStyle('B5')-
>applyFromArray($styleArray);
                $objPHPExcel->getActiveSheet()->getStyle('C5')-
>applyFromArray($styleArray);

        // Isi tabel
        $fields = $query->list_fields();
        $row = 6;
        foreach($query->result() as $data)
```

```
        {
            $col = 0;
            foreach ($fields as $field)
            {
                $objPHPExcel->getActiveSheet()-
>setCellValueByColumnAndRow($col, $row, $data->$field);
                        $objPHPExcel->getActiveSheet()-
>getStyle("A".($row).":C".($row))->getBorders()->getAllBorders()-
>setBorderStyle(PHPExcel_Style_Border::BORDER_THIN);
                    $col++;
            }
            $row++;
        }


        // Menuliskan skrip pada file yang telah dibuat.
        $objWriter = IOFactory::createWriter($objPHPExcel, 'Excel2007');

        // Mendefinisikan header dan melakukan unggah secara otomatis.
        $filename='Laporan_Produk_'.$today.'.xlsx';

        header('Content-Type: application/vnd.ms-excel');
        header('Content-Disposition: attachment;filename="'.$filename.'"');
        header('Cache-Control: max-age=0');

        ob_get_clean();
        $objWriter->save('php://output');
        }

}
```

3. Kemudian tambahkan tombol ekspor di file **t-new-item.php** pada *application/views* sehingga seperti sintaks pada script 25 berikut:

Script 25. t-new-item.php

```php
<?php echo $this->pagination->create_links(); ?>

<div class="col-md-12">
    <div class="box box-warning">
        <div class="box-body no-padding">
            <table class="table">
                <thead>
                    <tr>
                        <th>No.</th>
                        <th>Kode Model</th>
                        <th>Nama Model</th>
                        <th>Keterangan</th>
                        <th colspan='2'><div align="center">Aksi</div></th>

                    </tr>
                </thead>
                <tbody>
                    <?php $i = 1; ?>
                    <?php foreach ($daftar_item as $item) {?>
                        <tr>
                            <td><?php echo $i++; ?></td>
                            <td><?php echo $item->kd_model;?></td>
```

```
                              <td><?php echo $item->nama_model;?></td>
                              <td><?php echo $item->deskripsi;?></td>
                              <td width="50"><button data-kode="<?php echo
$item->kd_model ?>" class="btn btn-primary btn-xs btn-edit"><span
class="glyphicon glyphicon-edit"></span></a></td>
                              <td width="50"><a href="<?php echo
site_url('newitem/delete_item/'.$item->kd_model);?>" class="btn btn-danger
btn-xs" onclick="return confirm('Apakah Anda yakin untuk menghapus produk
ini?');"><span class="glyphicon glyphicon-trash"></span></a></td>
                          </tr>
                      <?php } ?>
                  </tbody>
              </table>
          </div>
      </div>
              <a class="btn btn-success" href="<?php echo
site_url('report');?>" role="button"><i class="fa fa-file-excel-o"></i>
Export to Excel</a>
</div>

<?php echo $this->pagination->create_links(); ?>
```

4. Buka **IOFactory.php** dalam folder Application/Libraries/PHPExcel. Ubah syntax **class PHPExcel_IOFactory** menjadi hanya **class IOFactory** saja. Kemudian ganti **private** function __construct() { } menjadi **public** function __construct() { }

5. Buka file **application\libraries\PHPExcel\Calculation\Functions.php** lalu beri komentar pada line 581 menjadi **//break;**

Sehingga tampilannya akan terlihat seperti gambar 5 berikut:
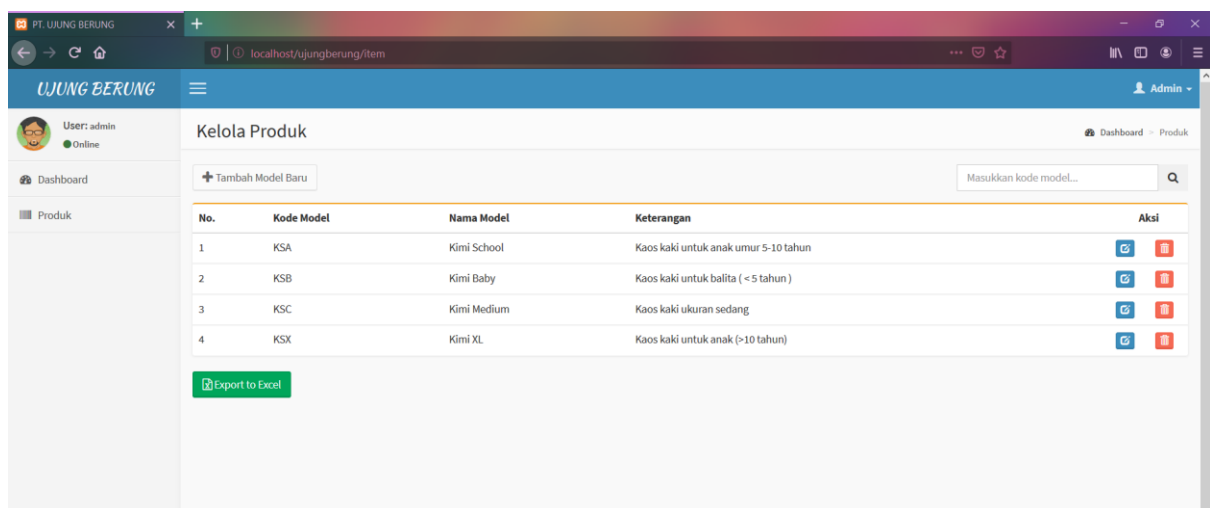
Gambar 5. Halaman model produk setelah ditambahkan fungsi Export to Excel

Coba klik pada tombol *Export to Excel*, maka file data model produk dalam ekstensi *.xlsx akan secara otomatis terunduh. Tampilan laporan dari export to excel akan terlihat seperti gambar 6 berikut:

Gambar 6. Hasil Export to Excel

7. Menambahkan Grafik

Langkah-langkah untuk menambahkan grafik pada project kita adalah sebagai berikut:
- Download chart.js dari https://github.com/chartjs/Chart.js/releases/tag/v2.8.0
- Simpan file chart.js ke dalam directory **C:\xampp\htdocs\ujungberung\js**

Lalu execeute query sql berikut pada
http://localhost/phpmyadmin/db_sql.php?db=ujungberung_db :

Script 26. ujungberung_db

```
ALTER TABLE `t_model`
      ALTER `kd_stock_last` DROP DEFAULT;
   ALTER TABLE `t_model`
      CHANGE COLUMN `kd_stock_last` `jml_produk` INT(3) NOT NULL AFTER
`deskripsi`;
```

Pada `function __construct()` di **/application/controllers/home.php**

Script 27. home.php

```
<?php
```

```php
$this->load->model("Item_model");
?>
```

Tambahkan sintaks seperti script 28 berikut pada home.php juga:

Script 28. home.php

```php
<?php
$data['products'] = $this->Item_model->select_all()->result();
        $data['chart'] = [
            'label' => [],
            'data' => [],
        ];
        if($data['products']) {
            foreach ($data['products'] as $key => $product) {
                $data['chart']['label'][] = $product->nama_model;
                $data['chart']['data'][] = $product->jml_produk;
            }
        }

?>
```

Berikut adalah script lengkap pada home.php setelah ditambahkan:

Script 29. home.php lengkap

```php
<?php if (!defined('BASEPATH')) {
    exit('No direct script access allowed');
}

class Home extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();

        // begin:: load model
        $this->load->model("Item_model");

        // end:: load model
    }

    // Default controller
    public function index()
    {
        // Apakah user sudah login?
        if ($this->auth->is_logged_in() == false) {
            // Jika belum arahkan ke form login.
            $this->signin();
        } else {
            // Jika sudah, tampilkan halaman web sesuai hak akses.

            $this->menu->tampil_sidebar();

            // Untuk kebutuhan widget di dashboard
            $this->load->model('usermodel');
            $data['user1'] = $this->usermodel->select_all(1);
            $data['user2'] = $this->usermodel->select_all(2);
            $data['products'] = $this->Item_model->select_all()->result();
```

```php
            $data['chart'] = [
                'label' => [],
                'data' => [],
            ];
            if($data['products']) {
                foreach ($data['products'] as $key => $product) {
                    $data['chart']['label'][] = $product->nama_model;
                    $data['chart']['data'][] = $product->jml_produk;
                }
            }

            $this->load->view('main_page', $data);

        }
    }

    public function signin()
    {
        $this->load->view('login_form');
    }

    public function login()
    {
        $username = $this->input->post('username');
        $password = $this->input->post('password');
        $success = $this->auth->do_login($username, $password);
        if ($success) {
            // lemparkan ke halaman index user
            redirect(site_url('dashboard'));
        } else {
            $data['login_info'] = "Username atau password salah. Silahkan
masukkan kombinasi yang benar!";
            $this->load->view('login_form', $data);
        }

    }

    public function logout()
    {
        if ($this->auth->is_logged_in() == true) {
            // jika dia memang sudah login, destroy session
            $this->auth->do_logout();
        }
        // larikan ke halaman utama
        redirect('login');
    }
}
```

Pada **application/controllers/newitem.php** dibawah nama model, juga di bagian else nya tambahkan sintaks berikut:

Script 30. tambahan pada newitem.php

```php
<?php
 $data['jml_produk'] = $this->input->post('jml_produk');
?>
```

Tambahkan sintaks berikut pada **application/views/inc/jq.php:**

Script 31. jq.php

```php
<?php
<script src="js/chart.min.js" type="text/javascript"></script>
    <script src="js/sidebar.js" type="text/javascript"></script>

?>
```

Berikut adalah script lengkap pada jq.php setelah ditambahkan:

Script 32. jq.php lengkap

```php
<?php
<!DOCTYPE HTML>
<html>

  <head></head>

  <body>
    <!-- jQuery -->
    <script src="js/jquery.min.js" type="text/javascript"></script>
    <!-- jQuery UI-->
    <script src="js/jquery-ui.min.js" type="text/javascript"></script>
    <!-- Bootstrap -->
    <script src="js/bootstrap.min.js" type="text/javascript"></script>
    <script src="js/chart.min.js" type="text/javascript"></script>
    <script src="js/sidebar.js" type="text/javascript"></script>
  </body>
</html>
?>
```

Tambahkan sintaks berikut pada **application/views/main_page.php:**

Script 33. main_page.php

```php
<?php
<section class="col-lg-12 connectedSortable">
                              <!-- Custom tabs (Charts with tabs)-->
                              <div class="nav-tabs-custom">
                                  <!-- Tabs within a box -->
                                  <ul class="nav nav-tabs pull-right">
                                      <!-- <li class="active"><a
href="#alamat-kantor" data-toggle="tab">Kantor</a></li> -->
                                      <li class="pull-left header"><i
class="fa fa-inbox"></i> Chart</li>
                                  </ul>
                                  <div class="tab-content no-padding">
                                      <!-- Morris chart - Sales -->
                                      <div class="chart tab-pane active"
id="alamat-kantor" style="position: relative; height: 250px;">
                                          <br/>
                                          <canvas id="myChart"></canvas>
                                      </div>
                                  </div>
                              </div><!-- /.nav-tabs-custom -->
                          </section>

?>
```

Tambahkan sintaks berikut pada **application/views/main_page.php** dibawah include *'inc/jq.php'*:

Script 34. main_page.php

```html
<script>
            $(document).ready(function() {
                var ctx =
document.getElementById('myChart').getContext('2d');
                var chart = new Chart(ctx, {
                    // The type of chart we want to create
                    type: 'bar',
                    responsive: true,
                    mainAspectRation: false,

                    // The data for our dataset
                    data: {
                        labels: <?php echo json_encode($chart['label']) ?>,
                        datasets: [{
                            label: 'My First dataset',
                            backgroundColor: 'rgb(255, 99, 132)',
                            borderColor: 'rgb(255, 99, 132)',
                            data: <?php echo json_encode($chart['data']) ?>
                        }]
                    },

                    // Configuration options go here
                    options: {}
                });
                chart.canvas.parentNode.style.height = '500px';
                chart.canvas.parentNode.style.width = '100%';
            });
        </script>
```

Untuk merubah warna grafik dari tiap field maka masukkan sintaks seperti script berikut pada **application/views/main_page.php** dibawah `The data for our dataset` dalam option():

Script 35. main_page.php

```
options: {
                    scales: {
                        yAxes: [{
                            ticks: {
                                beginAtZero: true,
                                stepSize: 1,
                            }
                        }]
                    }
                }
            });
```

Berikut adalah script lengkap pada main_page.php setelah ditambahkan:

Script 36. main_page.php lengkap

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

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```php
<!DOCTYPE html>
<html>
    <head>
        <?php include 'inc/head.php';?>
    </head>

    <body class="skin-blue">
        <?php
            include 'inc/header.php';
        ?>
        <div class="wrapper row-offcanvas row-offcanvas-left">
            <!-- Left side column. contains the logo and sidebar -->
            <?php include 'sidebar-nav.php';?>
            <!-- Right side column. Contains the navbar and content of the
page -->
            <aside class="right-side">
                <!-- Content Header (Page header) -->
                <section class="content-header">
                    <h1>
                        Dashboard
                    </h1>
                    <ol class="breadcrumb">
                        <li class="active"><i class="fa fa-dashboard"></i>
Dashboard</li>
                    </ol>
                </section>

                <!-- Main content -->
                <section class="content">
                <?php if ($level == '1') {
                        # code...
                ?>
                    <!-- Small boxes (Stat box) -->
                    <div class="row">
                        <div class="col-lg-3 col-xs-6">
                            <!-- small box -->
                            <div class="small-box bg-aqua">
                                <div class="inner">
                                    <h3>
                                        <?php
                                            $this->db->select('*');
                                            $this->db->from('t_model');
                                            echo $this->db-
>count_all_results();
                                        ?>
                                    </h3>
                                    <p>
                                        Total Produk
                                    </p>
                                </div>
                                <div class="icon">
                                    <i class="ion ion-bag"></i>
                                </div>
                                <a href="<?php echo site_url('item');?>"
class="small-box-footer">
                                    More info <i class="fa fa-arrow-circle-
right"></i>
                                </a>
                            </div>
                        </div><!-- ./col -->
```

```php
                    <div class="col-lg-3 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-green">
                            <div class="inner">
                                <h3>
                                    <?php
                                        $this->db->select('*');
                                        $this->db->from('t_stock');
                                        echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Total Stok
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-android-checkbox-
outline"></i>
                            </div>
                            <a href="<?php echo site_url('model');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
                    </div><!-- ./col -->
                    <div class="col-lg-3 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-red">
                            <div class="inner">
                                <h3>
                                    <?php

                                        $this->db->select('*');
                                        $this->db->from('t_stock');
                                        $this->db->where('status', 'IN
PROCESS');
                                        echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Dalam Proses
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-arrow-graph-up-
right"></i>
                            </div>
                            <a href="<?php echo site_url('model');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
                    </div><!-- ./col -->
                    <div class="col-lg-3 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-yellow">
                            <div class="inner">
```

```php
                                <h3>
                                    <?php

                                            $this->db->select('*');
                                            $this->db->from('t_stock');
                                            $this->db->where('status',
'UNPROCESSED');
                                            echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Belum Diproses
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-android-cancel"></i>
                            </div>
                            <a href="<?php echo site_url('model');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
right"></i>
                            </a>
                        </div>
                    </div><!-- ./col -->
                </div><!-- /.row -->
                <?php
                }
                elseif ($level == '2') {
                    # code...

                 ?>
                <!-- BAGIAN PABRIK -->

                <!-- Small boxes (Stat box) -->
                <div class="col-lg-1 col-xs-6"></div>
                <div class="row">
                    <div class="col-lg-2 col-xs-6">
                        <!-- small box -->
                        <div class="small-box bg-aqua">
                            <div class="inner">
                                <h3>
                                    <?php
                                            $this->db->select('*');
                                            $this->db->from('view_proses');
                                            $this->db-
>where('nama_proses','mesin');
                                            echo $this->db-
>count_all_results();
                                    ?>
                                </h3>
                                <p>
                                    Stok Pada Mesin
                                </p>
                            </div>
                            <div class="icon">
                                <i class="ion ion-ios-cog"></i>
                            </div>
                            <a href="<?php echo site_url('proses');?>"
class="small-box-footer">
                                More info <i class="fa fa-arrow-circle-
```

```html
right"></i>
                                              </a>
                                          </div>
                                      </div><!-- ./col -->
                                      <div class="col-lg-2 col-xs-6">
                                          <!-- small box -->
                                          <div class="small-box bg-green">
                                              <div class="inner">
                                                  <h3>
                                                      <?php
                                                          $this->db->select('*');
                                                          $this->db->from('view_proses');
                                                          $this->db-
>where('nama_proses','rosso');
                                                          echo $this->db-
>count_all_results();
                                                      ?>
                                                  </h3>
                                                  <p>
                                                      Stok Pada Rosso
                                                  </p>
                                              </div>
                                              <div class="icon">
                                                  <i class="ion ion-scissors"></i>
                                              </div>
                                              <a href="<?php echo site_url('rosso');?>"
class="small-box-footer">
                                                      More info <i class="fa fa-arrow-circle-
right"></i>
                                              </a>
                                          </div>
                                      </div><!-- ./col -->
                                      <div class="col-lg-2 col-xs-6">
                                          <!-- small box -->
                                          <div class="small-box bg-red">
                                              <div class="inner">
                                                  <h3>
                                                      <?php
                                                          $this->db->select('*');
                                                          $this->db->from('view_proses');
                                                          $this->db-
>where('nama_proses','balikan');
                                                          echo $this->db-
>count_all_results();
                                                      ?>
                                                  </h3>
                                                  <p>
                                                      Stok Pada Balikan
                                                  </p>
                                              </div>
                                              <div class="icon">
                                                  <i class="ion ion-ios-refresh"></i>
                                              </div>
                                              <a href="<?php echo site_url('balikan');?>"
class="small-box-footer">
                                                      More info <i class="fa fa-arrow-circle-
right"></i>
                                              </a>
                                          </div>
                                      </div><!-- ./col -->
                                      <div class="col-lg-2 col-xs-6">
```

```php
                                <!-- small box -->
                                <div class="small-box bg-yellow">
                                    <div class="inner">
                                        <h3>
                                            <?php
                                                $this->db->select('*');
                                                $this->db->from('view_proses');
                                                $this->db-
>where('nama_proses','oven');
                                                echo $this->db-
>count_all_results();
                                            ?>
                                        </h3>
                                        <p>
                                            Stok Pada Oven
                                        </p>
                                    </div>
                                    <div class="icon">
                                        <i class="ion ion-bonfire"></i>
                                    </div>
                                    <a href="<?php echo site_url('oven');?>"
class="small-box-footer">
                                        More info <i class="fa fa-arrow-circle-
right"></i>
                                    </a>
                                </div>
                            </div><!-- ./col -->
                            <div class="col-lg-2 col-xs-6">
                                <!-- small box -->
                                <div class="small-box bg-purple">
                                    <div class="inner">
                                        <h3>
                                            <?php
                                                $this->db->select('*');
                                                $this->db->from('view_proses');
                                                $this->db-
>where('nama_proses','packing');
                                                echo $this->db-
>count_all_results();
                                            ?>
                                        </h3>
                                        <p>
                                            Stok Pada Packing
                                        </p>
                                    </div>
                                    <div class="icon">
                                        <i class="ion ion-cube"></i>
                                    </div>
                                    <a href="<?php echo site_url('packing');?>"
class="small-box-footer">
                                        More info <i class="fa fa-arrow-circle-
right"></i>
                                    </a>
                                </div>
                            </div><!-- ./col -->
                            <div class="col-lg-1 col-xs-6"></div>
                        </div><!-- /.row -->
                        <?php
                    }
                    ?>
                    <!-- Main row -->
```

```html
                        <div class="row">
                            <section class="col-lg-12 connectedSortable">
                                <!-- Custom tabs (Charts with tabs)-->
                                <div class="nav-tabs-custom">
                                    <!-- Tabs within a box -->
                                    <ul class="nav nav-tabs pull-right">
                                        <!-- <li class="active"><a
href="#alamat-kantor" data-toggle="tab">Kantor</a></li> -->
                                        <li class="pull-left header"><i
class="fa fa-inbox"></i> Chart</li>
                                    </ul>
                                    <div class="tab-content no-padding">
                                        <!-- Morris chart - Sales -->
                                        <div class="chart tab-pane active"
id="alamat-kantor" style="position: relative; height: 250px;">
                                            <br/>
                                            <canvas id="myChart"></canvas>
                                        </div>
                                    </div>
                                </div><!-- /.nav-tabs-custom -->
                            </section>
                            <!-- Left col -->
                            <section class="col-lg-12 connectedSortable"
style="margin-top: 2rem">


                                <!-- Custom tabs (Charts with tabs)-->
                                <div class="nav-tabs-custom">
                                    <!-- Tabs within a box -->
                                    <ul class="nav nav-tabs pull-right">
                                        <li class="active"><a href="#alamat-
kantor" data-toggle="tab">Kantor</a></li>
                                        <li><a href="#alamat-pabrik" data-
toggle="tab">Pabrik</a></li>
                                        <li class="pull-left header"><i
class="fa fa-inbox"></i> Kontak</li>
                                    </ul>
                                    <div class="tab-content no-padding">
                                        <!-- Morris chart - Sales -->
                                        <div class="chart tab-pane active"
id="alamat-kantor" style="position: relative; height: 250px;">
                                            <br/>
                                            <div class="col-md-1"></div>
                                            <div class="col-md-10">

                                                <?php
                                                    foreach($user1->result() as
$row)
                                                    { ?>
                                                    <address>
                                                        <strong>PT Ujung
Berung (Office)</strong><br>
                                                        <?php echo $row-
>user_alamat; ?><br>
                                                        <?php echo $row-
>user_kota;   ?> <?php echo $row->user_kodepos;   ?><br>
                                                        <i class="fa fa-
phone-square"></i> <?php echo $row->user_telepon;   ?>
                                                    </address>

                                                    <address>
```

```php
                                                    <strong><?php echo
$row->user_nama;   ?></strong><br>
                                                    <?php echo $row-
>user_role;   ?><br>
                                                    <i class="fa fa-
inbox"></i><a href="mailto:<?php echo $row->user_email;   ?>"> <?php echo
$row->user_email;   ?></a>
                                            </address>
                                        <?php
                                            }
                                        ?>

                            </div>

                        </div>
                        <div class="chart tab-pane" id="alamat-
pabrik" style="position: relative; height: 250px;">
                            <br/>
                                <div class="col-md-1"></div>
                                <div class="col-md-10">

                                    <?php
                                        foreach($user2-
>result() as $row)
                                        {  ?>
                                            <address>
                                                <strong>PT Ujung
Berung (Factory)</strong><br>
                                                <?php echo $row-
>user_alamat; ?><br>
                                                <?php echo $row-
>user_kota;   ?> <?php echo $row->user_kodepos;   ?><br>
                                                <i class="fa fa-
phone-square"></i> <?php echo $row->user_telepon;   ?>
                                            </address>

                                            <address>
                                                <strong><?php
echo $row->user_nama;   ?></strong><br>
                                                <?php echo $row-
>user_role;   ?><br>
                                                <i class="fa fa-
inbox"></i><a href="mailto:<?php echo $row->user_email;   ?>"> <?php echo
$row->user_email;   ?></a>
                                            </address>
                                        <?php
                                            }
                                        ?>

                                </div>
                            </div>
                        </div>
                    </div><!-- /.nav-tabs-custom -->


                </section><!-- right col -->
            </div><!-- /.row (main row) -->

        </section><!-- /.content -->
    </aside><!-- /.right-side -->
</div><!-- ./wrapper -->
```

```php
        <?php include 'inc/jq.php'; ?>
        <script>
            $(document).ready(function() {
                var ctx =
document.getElementById('myChart').getContext('2d');
                var chart = new Chart(ctx, {
                    // The type of chart we want to create
                    type: 'bar',
                    responsive: true,
                    mainAspectRation: false,

                    // The data for our dataset
                    data: {
                        labels: <?php echo json_encode($chart['label']) ?>,
                        datasets: [{
                            label: 'data produk',
                            backgroundColor: 'rgb(255, 99, 132)',
                            borderColor: 'rgb(255, 99, 132)',
                            data: <?php echo json_encode($chart['data']) ?>
                        }]
                    },

                    // Configuration options go here
                    options: {
                        scales: {
                            yAxes: [{
                                ticks: {
                                    beginAtZero: true,
                                    stepSize: 1,
                                }
                            }]
                        }
                    }
                });
                chart.canvas.parentNode.style.height = '100%' ;
                chart.canvas.parentNode.style.width = '100%';
            });
        </script>
    </body>
</html>
```

Pada **application/views/new-item.php** tambahkan sintaks berikut dibawah sintaks masukkan nama model:

Script 37. new-item.php

```php
<?php
<div class="form-group">
                            <label>Jumlah Produk</label>
                            <input type="number"
name="jml_produk"class="form-control" placeholder="Masukkan jumlah  ..."
required/>
                        </div>

?>
```

Lalu tambahkan juga sintaks berikut di bawah lane text area:

```php
<?php
$("#form-insert-item")[0].reset();
            $(".bs-example-modal-sm
input[name='kd_model']").val(null).attr("readonly", false);
            $(".bs-example-modal-sm
textarea[name='deskripsi']").html(null);

?>
```

Tambahkan dibawah sintaks nama model dengan script berikut:

Script 39. new-item.php

```php
<?php
$(".bs-example-modal-sm
input[name='jml_produk']").val(data.item.jml_produk);
?>
```

Berikut adalah script lengkap new-item.php setelah di tambahkan:

Script 40. new-item.php lengkap

```php
<!DOCTYPE html>
<html>

<head>
    <?php include 'inc/head.php';?>
    <script type="text/javascript" src="js/jquery.min.js"></script>

</head>

<body class="skin-blue">

    <?php include 'inc/header.php'; ?>

    <div class="wrapper row-offcanvas row-offcanvas-left">
        <?php include 'sidebar-nav.php'; ?>
    </div>

    <aside class="right-side">
        <section class="content-header">
            <h1>Kelola Produk</h1>
            <ol class="breadcrumb">
                <li><a href="<?php echo site_url('dashboard'); ?>"><i
class="fa fa-dashboard"></i> Dashboard</a></li>
                <li class="active">Produk</li>
            </ol>
        </section>

        </br>

        <div class="col-md-2">
            <!-- Small modal -->
            <div class="form-group">
                <button class="btn btn-default" data-toggle="modal" data-
target=".bs-example-modal-sm">
                    <span class="glyphicon glyphicon-plus"></span> Tambah
Model Baru
                </button>
            </div>
        </div>
```

```html
        <div class="col-md-7"></div>

        <div class="col-md-3">
            <!-- search form -->
            <form action="" method="POST">
                <div class="input-group">
                    <input type="text" id="input-kode" name="q"
class="form-control" placeholder="Masukkan kode model..." required/>
                    <span class="input-group-btn">
                        <button type='submit' name='seach' id='search-btn'
class="btn btn-flat"><i class="fa fa-search"></i></button>
                    </span>
                </div>
            </form>
            <!-- /.search form -->
        </div>

        </br>

        <!-- Modal Add Item-->
        <div class="modal fade bs-example-modal-sm" tabindex="-1"
role="dialog" aria-labelledby="mySmallModalLabel" aria-hidden="true">
            <div class="modal-dialog modal-sm">
                <div class="modal-content">
                    <div class="box box-warning">
                        <div class="box-header">
                            <h3 class="box-title">New Item </h3>
                        </div><!-- /.box-header -->
                        <div class="box-body">
                            <form id="form-insert-item" role="form">
                                <div class="form-group">
                                    <label>Kode Model</label>
                                    <input type="text" name="kd_model"
class="form-control" maxlength="4" placeholder="Kode model maksimal 4 digit
..." required/>
                                </div>
                                <div class="form-group">
                                    <label>Nama Model</label>
                                    <input type="text"
name="nama_model"class="form-control" placeholder="Masukkan nama model ..."
required/>
                                </div>
                                <div class="form-group">
                                    <label>Jumlah Produk</label>
                                    <input type="number"
name="jml_produk"class="form-control" placeholder="Masukkan jumlah  ..."
required/>
                                </div>
                                <div class="form-group">
                                    <label>Keterangan</label>
                                    <textarea name="deskripsi" class="form-
control" rows="3" placeholder="Masukkan deskripsi produk ..."></textarea>
                                </div>
                                <input type="hidden" name="method"
value="create">

                                <div class="box-footer">
                                    <button type="submit" class="btn btn-
primary">Submit</button>
                                    <button type="reset" class="btn btn-
```

```html
warning">Reset</button>
                            </div>
                        </form>
                    </div><!-- /.box-body -->
                </div><!-- /.box -->
            </div>
          </div>
        </div>

        <!-- Ajax Tambah Item / TABEL -->
        <div id='ajax_add_item'>

        </div><!--/.Ajax Tambah Item -->

    </aside>


    <?php
        include 'inc/jq.php';
    ?>

</body>

<script type="text/javascript">
    $(document).ready(function()
    {
        // menampilkan semua list agenda saat pertama kali halaman utama
diload
        $("#ajax_add_item").load("<?php echo
site_url('newitem/lihat_item_paging');?>");

        // melakukan proses tambah item ketika tombol ditekan
        $('#form-insert-item').submit(function(){
            $.ajax({
                type:'POST',
                url:"<?php echo site_url('newitem/proses_item') ?>",
                data:$(this).serialize(),
                success:function (data) {
                    $('#ajax_add_item').load("<?php echo
site_url('newitem/lihat_item_paging') ?>");
                    $('.bs-example-modal-sm').modal('hide');
                    $("#form-insert-item")[0].reset();
                    alert('success');
                },
                error:function (data){
                    alert("error");
                }
            });
            return false;
        });

        $('.bs-example-modal-sm').on('hidden.bs.modal', function () {
            $(".bs-example-modal-sm input[name='method']").val("create");
            $(".bs-example-modal-sm
input[name='kd_model']").attr("readonly", true);
            $("#form-insert-item")[0].reset();
            $(".bs-example-modal-sm
input[name='kd_model']").val(null).attr("readonly", false);
            $(".bs-example-modal-sm
textarea[name='deskripsi']").html(null);
        });
```

```
        $("#ajax_add_item").on("click", ".btn-edit", function() {
            const kode = $(this).attr("data-kode");
            $.ajax({
                type:'POST',
                url:"<?php echo site_url('newitem/show_item') ?>",
                data:{ kode: kode },
                dataType: 'JSON',
                success:function (data) {
                    if(data.item) {
                        console.log('data : ', data.item.kd_model);
                        $(".bs-example-modal-sm
input[name='kd_model']").val(data.item.kd_model).attr("readonly", true);
                        $(".bs-example-modal-sm
input[name='nama_model']").val(data.item.nama_model);
                        $(".bs-example-modal-sm
input[name='jml_produk']").val(data.item.jml_produk);
                        $(".bs-example-modal-sm
textarea[name='deskripsi']").html(data.item.deskripsi);
                        $('.bs-example-modal-sm').modal('show');
                        $(".bs-example-modal-sm
input[name='method']").val("edit");
                    }
                },
                error:function (data){
                    alert("error");
                }
            });
        })


    // melakukan proses pencarian ketika mengetikkan nama agenda
    $('#input-kode').keyup(function(){
        var kd_model = $('#input-kode').val();
        $.ajax({
            type:"POST",
            url:"<?php echo site_url('newitem/proses_cari_item');?>",
            data:'kd_model='+kd_model,
            success:function(html){
                $('#ajax_add_item').html(html);
            }
        });
    });




    }); //EO Javascript
</script>

</html>
```

Tambahkan script berikut pada **application/views/t-new-item.php** dibawah nama model:

Script 41. t-new-item.php

```
<?php
<th>Jml Produk</th>
?>
```

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Dan sintaks berikut dibawah nama model kolom tabel:

Script 42. t-new-item.php

```php
<td><?php echo $item->jml_produk;?></td>
```

Berikut adalah script lengkap t-new-item.php setelah di tambahkan:

Script 43. t-new-item.php lengkap

```php
<?php echo $this->pagination->create_links(); ?>

<div class="col-md-12">
    <div class="box box-warning">
        <div class="box-body no-padding">
            <table class="table">
                <thead>
                    <tr>
                        <th>No.</th>
                        <th>Kode Model</th>
                        <th>Nama Model</th>
                        <th>Jml Produk</th>
                        <th>Keterangan</th>
                        <th colspan='2'><div align="center">Aksi</div></th>

                    </tr>
                </thead>
                <tbody>
                    <?php $i = 1; ?>
                    <?php foreach ($daftar_item as $item) {?>
                        <tr>
                            <td><?php echo $i++; ?></td>
                            <td><?php echo $item->kd_model;?></td>
                            <td><?php echo $item->nama_model;?></td>
                            <td><?php echo $item->jml_produk;?></td>
                            <td><?php echo $item->deskripsi;?></td>
                            <td width="50"><button data-kode="<?php echo
$item->kd_model ?>" class="btn btn-primary btn-xs btn-edit"><span
class="glyphicon glyphicon-edit"></span></a></td>
                            <td width="50"><a href="<?php echo
site_url('newitem/delete_item/'.$item->kd_model);?>" class="btn btn-danger
btn-xs" onclick="return confirm('Apakah Anda yakin untuk menghapus produk
ini?');"><span class="glyphicon glyphicon-trash"></span></a></td>
                        </tr>
                    <?php } ?>
                </tbody>
            </table>
        </div>
    </div>
        <a class="btn btn-success" href="<?php echo
site_url('report');?>" role="button"><i class="fa fa-file-excel-o"></i>
Export to Excel</a>
</div>

<?php echo $this->pagination->create_links(); ?>

```
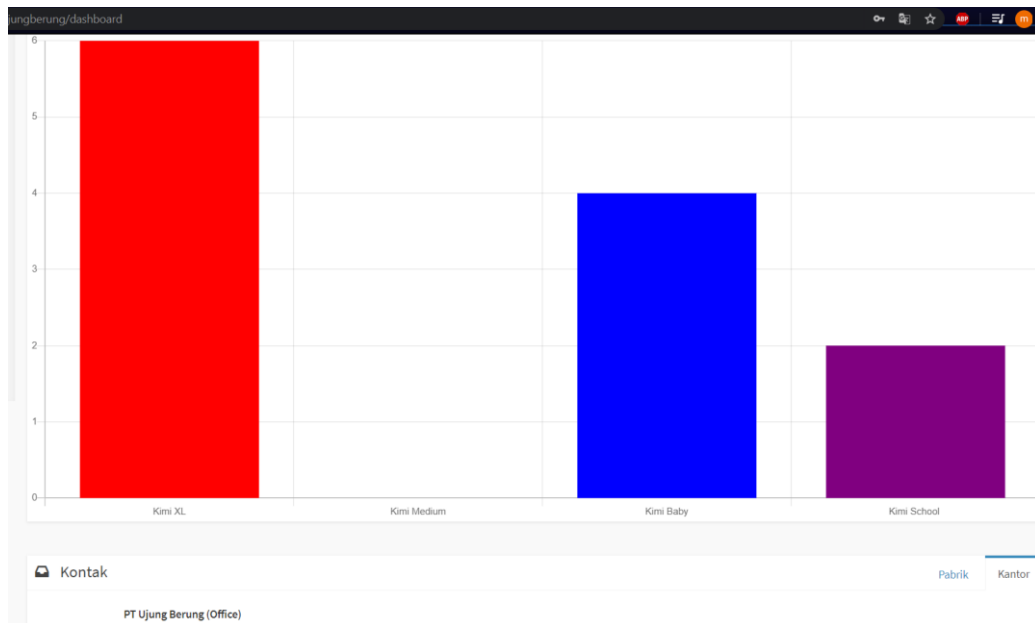
Maka hasilnya akan menjadi seperti berikut:

Gambar 7. Grafik produk