Ekattor School Management System

Complete management software for school

Developer manual

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INSTALLATION

- Upload the downloaded zip file to your server in the public_html directory.
- Extract the zip file
- Create a new database from your server mysql.
- Create user to the database and link the database to the user.
- Open the file database.php from the directory /application/config/ database.php
- Fill up these informations with your database hostname, database username, database password, database name respectively which you have created in the previous step.
- Open the file routes.php from the directory /application/config/routes.php
- Change default controller from 'install' to 'login'

```
'hostname' => '',
'username' => '',
'password' => '',
'database' => '',
```

- Now from server phpmyadmin go to your database. Select import and choose the file install.sql located in uploads/install.sql
- And you are ready to go now to browse the application.
- Default admin credentials
    - Email: admin@example.com
    - Password: 1234

Source code structure

The application is developed on CodeIgniter framework and completely follows MVC. The details of this framework can be found in http://www.codeigniter.com/

The root directory contains
- application
    contains the core files of the application

- assets
    - contains all css styles and javascript files
- system
    - contains all the configurations and library files of the framework
- uploads
    - admin_image
        - contains the profile image uploaded by admin himself
    - student_image
        - contains the uploaded images of students
    - teacher_image
        - contains the images of teachers
    - document
        - contains the study materials uploaded by teacher
- index.php
    - this file on loading calls all the codeIgniter functions

application
- config
    - contains the configuration files of the application
- controllers
    - Admin.php
    - Login.php
    - Modal.php
    - Multilanguage.php
    - Parents.php
    - Simplexlsx.class.php
    - Student.php
    - Teacher.php
- helpers
- libraries
- models
    - Crud_model.php
    - Email_model.php
    - Sms_model.php
- views
    - backend
        - admin
            - contains all the view files of admin panel
        - parent
            - contains all the view files of parent panel

- student
    - contains all the view files of student panel
- teacher
    - contains all the view files for teacher panel
- footer.php
- forgot_password.php
- header.php
- includes_bottom.php
    - contains links to javascript, jquery & library files
- includes_top.php
    - contains links to css files
- index.html
- index.php
- login.php
    - the login page
- modal.php

Source code description

Admin Controller(/application/controllers/Admin.php)

Admin dashboard:

```
21
22      // ADMIN DASHBOARD
23      function dashboard()
24      {
25          if ($this->session->userdata('admin_login') != 1)
26              redirect(base_url() . 'index.php?login');
27
28          $page_data['page_name']    =   'dashboard';
29          $page_data['page_title']   =   'Dashboard';
30          $this->load->view('index' , $page_data);
31      }
32
```

dashboard function loads the view file named dashboard.php and redirects to login page if the admin login is not true.

Manage students

function student has the ability to add, edit or delete students form the system. An email is sent to the student on creating his/her account by admin.

Manage parents

function parent has the ability to add, edit or delete parents form the system. An email is sent to the parent on creating his/her account by admin.

Manage exams

```php
/****MANAGE EXAMS*****/
function exam($param1 = '', $param2 = '' , $param3 = '')
{
    if ($this->session->userdata('admin_login') != 1)
        redirect(base_url(), 'refresh');
    if ($param1 == 'create') {
        $data['name']    = $this->input->post('name');
        $data['date']    = $this->input->post('date');
        $data['comment'] = $this->input->post('comment');
        $this->db->insert('exam', $data);
        $this->session->set_flashdata('flash_message' , get_phrase('data_added_successfully'));
        redirect(base_url() . 'index.php?admin/exam/', 'refresh');
    }
    if ($param1 == 'edit' && $param2 == 'do_update') {
        $data['name']    = $this->input->post('name');
        $data['date']    = $this->input->post('date');
        $data['comment'] = $this->input->post('comment');

        $this->db->where('exam_id', $param3);
        $this->db->update('exam', $data);
        $this->session->set_flashdata('flash_message' , get_phrase('data_updated'));
        redirect(base_url() . 'index.php?admin/exam/', 'refresh');
    } else if ($param1 == 'edit') {
        $page_data['edit_data'] = $this->db->get_where('exam', array(
            'exam_id' => $param2
        ))->result_array();
    }
    if ($param1 == 'delete') {
        $this->db->where('exam_id', $param2);
        $this->db->delete('exam');
        $this->session->set_flashdata('flash_message' , get_phrase('data_deleted'));
        redirect(base_url() . 'index.php?admin/exam/', 'refresh');
    }
    $page_data['exams']      = $this->db->get('exam')->result_array();
    $page_data['page_name']  = 'exam';
    $page_data['page_title'] = get_phrase('manage_exam');
    $this->load->view('backend/index', $page_data);
}
```

Send SMS on Exam Marks

```php
/****** SEND EXAM MARKS VIA SMS ********/
function exam_marks_sms($param1 = '' , $param2 = '')
{
    if ($this->session->userdata('admin_login') != 1)
        redirect(base_url(), 'refresh');

    if ($param1 == 'send_sms') {

        $exam_id    =   $this->input->post('exam_id');
        $class_id   =   $this->input->post('class_id');
        $receiver   =   $this->input->post('receiver');

        // get all the students of the selected class
        $students = $this->db->get_where('student' , array(
            'class_id' => $class_id
        ))->result_array();
        // get the marks of the student for selected exam
        foreach ($students as $row) {
            if ($receiver == 'student')
                $receiver_phone = $row['phone'];
            if ($receiver == 'parent' && $row['parent_id'] != '')
                $receiver_phone = $this->db->get_where('parent' , array('parent_id' => $row['parent_id']))->row()->phone;


            $this->db->where('exam_id' , $exam_id);
            $this->db->where('student_id' , $row['student_id']);
            $marks = $this->db->get('mark')->result_array();
            $message = '';
            foreach ($marks as $row2) {
                $subject        = $this->db->get_where('subject' , array('subject_id' => $row2['subject_id']))->row()->name;
                $mark_obtained = $row2['mark_obtained'];
                $message       .= $row2['student_id'] . $subject . ' : ' . $mark_obtained . ' , ';

            }
            // send sms
            $this->sms_model->send_sms( $message , $receiver_phone );
        }
        $this->session->set_flashdata('flash_message' , get_phrase('message_sent'));
        redirect(base_url() . 'index.php?admin/exam_marks_sms' , 'refresh');
    }
```

Manage Daily Attendance

The attendance module holds the commands for entering attendance status for a particular student of a particular class for a particular day

```php
/****** DAILY ATTENDANCE ******************/
function manage_attendance($date='',$month='',$year='',$class_id='')
{
    if($this->session->userdata('admin_login')!=1)redirect('login' , 'refresh');

    if($_POST)
    {
        // Loop all the students of $class_id
        $students   =   $this->db->get_where('student', array('class_id' => $class_id))->result_array();
        foreach ($students as $row)
        {
            $attendance_status  =   $this->input->post('status_' . $row['student_id']);

            $this->db->where('student_id' , $row['student_id']);
            $this->db->where('date' , $this->input->post('date'));

            $this->db->update('attendance' , array('status' => $attendance_status));
        }

        $this->session->set_flashdata('flash_message' , get_phrase('data_updated'));
        redirect(base_url() . 'index.php?admin/manage_attendance/'.$date.'/'.$month.'/'.$year.'/'.$class_id , 'refresh');
    }
    $page_data['date']     =   $date;
    $page_data['month']    =   $month;
    $page_data['year']     =   $year;
    $page_data['class_id'] =   $class_id;

    $page_data['page_name']  =   'manage_attendance';
    $page_data['page_title'] =   get_phrase('manage_daily_attendance');
    $this->load->view('backend/index', $page_data);
}
function attendance_selector()
{
    redirect(base_url() . 'index.php?admin/manage_attendance/'.$this->input->post('date').'/'.
                $this->input->post('month').'/'.
                    $this->input->post('year').'/'.
                        $this->input->post('class_id') , 'refresh');
}
```

Private Messaging

The messaging function holds the commands for sending messages to the users of the system. Its made in such a way that the communicating persons can transfer message privately only between them.

Profile Settings

function profile_settings holds the logical expressions for
- updating current profile informations.
- uploading a profile picture.
- updating or changing login password.

<u>System settings</u>

function settings holds the logical expressions for
- updating system informations like company name or email and other system informations.
- uploading a company logo.
- Changing system themes

The Model Files (/application/models)

models
- Crud_model.php
contains the basic functions for create, retrieve, update and delete which works in association of controllers or views.
- Email_model.php
contains the functions that send email on different events.
- Sms_model.php
contains the functions that send SMS on different events.

The View Files (/application/views)

views
- admin
contains all the view files of admin panel
- parent
contains all the view files of parent panel
- student
contains all the view files of student panel
- teacher
contains all the view files of teacher panel
- footer.php
contains the footer informations of the application

- forgot_password.php
    page for resetting password by email
- header.php
    contains the header view of the application
- includes_bottom.php
    contains links to javascript files
- includes_top.php
    contains links to css files
- index.html

- index.php
    includes the footer, header, javascript, css, modals at
    the time of page loading.
- login.php
    the login page
- modal.php
    contains the modal views which are used in the view of
different panels.