

REPORT MANUAL OF MIDTERM EXPLANATION AND TUTORIAL (ADVANCED WEB PROGRAMMING)

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CI Admin (Using Code Igniter Rest Api)

Posting Data to database using Restful:

Posting data is described By the function index_get():

```
Menampilkan data kontak
function index_get() {
    $id = $this->get('item_id');
    $type = $this->get('inst_type');
    if ($id == null and $type == null) {
        $item = $this->item->getItem();
    } else if($id != null and $type == null){
        $item = $this->item->getItem($id);
    } else if ($id == null and $type != null){
        $item = $this->item->getItemByType($type);
    if($item){
        $this->response([]
            'status' => true,
            'data'=> $item
        ], REST_Controller::HTTP_OK);
    else{
        $this->response([
            'status' =>false,
            'message'=>'id not found'
        ], REST_Controller::HTTP_NOT_FOUND);
```

We can Get Items by item_id or by instrument_type: The model is:

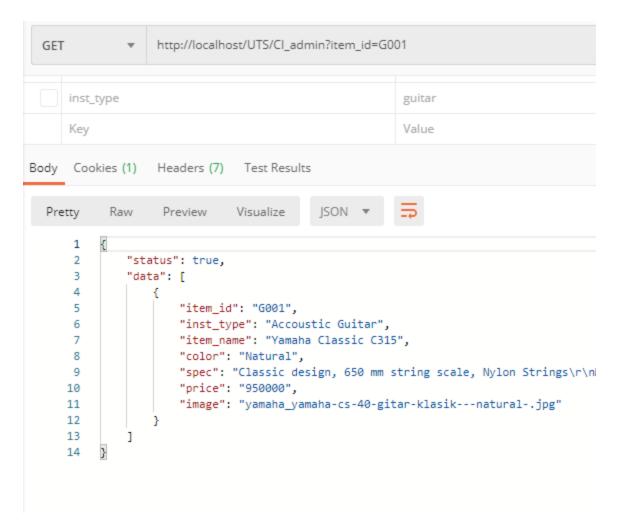
```
public function getItem($id = null)
{
    if($id === null){
        return $this->db->get('item')->result_array();
    } else{
        return $this->db->get_where('item', ['item_id'=>$id])->result_array();
    }
}

public function getItemByType($id = null)
{
    if($id === null){
        return $this->db->get('item')->result_array();
    } else{
        // return $this->db->get_where('item', ['inst_type'=>$id])->result_array();
        $this->db->like('inst_type',$id);
        return $this->db->get('item')->result_array();
    }
}
```

If the key is left Blank, then we will get all the items:

```
GET
                 http://localhost/UTS/CI_admin
                                         JSON ▼
Pretty
          Raw
                  Preview
                             Visualize
    1
    2
            "status": true,
    3
            "data": [
    4
    5
                    "item_id": "G001",
    6
                    "inst_type": "Accoustic Guitar",
                    "item_name": "Yamaha Classic C315",
    7
                    "color": "Natural",
    8
                    "spec": "Classic design, 650 mm string scale, Nylon Strings\r\nMaterial: Spruce, Aga
    9
                    "price": "950000",
   10
                    "image": "yamaha_yamaha-cs-40-gitar-klasik---natural-.jpg"
   11
   12
                },
   13
   14
                    "item id": "G002",
   15
                    "inst_type": "Mini Guitar",
   16
                    "item_name": "Yamaha GL-1",
                    "color": "Black",
   17
                    "spec": "Matte Finish Body, String Scale String 433 mm (17 \"), Body Depth 70-70 mm
   18
                       Finger Board Width (Nut / Body)\r\nTop Spruce",
                    "price": "725000",
   19
   20
                    "image": "yamaha-gl1.jpg"
   21
                },
   22
                    "item_id": "G003",
   23
                    "inst_type": "Accoustic Guitar",
   24
                    "item_name": "Yamaha FS 100 C ",
   25
                    Harman Hotelan
```

If the Key is item_id, then we will get the id entered like in this exmple:



If the inst_type is filled, then we will get all the instruments that match that cinstrument type like in this example:

```
GET
                 http://localhost/UTS/CI_admin?inst_type=guitar
                                         JSON ▼
Pretty
         Raw
                  Preview
                             Visualize
    1
    2
            "status": true,
            "data": [
    3
    4
    5
                    "item_id": "G001",
                    "inst_type": "Accoustic Guitar",
                    "item_name": "Yamaha Classic C315",
    7
    8
                    "color": "Natural",
    9
                    "spec": "Classic design, 650 mm string scale, Nylon Strings\r\nMaterial: Spruce, Agathis
                    "price": "950000",
   10
                    "image": "yamaha_yamaha-cs-40-gitar-klasik---natural-.jpg"
   11
   12
                },
   13
   14
                    "item_id": "G002",
                    "inst_type": "Mini Guitar",
   15
   16
                    "item_name": "Yamaha GL-1",
                    "color": "Black",
   17
                    "spec": "Matte Finish Body, String Scale String 433 mm (17 \"), Body Depth 70-70 mm (2 1
   18
                      Finger Board Width (Nut / Body)\r\nTop Spruce",
                    "price": "725000",
   19
                    "image": "yamaha-gl1.jpg"
   20
   21
                },
   22
                    "item_id": "G003",
   23
   24
                    "inst_type": "Accoustic Guitar",
                    "item_name": "Yamaha FS 100 C ",
   25
                    H--1--H. HD1--HH
```

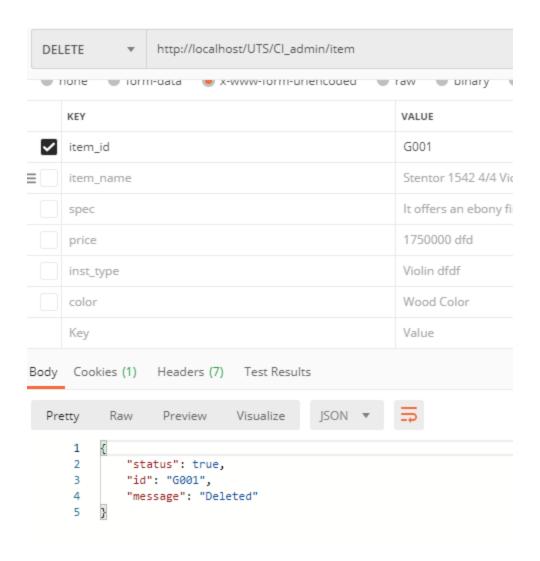
Deleting records are done by this code:

```
public function index_delete(){
    $id=$this->delete('item_id');
    if($id === null){
        $this->response([
            'status' =>false,
            'message' =>'Provide an Id!'
        ], REST_Controller::HTTP_BAD_REQUEST);
    } else{
        if($this->item->deleteItem($id) > 0){
            $this->response([
                'status' => true,
                'id' => $id,
                'message'=> 'Deleted'
            ], REST_Controller::HTTP_OK);
        } else{
            $this->response([
                'status' =>false,
                'message'=>'id not found'
            ], REST_Controller::HTTP_BAD_REQUEST);
```

The model for delete is:

```
public function deleteItem($id){
    $this->db->delete('item',['item_id' => $id]);
    return $this->db->affected_rows();
}
```

The deletion must be done by item_id like in this example:



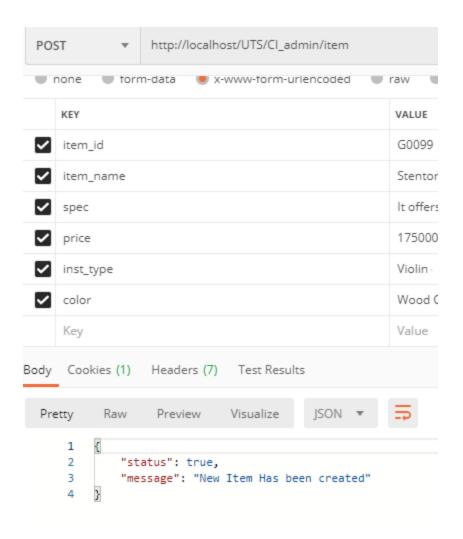
Creating a new record in the database is as follows:

```
public function index_post(){
   $data =[
        'item id' => $this->post('item_id'),
        'inst_type' => $this->post('inst_type'),
        'item_name' => $this->post('item_name'),
        'color' => $this->post('color'),
        'spec' => $this->post('spec'),
        'price' => $this->post('price'),
        'image' => $this->post('image'),
    ];
    if($this->item->createItem($data) > 0){
        $this->response([
            'status' => true,
            'message'=> 'New Item Has been created'
        ], REST_Controller::HTTP_CREATED);
    } else{
        $this->response([
            'status' =>false,
            'message'=>'Failed To create a New Data'
        ], REST_Controller::HTTP_BAD_REQUEST);
```

The Model for creating is:

```
public function createItem($data){
    $this->db->insert('item',$data);
    return $this->db->affected_rows();
}
```

And the results are:



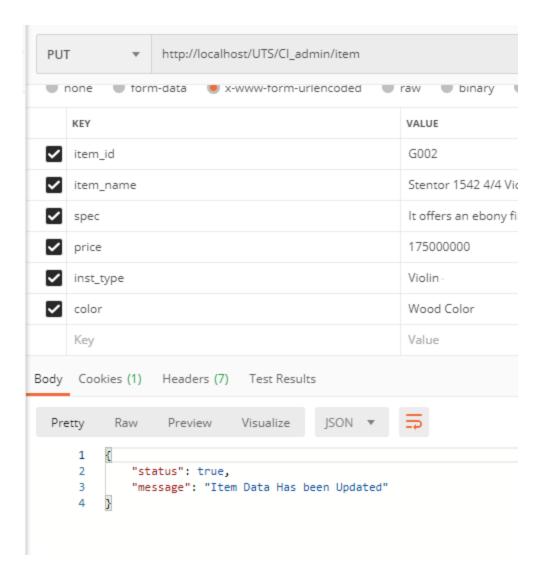
Updating a record inside the database is as follows:

```
public function index put(){
    $id= $this->put('item_id');
    $data =[
        'item id' => $this->put('item_id'),
        'inst_type' => $this->put('inst_type'),
        'item name' => $this->put('item name'),
        'color' => $this->put('color'),
        'spec' => $this->put('spec'),
        'price' => $this->put('price'),
        'image' => $this->post('image'),
    ];
    if($this->item->updateItem($data, $id) > 0){
        $this->response([
            'status' => true,
            'message'=> 'Item Data Has been Updated'
        ], REST_Controller::HTTP_OK);
    } else{
        $this->response([
            'status' =>false,
            'message'=>'Failed To Update Data'
        ], REST Controller::HTTP BAD REQUEST);
```

The Model for Update is:

```
public function updateItem( $data, $id){
    $this->db->update('item',$data ,['item_id' => $id]);
    return $this->db->affected_rows();
}
```

The result in Postman is:



CI Client (Using code igniter php)

I. Database



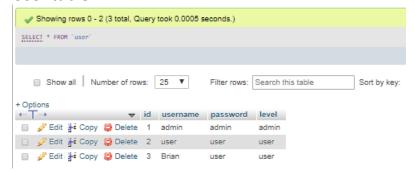
The database name is Musicdb and it contains 2 table, item and user

• Table Item



Table item containt the instrument that the music shop will sell, the item table contain item_id, instrument type, instrument name, color of the instrument, spec or description per item, price, and image for instrument

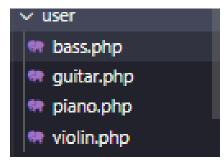
User table



From this user table is contain the user that login in the music shop store

III. Codelgniter user

1. Controller



There are some controllers in our CI user, the controller is separated the types of the music item database, because at the database the item is put together, we separate it per type to get the user more comfortable and easier to find some instrument

2. Controller Code

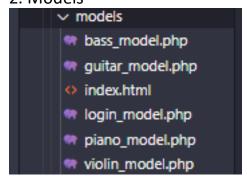
```
<?php
    defined('BASEPATH') OR exit('No direct script access allowed');
    class guitar extends CI_Controller {
        public function __construct()
        {
        parent::__construct();
        $this->load->helper('url');
       $this->load->helper('form');
        $this->load->model('login model');
        $this->load->model('guitar_model');
        if($this->session->userdata('level')!="user"){
            redirect('login','refresh');
       }
        public function index()
            $data['title']='MUSIC SHOP';
            $data['name']='$name';
            $data['guitar'] = $this->guitar model->getGuitarData();
```

```
if($this->input->post('keyword')){
            $data['guitar']=$this->guitar model->searchData();
        $this->load->view('template/header_user', $data);
        $this->load->view('user/guitar/index', $data);
        $this->load->view('template/footer_user');
    }
    public function detail($id)
    {
        $data['title']='Detail Data';
        $data['guitar'] = $this->guitar model->getGuitarID($id);
        $this->load->view('template/header user', $data);
        $this->load->view('user/guitar/detail', $data);
        $this->load->view('template/footer_user');
    }
}
/* End of file guitar.php */
```

From this we can see this is the guitar controller, its contain to control the gitar views only. Because this is only user website, the controller only containt get data and detail per item only.

All of controller is same but the different is only at the models. Per controller have their own models (will be discussed next) for exampel guitar have guitar model, bass have bass model, etc.

2. Models



```
defined('BASEPATH') OR exit('No direct script access allowed');
   class guitar model extends CI Model {
        public function getGuitarData()
        {
            $this->db->like('item_id','g');
            $this->db->or_like('item_id','u');
            return $this->db->get('item')->result_array();
        }
        public function getGuitarID($id)
            return $this->db->get_where('item', ['item_id'=> $id])-
>row_array();
        public function searchData()
            $keyword=$this->input->post('keyword');
            $this->db->like('item_name', $keyword);
            return $this->db->get('item')->result_array();
        }
```

From This we can see the guitar model, from this guitar model, only get the data from database and get the id of the data. You can see at the guitar data there are

This code is to get only the guitar type to display at the website All of the models type are same but the different is at the get data, the get data is per type or per name

3.Views

```
vuser

bass

detail.nhn

inde E:\TUGAS\X

guitar

detail.php

index.php

piano

detail.php

index.php

violin

detail.php

index.php

violin

detail.php

index.php
```

1. views code

```
<div class="container">
<div class="row mt-3">
    <div class="col-md-20">
        <h2 style="color: white">Guitar List</h2>
        <div class="row mt-2">
            <?php foreach($guitar as $gtr): ?>
                <?php
 to 75 Char only
    if (strlen($gtr['spec']) > 75) {
        $gtr['spec'] = substr($gtr['spec'], 0, 75) . "...";
      }
    ?>
    <!-- Card Content -->
            <div class="col-md-4">
                <div class="card-group">
                    <div class="card text-white bg-dark border-</pre>
danger mb-3 " style="width: 18rem;">
```

```
<img class="card-img-</pre>
top" src="<?php echo base_url().'assets/img/'.$gtr['image'] ?>" alt="
Card image cap">
                  <div class="card-body">
                  <h5 class="card-title text-</pre>
white"><?php echo $gtr['item name']; ?></h5>
                  text"><?php echo $gtr['spec']; ?>
                   <a href="<?= base url(); ?>user/guitar/detail/<?=</pre>
<div class="card-footer text-white">
                              <small class="text-muted text-</pre>
white">Instrument Type : <?php echo $gtr['inst_type']; ?> <br></small>
                              <small class="text-muted text-</pre>
white">Item Id :<?php echo $gtr['item_id'];?> </small>
                          </div>
               </div>
           </div>
       </div>
   </div>
   <!-- End of card content -->
   <?php endforeach; ?>
   </div>
```

This are the guitar/index.php views. From this we set the views to card, the card itslef will displat item image, item name, spec, and the item id, from this card we can see the detailed information of per item. All of the views is same, the different is at the foreach of the data

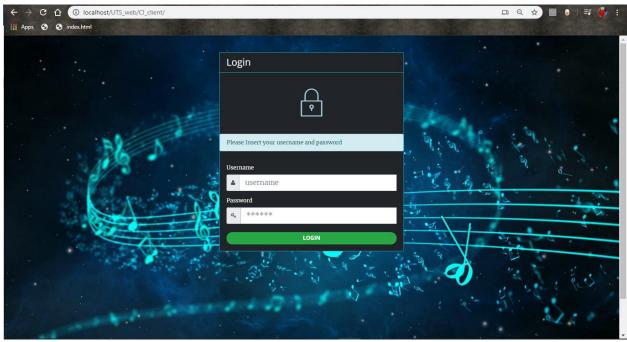
2.Detail views

```
<h5 class="card-
title"><?= $guitar['item_name']; ?></h5>
                 <label for=""><b>Instrument Type</b> : </label</pre>
                    <?= $guitar['inst_type'];?>
                 <label for=""><b>Color</b> : </label>
                    <?= $guitar['color'];?>
                 <label for=""><b>Spesification</b> : </label>
                    <?= $guitar['spec'];?>
                 <label for=""><b>Price</b> : Rp.</label>
                    <?= $guitar['price'];?>
                 <a href="<?= base_url();?>user/guitar" class="btn
btn-info">Go back</a>
             </div>
          </div>
          <!-- End of card content -->
      </div>
   </div>
</div>
```

The detail view, contain the data of the item itself, the data will describe all of the information that user needs

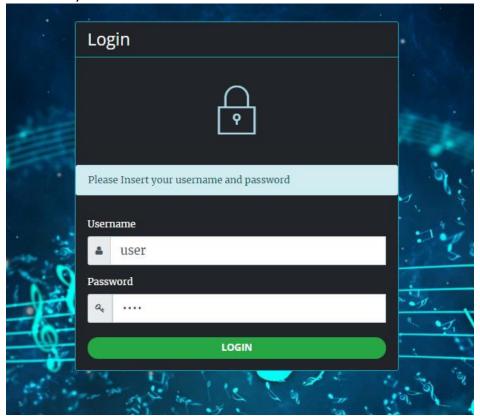
TUTORIAL OF USER

1. First open your web browser and write this url: http://localhost/UTS web/CI client/ The url will automatically routes you to the login, because the login is default controller (but first thing dont forget copy the CI folder into htdocs at xampp folder and import the database to the phpmyadmin)

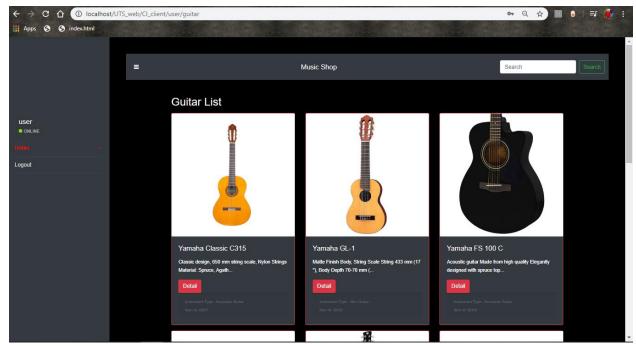


It will popped up interface like this.

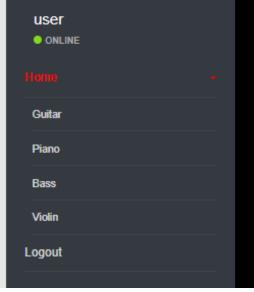
2. Input the user name and password and then click login. For example username is **user** and password is **user** (the username and password is get from the database)



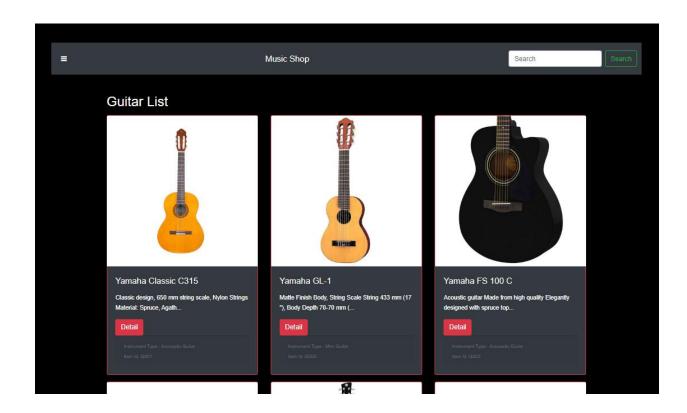
3. After you logged in, it will popped up like this



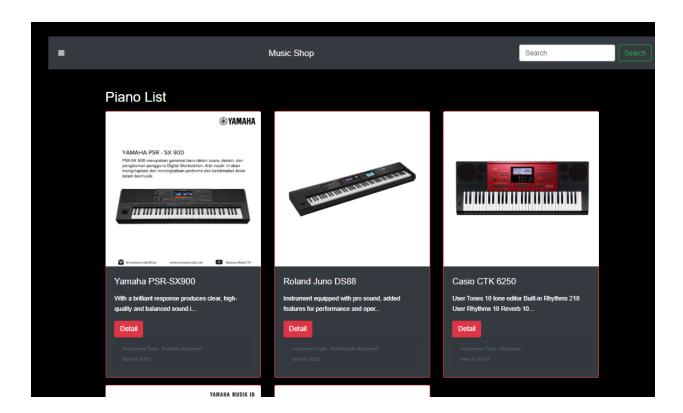
4. You can search the instrument type in this side bar



Per side bar will give you some information of instrument per type For example the guitar, it will guitar list only



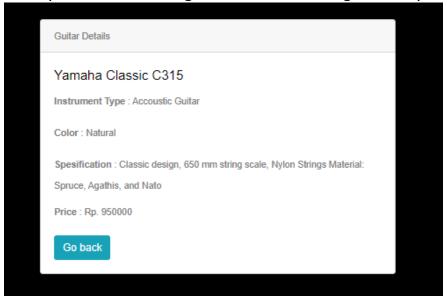
Piano list



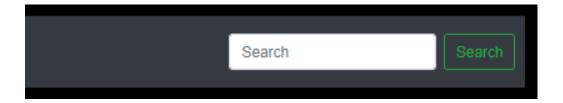
5. From this you can see the detail per item, just by click the detail button



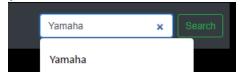
If you click it, it will popped up the detailed version of the instrument, after you done you can click the "go back" button and go to the your last opened list

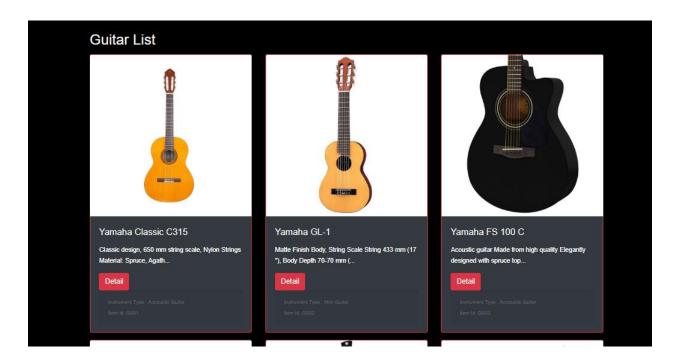


6. You can search the instrument that you want, by search it the name of the instrument itself at the navbar



For example i search for yamaha, and it will popped up the instrument with yamaha name

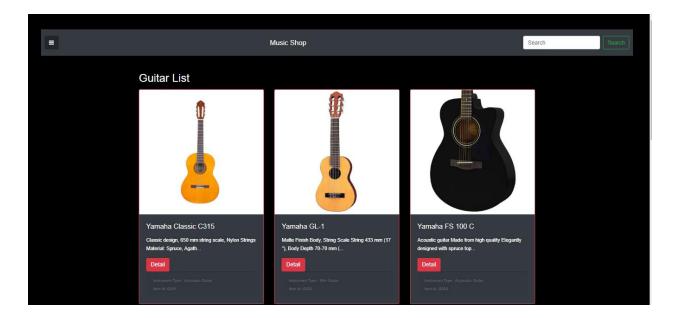




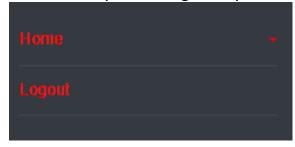
7. if you disturbed by the side bar, you can hide it by click the toogle menu at the side bar



And the sidebar is hidden



8. after that you can logout if you done it (logout is at the side bar)



If you click it you will back at the login page.