**Simple PHP Jquery Ajax CRUD(insert update delete) tutorial example with source code**

In this example i used several jquery Plugin for fire Ajax, Ajax pagination, Bootstrap, Bootstrap Validation, notification as listed bellow.

**1.Jquery**

**2.Bootstrap**

**3.twbsPagination js**

**4.Validator JS(**[**Bootstrap form validation example with demo using validator.js plugin**](http://itsolutionstuff.com/post/bootstrap-form-validation-example-with-demo-using-validatorjs-pluginexample.html)**)**

**5.toastr JS(**[**Jquery notification popup box example using toastr JS plugin with demo**](http://itsolutionstuff.com/post/jquery-notification-popup-box-example-using-toastr-js-plugin-with-demoexample.html)**)**

this simple ajax crud example, i created "Item Management" with you can do several option like as bellow:

**1. Item Listing**

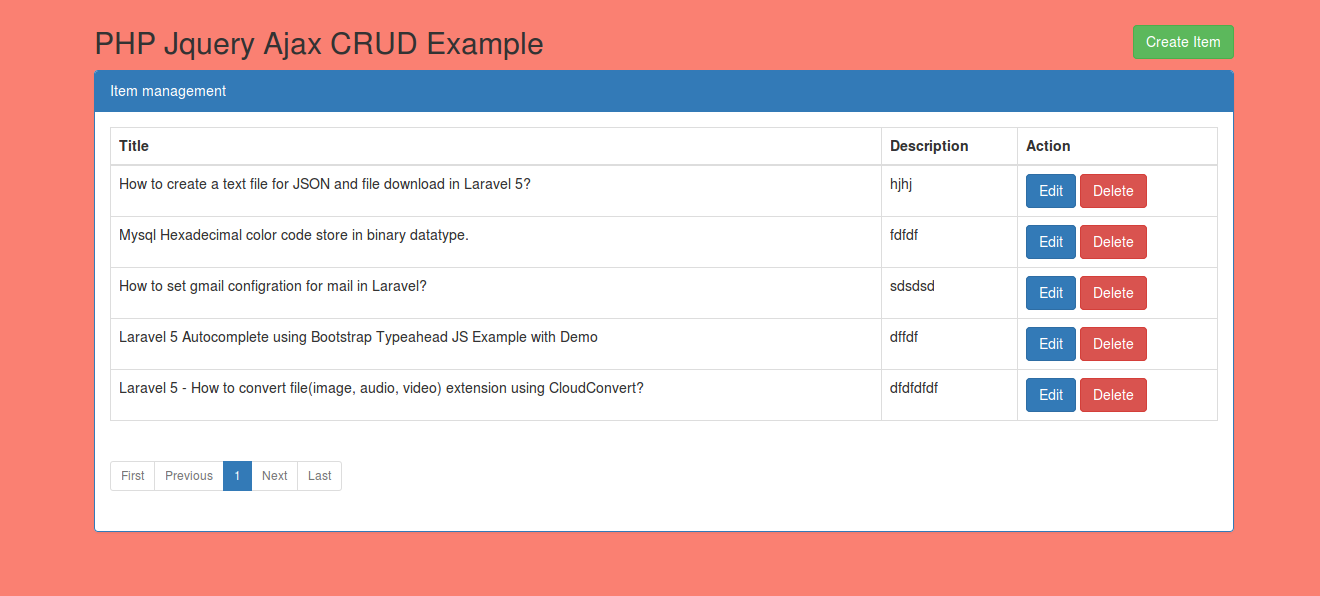
**2. Item Create**

**3. Item Edit**

**4. Item Delete**

you can implement crud application from scratch, so no worry if you can implement through bellow simple step. After create successful example, you will find layout as bellow:

**Preview:**



**Step 1: Create items table and DB Config file**

In first step we should create database and items table. so let's create database i did create "h\_blog" database and "items" table inside that database. so you can create database as you want but you have to create "items" table if you are doing from scratch. so create "items" table using following mysql query:

**Items Table Query:**

CREATE TABLE IF NOT EXISTS `items` (

`id` **int**(10) **unsigned** NOT NULL AUTO\_INCREMENT,

`title` varchar(255) COLLATE utf8\_unicode\_ci NOT NULL,

`description` text COLLATE utf8\_unicode\_ci NOT NULL,

`created\_at` timestamp NULL DEFAULT NULL,

`updated\_at` timestamp NULL DEFAULT NULL,

PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci AUTO\_INCREMENT=63 ;

In Above file please make sure to check your batabase configuration because could problem you find somewhere. that's way i tell you check it two times. It was just for your kind information.

**Step 2: Create index.php File**

Ok, now we also require to create index.php file in our root directory. In this file i added "url" variable in js for site root URL. You can update also with your site URL. so let's create index.php file and put bellow content in that file.

**index.php**

<!DOCTYPE html>

**<html>**

**<head>**

**<title>**PHP Jquery Ajax CRUD Example**</title>**

**<link** **rel**="stylesheet" **type**="text/css" **href**="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"**>**

**<script** **type**="text/javascript" **src**="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.1.0/jquery.js"**></script>**

**<script** **type**="text/javascript" **src**="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.0.0-alpha/js/bootstrap.min.js"**></script>**

**<script** **type**="text/javascript" **src**="https://cdnjs.cloudflare.com/ajax/libs/twbs-pagination/1.3.1/jquery.twbsPagination.min.js"**></script>**

**<script** **src**="https://cdnjs.cloudflare.com/ajax/libs/1000hz-bootstrap-validator/0.11.5/validator.min.js"**></script>**

**<script** **type**="text/javascript" **src**="//cdnjs.cloudflare.com/ajax/libs/toastr.js/latest/js/toastr.min.js"**></script>**

**<link** **href**="//cdnjs.cloudflare.com/ajax/libs/toastr.js/latest/css/toastr.min.css" **rel**="stylesheet"**>**

**<script** **type**="text/javascript"**>**

**var** url = "http://localhost:8000/";

**</script>**

**<script** **src**="/js/item-ajax.js"**></script>**

**</head>**

**<body>**

**<div** **class**="container"**>**

**<div** **class**="row"**>**

**<div** **class**="col-lg-12 margin-tb"**>**

**<div** **class**="pull-left"**>**

**<h2>**PHP Jquery Ajax CRUD Example**</h2>**

**</div>**

**<div** **class**="pull-right"**>**

**<button** **type**="button" **class**="btn btn-success" **data-toggle**="modal" **data-target**="#create-item"**>**

Create Item

**</button>**

**</div>**

**</div>**

**</div>**

**<table** **class**="table table-bordered"**>**

**<thead>**

**<tr>**

**<th>**Title**</th>**

**<th>**Description**</th>**

**<th** **width**="200px"**>**Action**</th>**

**</tr>**

**</thead>**

**<tbody>**

**</tbody>**

**</table>**

**<ul** **id**="pagination" **class**="pagination-sm"**></ul>**

<!-- Create Item Modal -->

**<div** **class**="modal fade" **id**="create-item" **tabindex**="-1" **role**="dialog" **aria-labelledby**="myModalLabel"**>**

**<div** **class**="modal-dialog" **role**="document"**>**

**<div** **class**="modal-content"**>**

**<div** **class**="modal-header"**>**

**<button** **type**="button" **class**="close" **data-dismiss**="modal" **aria-label**="Close"**><span** **aria-hidden**="true"**>**×**</span></button>**

**<h4** **class**="modal-title" **id**="myModalLabel"**>**Create Item**</h4>**

**</div>**

**<div** **class**="modal-body"**>**

**<form** **data-toggle**="validator" **action**="api/create.php" **method**="POST"**>**

**<div** **class**="form-group"**>**

**<label** **class**="control-label" **for**="title"**>**Title:**</label>**

**<input** **type**="text" **name**="title" **class**="form-control" **data-error**="Please enter title." **required** **/>**

**<div** **class**="help-block with-errors"**></div>**

**</div>**

**<div** **class**="form-group"**>**

**<label** **class**="control-label" **for**="title"**>**Description:**</label>**

**<textarea** **name**="description" **class**="form-control" **data-error**="Please enter description." **required></textarea>**

**<div** **class**="help-block with-errors"**></div>**

**</div>**

**<div** **class**="form-group"**>**

**<button** **type**="submit" **class**="btn crud-submit btn-success"**>**Submit**</button>**

**</div>**

**</form>**

**</div>**

**</div>**

**</div>**

**</div>**

<!-- Edit Item Modal -->

**<div** **class**="modal fade" **id**="edit-item" **tabindex**="-1" **role**="dialog" **aria-labelledby**="myModalLabel"**>**

**<div** **class**="modal-dialog" **role**="document"**>**

**<div** **class**="modal-content"**>**

**<div** **class**="modal-header"**>**

**<button** **type**="button" **class**="close" **data-dismiss**="modal" **aria-label**="Close"**><span** **aria-hidden**="true"**>**×**</span></button>**

**<h4** **class**="modal-title" **id**="myModalLabel"**>**Edit Item**</h4>**

**</div>**

**<div** **class**="modal-body"**>**

**<form** **data-toggle**="validator" **action**="api/update.php" **method**="put"**>**

**<input** **type**="hidden" **name**="id" **class**="edit-id"**>**

**<div** **class**="form-group"**>**

**<label** **class**="control-label" **for**="title"**>**Title:**</label>**

**<input** **type**="text" **name**="title" **class**="form-control" **data-error**="Please enter title." **required** **/>**

**<div** **class**="help-block with-errors"**></div>**

**</div>**

**<div** **class**="form-group"**>**

**<label** **class**="control-label" **for**="title"**>**Description:**</label>**

**<textarea** **name**="description" **class**="form-control" **data-error**="Please enter description." **required></textarea>**

**<div** **class**="help-block with-errors"**></div>**

**</div>**

**<div** **class**="form-group"**>**

**<button** **type**="submit" **class**="btn btn-success crud-submit-edit"**>**Submit**</button>**

**</div>**

**</form>**

**</div>**

**</div>**

**</div>**

**</div>**

**</div>**

**</body>**

**</html>**

**Step 3: Create JS File**

In this step we will create jquery file and write ajax request code on it. So first create **js** folder on your root directory and then create item-ajax.js file on it.

**js/item-ajax.js**

$( document ).ready(**function**() {

**var** page = 1;

**var** current\_page = 1;

**var** total\_page = 0;

**var** is\_ajax\_fire = 0;

manageData();

/\* manage data list \*/

**function** manageData() {

$.ajax({

dataType: 'json',

url: url+'api/getData.php',

data: {page:page}

}).done(**function**(data){

total\_page = Math.ceil(data.total/10);

current\_page = page;

$('#pagination').twbsPagination({

totalPages: total\_page,

visiblePages: current\_page,

onPageClick: **function** (event, pageL) {

page = pageL;

**if**(is\_ajax\_fire != 0){

getPageData();

}

}

});

manageRow(data.data);

is\_ajax\_fire = 1;

});

}

/\* Get Page Data\*/

**function** getPageData() {

$.ajax({

dataType: 'json',

url: url+'api/getData.php',

data: {page:page}

}).done(**function**(data){

manageRow(data.data);

});

}

/\* Add new Item table row \*/

**function** manageRow(data) {

**var** rows = '';

$.each( data, **function**( key, value ) {

rows = rows + '<tr>';

rows = rows + '<td>'+value.title+'</td>';

rows = rows + '<td>'+value.description+'</td>';

rows = rows + '<td data-id="'+value.id+'">';

rows = rows + '<button data-toggle="modal" data-target="#edit-item" class="btn btn-primary edit-item">Edit</button> ';

rows = rows + '<button class="btn btn-danger remove-item">Delete</button>';

rows = rows + '</td>';

rows = rows + '</tr>';

});

$("tbody").html(rows);

}

/\* Create new Item \*/

$(".crud-submit").click(**function**(e){

e.preventDefault();

**var** form\_action = $("#create-item").find("form").attr("action");

**var** title = $("#create-item").find("input[name='title']").val();

**var** description = $("#create-item").find("textarea[name='description']").val();

**if**(title != '' && description != ''){

$.ajax({

dataType: 'json',

type:'POST',

url: url + form\_action,

data:{title:title, description:description}

}).done(**function**(data){

$("#create-item").find("input[name='title']").val('');

$("#create-item").find("textarea[name='description']").val('');

getPageData();

$(".modal").modal('hide');

toastr.success('Item Created Successfully.', 'Success Alert', {timeOut: 5000});

});

}**else**{

alert('You are missing title or description.')

}

});

/\* Remove Item \*/

$("body").on("click",".remove-item",**function**(){

**var** id = $(**this**).parent("td").data('id');

**var** c\_obj = $(**this**).parents("tr");

$.ajax({

dataType: 'json',

type:'POST',

url: url + 'api/delete.php',

data:{id:id}

}).done(**function**(data){

c\_obj.remove();

toastr.success('Item Deleted Successfully.', 'Success Alert', {timeOut: 5000});

getPageData();

});

});

/\* Edit Item \*/

$("body").on("click",".edit-item",**function**(){

**var** id = $(**this**).parent("td").data('id');

**var** title = $(**this**).parent("td").prev("td").prev("td").text();

**var** description = $(**this**).parent("td").prev("td").text();

$("#edit-item").find("input[name='title']").val(title);

$("#edit-item").find("textarea[name='description']").val(description);

$("#edit-item").find(".edit-id").val(id);

});

/\* Updated new Item \*/

$(".crud-submit-edit").click(**function**(e){

e.preventDefault();

**var** form\_action = $("#edit-item").find("form").attr("action");

**var** title = $("#edit-item").find("input[name='title']").val();

**var** description = $("#edit-item").find("textarea[name='description']").val();

**var** id = $("#edit-item").find(".edit-id").val();

**if**(title != '' && description != ''){

$.ajax({

dataType: 'json',

type:'POST',

url: url + form\_action,

data:{title:title, description:description,id:id}

}).done(**function**(data){

getPageData();

$(".modal").modal('hide');

toastr.success('Item Updated Successfully.', 'Success Alert', {timeOut: 5000});

});

}**else**{

alert('You are missing title or description.')

}

});

});

**Step 4: Create API File**

In this step we require to create api file for getting item Data, Add item Data, update item Data and delete item Data. So let's create api file one by one.

**api/getData.php**

<?php

require 'db\_config.php';

$num\_rec\_per\_page = 5;

**if** (isset($\_GET["page"])) { $page = $\_GET["page"]; } **else** { $page=1; };

$start\_from = ($page-1) \* $num\_rec\_per\_page;

$sqlTotal = "SELECT \* FROM items";

$sql = "SELECT \* FROM items Order By id desc LIMIT $start\_from, $num\_rec\_per\_page";

$result = $mysqli->query($sql);

**while**($row = $result->fetch\_assoc()){

$json[] = $row;

}

$data['data'] = $json;

$result = mysqli\_query($mysqli,$sqlTotal);

$data['total'] = mysqli\_num\_rows($result);

echo json\_encode($data);

?>

**api/create.php**

<?php

**require** 'db\_config.php';

$post = $\_POST;

$sql = "INSERT INTO items (title,description)

VALUES ('".$post['title']."','".$post['description']."')";

$result = $mysqli->query($sql);

$sql = "SELECT \* FROM items Order by id desc LIMIT 1";

$result = $mysqli->query($sql);

$data = $result->fetch\_assoc();

echo json\_encode($data);

?>

**api/update.php**

<?php

**require** 'db\_config.php';

$id = $\_POST["id"];

$post = $\_POST;

$sql = "UPDATE items SET title = '".$post['title']."'

,description = '".$post['description']."'

WHERE id = '".$id."'";

$result = $mysqli->query($sql);

$sql = "SELECT \* FROM items WHERE id = '".$id."'";

$result = $mysqli->query($sql);

$data = $result->fetch\_assoc();

echo json\_encode($data);

?>

**api/delete.php**

<?php

**require** 'db\_config.php';

$id = $\_POST["id"];

$sql = "DELETE FROM items WHERE id = '".$id."'";

$result = $mysqli->query($sql);

echo json\_encode([$id]);

?>

**Step 5: Run Example**