

CIS-355: CodeIgniter

This tutorial uses Cloud9 username: mdroof. You must use your own Cloud9 username. The MySQL username is ci_crud, not the Cloud9 username.

Video 1: Setup Cloud9

1. Cloud9: go to c9.io and create new PHP workspace called ci_crud
2. Google (in browser): "grocerycrud" and download stable version (www.grocerycrud.com)
3. Google (in browser): "codeigniter" and download current version
4. Merge zip files (in Windows) into one zip file called crud.zip (merging the zip files simplifies unzipping process in Cloud9 later)
5. Copy merged zip file to cloud9
6. Unzip (in terminal in Cloud9): **unzip crud.zip**
7. Click: Run project
8. Click on link: <https://ci-crud-mdroof.c9.io> (You should see "Welcome to CodeIgniter")

Video 2: Setup MySQL

1. Type (in terminal window in Cloud9): **phpmyadmin-ctl install** (This is specific to Cloud9)
2. Click on link to phpmyadmin: <https://ci-crud-mdroof.c9.io/phpmyadmin>
3. Log in using Username: mdroof (your Cloud9 username), Password: (blank)
4. Click: Users tab
5. Click: Add User (username: ci_crud, host: localhost, password: password, and check "create database with the same name" and "grant all privileges" checkboxes and "Global privileges (Check all)"... then click Go button). You should see new ci_crud database in left column
6. Click on ci_crud database in left column
7. Under Create table, enter Name: customers (Enter 4 columns)
8. Create fields as follows: **id**, INT, check A_I for auto_increment; **name**, VARCHAR(255); **status**, VARCHAR(255); **image**, VARCHAR(255), check Null, then click Save button

Video 3: Setup Customers.php Controller

1. In Cloud9: Edit file: application/config/database.php ('hostname' => 'localhost', 'username' => 'ci_crud', 'password' => 'password', 'database' => 'ci_crud') Control-s saves file.
2. Open file: application/controllers/examples.php to see sample code
3. Cloud9: rename file: capitalize file name and class of example.php (to Example.php)
4. Create new file: application/controllers/Customers.php
5. Copy first 70 lines of Example.php into Customers.php
6. Add a closing curly brace, }, at end of Customers.php
7. Rename class Examples to Customers
8. Rename function _example_output() to function show_output() (throughout code)
9. Remove all lines code of function offices_management()
10. Remove all lines code of function offices()
11. Comment out the contents of function index()
12. Rename function employees_management() to display()
13. Within function display()
 - a. Remove line of code containing: set_theme

- b. Change `$crud->set_table('employees')` to `$crud->set_table('customers')->columns('name','status','image')`
 - c. Comment out line of code containing: `set_relation`
 - d. Change `$crud->display_as('officeCode','Office City')` to `$crud->display_as('name','Customer Name')-> $crud->display_as('status','Customer Status')->$crud->display_as('image','Customer Image')`
 - e. Move line of code containing `set_subject` above line containing `set_table` and change argument from 'Employee' to 'Customer'
 - f. Add line after last line containing `display_as`: `$crud->fields('name','status','image')`. This shows which fields will be displayed in the views.
 - g. Add line right after above: `$crud->required('name','status')`
 - h. Change line containing `set_field_upload` to `$crud->set_field_upload('image','assets/uploads/files')`
 - i. The function `display()` should appear as pictured below.
14. Rename file `application/models/grocery_and_model.php` to `Grocery_and_model.php`
 15. Open a browser tab and type `https://ci-crud-mdroof.c9.io/index.php/customers/display` You should see a list screen with Add Customer at the top.
 16. Try adding, reading, updating, deleting a customers.
 17. Try uploading a picture.

```

25     public function display()
26     {
27         //Creates a new grocery CRUD app
28         $crud = new grocery_CRUD();
29
30         //Sets the sbject of the CRUD app
31         $crud->set_subject('Employee');
32
33         //Sets the table and fields for the CRUD app
34         $crud->set_table('customers')
35         ->columns('name', 'status', 'image');|
36
37         //Gives better names of the fields
38         $crud->display_as('name','Customer Name')
39         ->display_as('status','Customer Status')
40         ->display_as('image','Customer Image');
41
42         $crud->fields('name', 'status', 'image');
43
44         $crud->required_fields('name', 'status');
45
46         $crud->set_field_upload('image','assets/uploads/files');
47
48         $output = $crud->render();
49
50         $this->show_output($output);
51     }

```

For more info, view `grocerycrud` documentation API and function list. For example, try function `field_type`.

Video 4: Setup CodeIgniter Controllers

1. Open: `https://ci-crud-mdroof.c9.io/phpmyadmin`
2. Click on database: `ci_crud`
3. Create table: `orders`, with 3 columns, `order_id` (INT, `auto_increment`), `customer_id` (INT), and `item` (VARCHAR(255))
4. Open `Customers.php`
5. Copy function `display()`

6. Rename first function display() to customers()
7. Rename second function display() to orders()
8. Revise the code for orders() as shown below. Be sure to add the set_relation code.
9. Navigate to <https://ci-crud-mdroof.c9.io/index.php/customers/orders> to see the results.

```
56     public function orders()
57     {
58         //Creates a new grocery CRUD app
59         $crud = new grocery_CRUD();
60
61         //Sets the subject of the CRUD app
62         $crud->set_subject('Orders');
63
64         //Sets the table and fields for the CRUD app
65         $crud->set_table('orders')
66         ->columns('item', 'customer_id');
67
68         //Gives better names of the fields
69         $crud->display_as('item', 'Item Name')
70         ->display_as('customer_id', 'Customer Name');
71
72         $crud->fields('item', 'customer_id');
73
74         $crud->required_fields('item', 'customer_id');
75
76         $crud->set_relation('customer_id', 'customers', '{name} - {id} - {status}');
77
78         $output = $crud->render();
79
80         $this->show_output($output);
81     }
```

To change the links at the top of the application, edit views/errors/example.php