# Invenire Stock Inventory Manager

Web based ERP software for managing stock inventory with advanced POS system

## Developer manual

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#### **Installation Manual**

- 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

```
51  $db['default']['hostname'] = '';
52  $db['default']['username'] = '';
53  $db['default']['password'] = '';
54  $db['default']['database'] = '';
```

- Fill up these informations with your database hostname, database username, database password, database name respectively which you have created in the previous step.
- 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
  - customer\_image contains the uploaded images of customers
  - product image

contains the images of products added

- product\_category\_image
   contains the images of product category
- product\_sub\_category\_image
   contains the images of product sub-category
- supplier\_image

contains of the images of the supplier

- index.php

this file on loading calls all the codeigniter functions

## application

- config

contains the configuration files of the application

- controllers
  - admin.php
  - customer.php
  - employee.php
  - login.php
  - modal.php
- helpers

- libraries
- models
  - barcode\_model.php
  - crud\_model.php
  - email\_model.php
- views
  - admin

contains all the view files of admin panel

- customer

contains all the view files of customer panel

- employee
  - contains all the view files of employee panel
- footer.php
- forgot\_password.php
- header.php
- includes\_bottom.php
   contains links to javascript 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:

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

#### Manage customers

customer function contains the logical expressions of creating a new customer, editing the informations about an existing customer and deleting customer informations from the database. The parameters define the form action in which the data is to be created or edited. Email is sent to the new customer created which is defined in /application/models/ email\_model.php

## Manage suppliers

function supplier holds similar code logical expressions for adding, editing and deleting suppliers. Suppliers will have no login and so no email is sent to the supplier on creating his/her account.

## Manage product category

the function product\_category also holds the same logical expressions for creating new product category, editing an existing one and deleting some category from the database.

#### Manage product sub category

the function product\_sub\_category also holds the same logical expressions for creating new product sub-category, editing an existing one and deleting some sub-category from the database. Each sub-category is linked to a specific category.

#### Manage products

```
function product($param1 = '' , $param2 = '' , $param3 = '')

function product($param1 = '' , $param2 = '' , $param3 = '')

function product($param1 = '' , $param2 = '' , $param3 = '')

function product($param1 = '' , $param2 = '' , $param3 = '')

function product($param1 = '' , $param2 = '' , $param3 = '')

function product($param1 = '' , $param2 = '' , $param3 = '')

function product($param1 = '' , $param2 = '' , $param3 = '')

function product($param1 = '' , $param3 = '')

function product($param2 = '' , $param3 = '')

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function product($param2 = '' , $param2 = ''
```

function product holds all the logics for creating a new product with estimated purchase price and selling price. The purchase price is later updated in another function on creation of a purchase. Product image is saved to /uploads/product\_image and they are named according to product\_id. Parameters are used for defining the form of addition on edition.

#### Product barcode

```
function product_barcode($param1 = '' , $serial_number = '')

{
    if ($this->session->userdata('admin_login') != 1)
        redirect(base_url() . 'index.php?login');

    if ($param1 == 'create_barcode')

    {
        $this->barcode_model->create_barcode($serial_number);

    }

    $page_data['page_name'] = 'product_barcode';

    $page_data['page_title'] = 'Product Barcodes';

    $page_data['products'] = $this->db->get('product')->result_array();

    $this->load->view('index' , $page_data);
}
```

Each and every product is differentiated by software generated barcode and the barcode is generated according to a random serial number of products. Barcode model is used for creating the barcodes. The create\_barcode function of barcode\_model generates barcode and from controller the \$serial\_number is passed to the model.

## Manage damaged products

function damaged\_products contains the logical expressions to add a product to damaged product list. Also it declares the codes for editing and deleting damaged product from database.

#### Manage orders

function order creates an order under a customer name and sends mail to the customer about the order created for him/her.

```
if ($status == 0){
    $this->session->set_flashdata('flash_message' , 'Order added to pending');
    $this->email_model->order_creating_email_by_admin('Pending' , $order_number , $product_ordered , $product_quantity , $email_to);
    redirect(base_url() . 'index.php?admin/pending_order' , 'refresh');
}
elseif ($status == 1) {
    $this->session->set_flashdata('flash_message' , 'Order added to approved');
    $this->email_model->order_creating_email_by_admin('Approved' , $order_number , $product_ordered , $product_quantity , $email_to);
    redirect(base_url() . 'index.php?admin/approved_order' , 'refresh');
} else {
    $this->session->set_flashdata('flash_message' , 'Order added to rejected');
    $this->email_model->order_creating_email_by_admin('Rejected' , $order_number , $product_ordered , $product_quantity , $email_to);
    redirect(base_url() . 'index.php?admin/rejected_order' , 'refresh');
}
```

depending on the order status, after creating the order the function redirects to pending order page or approved order page or rejected order page and likewise mail is sent notifying the customer about the order.

#### Manage Purchases

The function purchase\_add can create new purchase and the purchase process starts when the create parameter is true and it calls new\_purchase function from /application/model/crud\_model.php

the new\_purchase function enters data to purchase informations. It enters data to payment informations and the purchase data is saved as expense for the company. It also updates the stock quantity of the products and also purchase price.

#### Manage Sales

```
// SALE PRODUCT
function sale_add($param1 = '')
{
    if ($this->session->userdata('admin_login') != 1)
        redirect(base_url() . 'index.php?login');

    if ($param1 == 'do_add')
{
        $this->crud_model->add_new_sale();
        $this->session->set_flashdata('flash_message' , 'New sale added successfully');
        redirect(base_url() . 'index.php?admin/sale_add');
}

$page_data['page_name'] = 'sale_add';
$page_data['page_title'] = 'Create a new sale';
$this->load->view('index' , $page_data);
}
```

function sale\_add creates new sales associating with add\_new\_sale function of /application/models/crud\_model.php

the sale entry is taken as json data and enters informations to sale invoices and payment. Each sale is counted as income. function get\_selected\_product holds the logical expressions for sending a product to sale invoice during a sale.

### Manage Employee

function employee can create, edit and delete employees. A email is sent to the employee when admin creates the employee account. Employees are categorised into two classes. One is sales staff and another is purchase staff.

```
function employee($param1 = '', $param2 = '', $param3 = '')
{
    if ($this->session->userdata('admin_login') != 1)
        redirect(base_url() . 'index.php?login');

    if ($param1 == 'create')
{
        Sdata['name'] = $this->input->post('name');
        $data['amai'] = $this->input->post('empil');
        $data['type'] = $this->input->post('empil');
        $data['type'] = $this->input->post('type');

        $this->db->insert('employee' , $data);
        // mail sending configuration
        $email_to = $data['email'];
        $password_unhashed = $this->input->post('password');

        // upload an image
        $employee_id = mysql_insert_id();
        move_uploaded_file($_FILES['userfile']['tmp_name'], 'uploads/employee_image/' . $employee_id . '.jpg');
        $this->session->set_flashdata('flash_message' , 'New employee added successfully');
        // send mail to employee
        $this->email_model->account_opening_email('employee' , $email_to , $password_unhashed);
        redirect(base_url() . 'index.php?admin/employee' , 'refresh');
}
```

#### **Private Messaging**

```
function message_new($paraml = '' , $param2 = '')
{
    if ($this->session->userdata'admin_login') != 1)
        redirect(base_url() . 'index.php?login');

    if ($paraml == 'send_new_message') {
        $new_message_thread_code = $this->crud_model->send_new_message();
        $this->session->set_flashdata('flash_message' , 'Message Sent');
        // mail sending configurations

        $get_receiver = $this->ob->get_where('message_thread' , array('message_thread_code' => $new_message_thread_code))->row()->receiver;
        $sec_iver = explode('' , $get_receiver);
        $user_to_email_type = $receiver[0];
        $suser_to_email_id = $receiver[0];
        $suser_to_email_type . '_id' => $user_to_email_id)->row()->rewilt;
        $redirect(base_url() . 'index.php?admin/message_redo/' . $new_message_thread_code, 'refresh');
    }

    $page_data['page_name'] = 'message_new';
    $page_data['page_name'] = 'message_new';
    $page_data['gage_name'] = $this->db->get_where('employee' , array('type' => 1))->result_array();
        $page_data['usesage_thread_code'] = $param2;
        $this->db->get_where('employee' , array('type' => 2))->result_array();
        $page_data['message_thread_code'] = $param2;
        $this->db->get_where('employee' , array('type' => 2))->result_array();
        $p
```

function message\_new holds the logical expressions for sending the message to any user by the admin. An email notification is send to the receiver every time when admin sends message or make a reply to their message. Messages are tracked by message thread code which is defined in the send\_new\_message function located in /application/models/ crud\_model.php.

#### **Profile Settings**

function profile settings holds the logical expressions for

- updating current profile informations.
- uploading a profile picture.
- updating or changing login password.

### System settings

function settings holds the logical expressions for

- updating system informations like company name or email and other system informations.
  - uploading a company logo.

#### **Customer Controller(/application/controllers/customer.php)**

#### Manage orders

function order holds the logical expressions for

- creating a new order by logged in customer
- the order is then sent to the admin for approval
- mail is sent to the admin about the order

## Private Messaging

function message\_new holds the logical expressions for

- sending a new message to admin
- a mail is sent to the admin when customers send admin any message or replies.

## Profile settings

function profile\_settings holds the logical expressions for

- updating profile informations
- uploading profile picture
- changing or updating the login password.

#### **Employee Controller(/application/controllers/employee.php)**

#### Manage Sales (only when a sales staff logs in)

function sale\_add holds the logical expressions for creating new sale.

#### Manage Purchase (only when a purchase staff logs in)

function purchase\_add holds the logical expressions for creating new purchase.

#### Private Messaging

function message\_new holds the logical expressions for

- sending a new message to admin
- a mail is sent to the admin when employees send admin any message or replies.

## Profile settings

function profile\_settings holds the logical expressions for

- updating profile informations
- uploading profile picture
- changing or updating the login password.

## Login Controller(/application/controllers/login.php)

function do\_login holds the logical expressions for

- matching email and password for different user.
- setting the login type as admin or customer or employee.
- setting session data which are used for other views

## function reset\_password

- matches email address to saved email address
- generates a new password
- sends email to that address with the newly generated password

#### function logout

- unsets the session and destroys all the session data saved for that session.

#### The Model Files (/application/models)

#### models

- barcode\_model.php
   contains the logical expressions for generating
  barcodes for products.
- 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.

## The View Files (/application/views)

#### views

- admin

contains all the view files of admin panel

- customer

contains all the view files of customer panel

- employee

contains all the view files of employee 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.