**E:\workspace\payroll\_rails\config\application.rb**

require File.expand\_path('../boot', \_\_FILE\_\_)

require 'rails/all'

if defined?(Bundler)

# If you precompile assets before deploying to production, use this line

Bundler.require(\*Rails.groups(:assets => %w(development test)))

# If you want your assets lazily compiled in production, use this line

# Bundler.require(:default, :assets, Rails.env)

end

module Payroll

class Application < Rails::Application

# Settings in config/environments/\* take precedence over those specified here.

# Application configuration should go into files in config/initializers

# -- all .rb files in that directory are automatically loaded.

# Custom directories with classes and modules you want to be autoloadable.

# config.autoload\_paths += %W(#{config.root}/extras)

# Only load the plugins named here, in the order given (default is alphabetical).

# :all can be used as a placeholder for all plugins not explicitly named.

# config.plugins = [ :exception\_notification, :ssl\_requirement, :all ]

# Activate observers that should always be running.

# config.active\_record.observers = :cacher, :garbage\_collector, :forum\_observer

# Set Time.zone default to the specified zone and make Active Record auto-convert to

# this zone.

# Run "rake -D time" for a list of tasks for finding time zone names. Default is UTC.

# config.time\_zone = 'Central Time (US & Canada)'

config.time\_zone = 'Kuala Lumpur'

# The default locale is :en and all translations from config/locales/\*.rb,yml are auto

# loaded.

# config.i18n.load\_path += Dir[Rails.root.join('my', 'locales', '\*.{rb,yml}').to\_s]

# config.i18n.default\_locale = :de

# Configure the default encoding used in templates for Ruby 1.9.

config.encoding = "utf-8"

# Configure sensitive parameters which will be filtered from the log file.

config.filter\_parameters += [:password]

# Enable escaping HTML in JSON.

config.active\_support.escape\_html\_entities\_in\_json = true

# Use SQL instead of Active Record's schema dumper when creating the database.

# This is necessary if your schema can't be completely dumped by the schema dumper,

# like if you have constraints or database-specific column types

# config.active\_record.schema\_format = :sql

# Enforce whitelist mode for mass assignment.

# This will create an empty whitelist of attributes available for mass-assignment for

# all models in your app. As such, your models will need to explicitly whitelist or

# blacklist accessible parameters by using an attr\_accessible or attr\_protected

# declaration.

config.active\_record.whitelist\_attributes = true

# Enable the asset pipeline

config.assets.enabled = true

# Version of your assets, change this if you want to expire all your assets

config.assets.version = '1.0'

config.assets.precompile += %w(loginui.css \_payslip.css \_payslip.js

dark-hive/jquery-ui-1.10.2.custom.min.css admin.css admin.js user.css user.js)

jquitheme = %w(blitzer dark-hive trontastic humanity)

jquicss = 'jquery-ui-1.10.2.custom.min.css'

jquitheme.each do |t|

config.assets.precompile << "#{t}/#{jquicss}"

end

end

end

**E:\workspace\payroll\_rails\config\database.yml**

# MySQL. Versions 4.1 and 5.0 are recommended.

#

# Install the MYSQL driver

# gem install mysql2

#

# Ensure the MySQL gem is defined in your Gemfile

# gem 'mysql2'

#

# And be sure to use new-style password hashing:

# http://dev.mysql.com/doc/refman/5.0/en/old-client.html

development:

adapter: mysql2

encoding: utf8

reconnect: false

database: payroll\_development

pool: 5

username: root

password: root

host: 127.0.0.1

port: 3307

# Warning: The database defined as "test" will be erased and

# re-generated from your development database when you run "rake".

# Do not set this db to the same as development or production.

test:

adapter: mysql2

encoding: utf8

reconnect: false

database: payroll\_test

pool: 5

username: root

password: root

host: 127.0.0.1

port: 3307

production:

adapter: mysql2

encoding: utf8

reconnect: false

database: payroll\_development

pool: 5

username: root

password: root

host: 127.0.0.1

port: 3307

**E:\workspace\payroll\_rails\config\environment.rb**

# Load the rails application

require File.expand\_path('../application', \_\_FILE\_\_)

# Initialize the rails application

Payroll::Application.initialize!

Rails.logger = Logger.new(STDOUT)

**E:\workspace\payroll\_rails\config\routes.rb**

Payroll::Application.routes.draw do

root :to => 'admin/admin#index'

match 'login' => 'application#new', :as => :login

match 'auth' => 'application#create', :as => :auth

match 'logout' => 'application#destroy', :as => :logout

namespace :admin do

match 'index' => 'admin#index', :as => :index, :via => :get

scope 'user', :as => 'user' do

match '' => 'user#index', :via => :get

match 'list' => 'user#list', :as => :list, :via => [:get, :post]

match 'new' => 'user#new', :as => :new, :via => :get

match 'create' => 'user#create', :as => :create, :via => :post

match 'edit(/:id)' => 'user#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'user#update', :as => :update, :via => :post

match 'delete' => 'user#destroy', :as => :delete, :via => :post

end

scope 'employee', :as => 'employee' do

match '' => 'employee#index', :via => :get

match 'list' => 'employee#list', :via => [:get, :post]

match 'new' => 'employee#new', :as => :new, :via => :get

match 'create' => 'employee#create', :as => :create, :via => :post

match 'edit(/:id)' => 'employee#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'employee#update', :as => :update, :via => :post

match 'delete' => 'employee#destroy', :as => :delete, :via => :post

end

scope 'designation', :as => 'designation' do

match '' => 'designation#index', :via => :get

match 'list' => 'designation#list', :as => :list, :via => [:get, :post]

match 'new' => 'designation#new', :as => :new, :via => :get

match 'create' => 'designation#create', :as => :create, :via => :post

match 'edit(/:id)' => 'designation#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'designation#update', :as => :update, :via => :post

match 'delete' => 'designation#destroy', :as => :delete, :via => :post

end

scope 'empstatus', :as => 'empstatus' do

match '' => 'employment\_status#index', :via => :get

match 'list' => 'employment\_status#list', :as => :list, :via => [:get, :post]

match 'new' => 'employment\_status#new', :as => :new, :via => :get

match 'create' => 'employment\_status#create', :as => :create, :via => :post

match 'edit(/:id)' => 'employment\_status#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'employment\_status#update', :as => :update, :via => :post

match 'delete' => 'employment\_status#destroy', :as => :delete, :via => :post

end

scope 'jobcat', :as => 'jobcat' do

match '' => 'job\_category#index', :via => :get

match 'list' => 'job\_category#list', :as => :list, :via => [:get, :post]

match 'new' => 'job\_category#new', :as => :new, :via => :get

match 'create' => 'job\_category#create', :as => :create, :via => :post

match 'edit(/:id)' => 'job\_category#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'job\_category#update', :as => :update, :via => :post

match 'delete' => 'job\_category#destroy', :as => :delete, :via => :post

end

scope 'dept', :as => 'dept' do

match '' => 'department#index', :via => :get

match 'list' => 'department#list', :as => :list, :via => [:get, :post]

match 'new' => 'department#new', :as => :new, :via => :get

match 'create' => 'department#create', :as => :create, :via => :post

match 'edit(/:id)' => 'department#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'department#update', :as => :update, :via => :post

match 'delete' => 'department#destroy', :as => :delete, :via => :post

end

scope 'payrate', :as => 'payrate' do

match '' => 'pay\_rate#index', :via => :get

match 'list' => 'pay\_rate#list', :as => :list, :via => [:get, :post]

match 'new' => 'pay\_rate#new', :as => :new, :via => :get

match 'create' => 'pay\_rate#create', :as => :create, :via => :post

match 'edit(/:id)' => 'pay\_rate#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'pay\_rate#update', :as => :update, :via => :post

match 'delete' => 'pay\_rate#destroy', :as => :delete, :via => :post

end

scope 'hourly', :as => 'hourly' do

match 'chart' => 'hourly\_payroll\_chart#index', :via => :get

match 'chart/data' => 'hourly\_payroll\_chart#data', :via => [:get, :post]

end

scope 'payslip', :as => 'payslip' do

match '' => 'payslip#index', :via => :get

match 'list' => 'payslip#list', :via => [:get, :post]

match 'slip(/:id(/:month(/:year)))' => 'payslip#payslip', :as => :slip, :via => :get

end

scope 'att', :as => 'att' do

match '' => 'attendance#index', :via => :get

match 'list' => 'attendance#list', :via => [:get, :post]

end

scope 'overtime', :as => 'overtime' do

scope 'rate', :as => 'rate' do

match '' => 'overtime\_rate#index', :via => :get

match 'list' => 'overtime\_rate#list', :as => :list, :via => [:get, :post]

match 'new' => 'overtime\_rate#new', :as => :new, :via => :get

match 'create' => 'overtime\_rate#create', :as => :create, :via => :post

match 'edit(/:id)' => 'overtime\_rate#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'overtime\_rate#update', :as => :update, :via => :post

match 'delete' => 'overtime\_rate#destroy', :as => :delete, :via => :post

end

match 'chart' => 'overtime\_chart#index', :via => :get

match 'chart/data' => 'overtime\_chart#data', :via => [:get, :post]

end

scope 'workhours', :as => 'workhours' do

match 'chart' => 'total\_work\_hours\_chart#index', :via => :get

match 'chart/data' => 'total\_work\_hours\_chart#data', :via => [:get, :post]

end

scope 'salaryadj', :as => 'salaryadj' do

match '' => 'salary\_adjustment#index', :via => :get

match 'list' => 'salary\_adjustment#list', :as => :list, :via => [:get, :post]

match 'new' => 'salary\_adjustment#new', :as => :new, :via => :get

match 'create' => 'salary\_adjustment#create', :as => :create, :via => :post

match 'edit(/:id)' => 'salary\_adjustment#edit', :as => :edit, :via => :get

match 'update(/:id)' => 'salary\_adjustment#update', :as => :update, :via => :post

match 'delete' => 'salary\_adjustment#destroy', :as => :delete, :via => :post

end

end

namespace :user do

match 'index' => 'user#index', :as => :index, :via => :get

scope 'info', :as => 'info' do

match '' => 'info#index', :via => :get

match 'update' => 'info#update', :via => :post

end

scope 'contact', :as => 'contact' do

match '' => 'contact#index', :via => :get

match 'update' => 'contact#update', :via => :post

end

scope 'job', :as => 'job' do

match '' => 'job#index', :via => :get

end

scope 'salary', :as => 'salary' do

match '' => 'salary#index', :via => :get

end

scope 'qualification', :as => 'qualification' do

match '' => 'qualification#index', :via => :get

match 'update' => 'qualification#update', :via => :post

end

scope 'overtime', :as => 'overtime' do

match 'chart' => 'overtime\_chart#index', :via => :get

match 'chart/data' => 'overtime\_chart#data', :via => [:get, :post]

end

scope 'workhours', :as => 'workhours' do

match 'chart' => 'total\_work\_hours\_chart#index', :via => :get

match 'chart/data' => 'total\_work\_hours\_chart#data', :via => [:get, :post]

end

scope 'hourly', :as => 'hourly' do

match 'chart' => 'hourly\_payroll\_chart#index', :via => :get

match 'chart/data' => 'hourly\_payroll\_chart#data', :via => [:get, :post]

end

scope 'payslip', :as => 'payslip' do

match '' => 'payslip#index', :via => :get

match 'slip(/:month(/:year))' => 'payslip#payslip', :as => :slip, :via => :get

end

end

# The priority is based upon order of creation:

# first created -> highest priority.

# Sample of regular route:

# match 'products/:id' => 'catalog#view'

# Keep in mind you can assign values other than :controller and :action

# Sample of named route:

# match 'products/:id/purchase' => 'catalog#purchase', :as => :purchase

# This route can be invoked with purchase\_url(:id => product.id)

# Sample resource route (maps HTTP verbs to controller actions automatically):

# resources :products

# Sample resource route with options:

# resources :products do

# member do

# get 'short'

# post 'toggle'

# end

#

# collection do

# get 'sold'

# end

# end

# Sample resource route with sub-resources:

# resources :products do

# resources :comments, :sales

# resource :seller

# end

# Sample resource route with more complex sub-resources

# resources :products do

# resources :comments

# resources :sales do

# get 'recent', :on => :collection

# end

# end

# Sample resource route within a namespace:

# namespace :admin do

# # Directs /admin/products/\* to Admin::ProductsController

# # (app/controllers/admin/products\_controller.rb)

# resources :products

# end

# You can have the root of your site routed with "root"

# just remember to delete public/index.html.

# root :to => 'welcome#index'

# See how all your routes lay out with "rake routes"

# This is a legacy wild controller route that's not recommended for RESTful applications.

# Note: This route will make all actions in every controller accessible via GET requests.

# match ':controller(/:action(/:id))(.:format)'

end

**E:\workspace\payroll\_rails\app\models\attendance.rb**

# Model for attendance table.

class Attendance < ActiveRecord::Base

attr\_accessible :id, :staff\_id, :time\_in, :time\_out, :work\_date

self.table\_name = 'attendance'

belongs\_to :employee, :foreign\_key => 'staff\_id', :primary\_key => 'staff\_id'

validates\_presence\_of :work\_date, :message => 'Work date is required'

validates\_presence\_of :time\_in, :message => 'Time in is required'

validates\_presence\_of :time\_out, :message => 'Time out is required'

end

**E:\workspace\payroll\_rails\app\models\department.rb**

# Model for department table.

class Department < ActiveRecord::Base

attr\_accessible :id, :name

self.table\_name = 'department'

validates\_presence\_of :name, :message => 'Name is required'

validates\_uniqueness\_of :name, :message => "Department %{value} already exist"

end

**E:\workspace\payroll\_rails\app\models\designation.rb**

# Model for designation table.

class Designation < ActiveRecord::Base

attr\_accessible :id, :title, :desc, :note

self.table\_name = 'designation'

has\_many :employee\_job

validates\_presence\_of :title, :message => 'Job Title is required'

validates\_uniqueness\_of :title, :message => "Job Title %{value} already exist"

end

**E:\workspace\payroll\_rails\app\models\employee.rb**

# Model for employee table.

class Employee < ActiveRecord::Base

attr\_accessible :dob, :staff\_id, :user\_id, :first\_name, :gender, :id, :is\_bumi,

:last\_name, :marital\_status, :middle\_name, :nationality, :new\_ic,

:old\_ic, :passport\_no, :place\_of\_birth, :race, :religion

self.table\_name = 'employee'

has\_one :employee\_contact, :foreign\_key => 'id'

has\_one :employee\_job, :foreign\_key => 'id'

has\_one :employee\_salary, :foreign\_key => 'id'

has\_one :employee\_qualification, :foreign\_key => 'id'

has\_one :employee, :foreign\_key => 'id'

has\_many :attendance, :foreign\_key => 'staff\_id', :primary\_key => 'staff\_id'

belongs\_to :user

validates\_presence\_of :staff\_id, :message => 'Employee ID is required'

validates\_presence\_of :first\_name, :message => 'First Name is required'

validates\_presence\_of :last\_name, :message => 'Last Name is required'

validates\_presence\_of :new\_ic, :message => 'New IC No. is required'

validates\_presence\_of :gender, :message => 'Gender is required'

validates\_presence\_of :marital\_status, :message => 'Marital Status is required'

validates\_presence\_of :nationality, :message => 'Nationality is required'

validates\_presence\_of :dob, :message => 'Date of Birth is required'

validates\_presence\_of :place\_of\_birth, :message => 'Place of Birth is required'

validates\_presence\_of :race, :message => 'Race is required'

validates\_uniqueness\_of :staff\_id, :message => "Employee ID %{value} already exist"

end

**E:\workspace\payroll\_rails\app\models\employee\_contact.rb**

# Model for employee\_contact table.

class EmployeeContact < ActiveRecord::Base

attr\_accessible :address\_1, :address\_2, :address\_3, :city, :country, :home\_phone, :id,

:mobile\_phone, :other\_email, :postcode, :state, :work\_email

self.table\_name = 'employee\_contact'

belongs\_to :employee, :foreign\_key => 'id'

validates\_presence\_of :address\_1, :message => 'Address 1 is required'

validates\_presence\_of :city, :message => 'City is required'

validates\_presence\_of :state, :message => 'State is required'

validates\_presence\_of :postcode, :message => 'Postal Code is required'

validates\_presence\_of :country, :message => 'Country is required'

validates\_presence\_of :work\_email, :message => 'Work Email is required'

end

**E:\workspace\payroll\_rails\app\models\employee\_job.rb**

# Model for employee\_job table.

class EmployeeJob < ActiveRecord::Base

attr\_accessible :confirm\_date, :department\_id, :designation\_id, :employment\_status\_id,

:id, :job\_category\_id, :join\_date

self.table\_name = 'employee\_job'

belongs\_to :employee, :foreign\_key => 'id'

belongs\_to :designation

belongs\_to :department

belongs\_to :employment\_status

belongs\_to :job\_category

validates\_presence\_of :designation\_id, :message => 'Designation is required'

validates\_presence\_of :department\_id, :message => 'Department is required'

validates\_presence\_of :employment\_status\_id, :message => 'Employment Status is required'

validates\_presence\_of :job\_category\_id, :message => 'Job Category is required'

validates\_presence\_of :join\_date, :message => 'Join Date is required'

end

**E:\workspace\payroll\_rails\app\models\employee\_qualification.rb**

# Model for employee\_qualification table.

class EmployeeQualification < ActiveRecord::Base

attr\_accessible :end\_date, :gpa, :id, :institute, :level, :major, :start\_date, :year

self.table\_name = 'employee\_qualification'

belongs\_to :employee, :foreign\_key => 'id'

validates\_presence\_of :level, :message => 'Qualification Level is required'

validates\_presence\_of :institute, :message => 'Institute name is required'

validates\_presence\_of :year, :message => 'Year obtained is required'

validates\_presence\_of :start\_date, :message => 'Start Date is required'

validates\_presence\_of :end\_date, :message => 'End Date is required'

end

**E:\workspace\payroll\_rails\app\models\employee\_salary.rb**

# Model for employee\_salary table.

class EmployeeSalary < ActiveRecord::Base

attr\_accessible :allowance, :bank\_acc\_no, :bank\_acc\_type, :bank\_address, :bank\_name,

:epf, :epf\_no, :id, :income\_tax, :income\_tax\_no, :salary, :socso\_no,

:pay\_type, :socso

self.table\_name = 'employee\_salary'

belongs\_to :employee, :foreign\_key => 'id'

validates\_presence\_of :salary, :message => 'Salary is required'

validates\_presence\_of :bank\_name, :message => 'Bank Name is required'

validates\_presence\_of :bank\_acc\_no, :message => 'Bank Account No. is required'

validates\_presence\_of :bank\_acc\_type, :message => 'Bank Account Type is required'

validates\_presence\_of :bank\_address, :message => 'Bank Address is required'

validates\_presence\_of :epf\_no, :message => 'EPF No. is required'

validates\_presence\_of :pay\_type, :message => 'Pay Type is required'

validates\_presence\_of :epf, :message => 'EPF Deduction is required'

validates\_numericality\_of :salary, :greater\_than\_or\_equal\_to => 0,

:message => 'Salary is invalid'

validates\_numericality\_of :allowance, :greater\_than\_or\_equal\_to => 0,

:message => 'Allowance is invalid'

validates\_numericality\_of :epf, :greater\_than\_or\_equal\_to => 0,

:message => 'EPF Deduction is invalid'

validates\_numericality\_of :socso, :greater\_than\_or\_equal\_to => 0,

:message => 'SOCSO Deduction is invalid'

validates\_numericality\_of :income\_tax, :greater\_than\_or\_equal\_to => 0,

:message => 'Income Tax Deduction is invalid'

def allowance

a = read\_attribute(:allowance)

a.blank? ? 0 : a

end

def epf

a = read\_attribute(:epf)

a.blank? ? 0 : a

end

def income\_tax

a = read\_attribute(:income\_tax)

a.blank? ? 0 : a

end

def salary

a = read\_attribute(:salary)

a.blank? ? 0 : a

end

def socso

a = read\_attribute(:socso)

a.blank? ? 0 : a

end

def display\_pay\_type

case self.pay\_type

when 1

'Monthly'

when 2

'Hourly'

else

''

end

end

end

**E:\workspace\payroll\_rails\app\models\employment\_status.rb**

# Model for employment\_status table.

class EmploymentStatus < ActiveRecord::Base

attr\_accessible :id, :name

self.table\_name = 'employment\_status'

has\_many :employee\_job

validates\_presence\_of :name, :message => 'Name is required'

validates\_uniqueness\_of :name, :message => "Employment Status %{value} already exist"

end

**E:\workspace\payroll\_rails\app\models\job\_category.rb**

# Model for job\_category table.

class JobCategory < ActiveRecord::Base

attr\_accessible :id, :name

self.table\_name = 'job\_category'

has\_many :employee\_job

validates\_presence\_of :name, :message => 'Name is required'

validates\_uniqueness\_of :name, :message => "Category %{value} already exist"

end

**E:\workspace\payroll\_rails\app\models\overtime\_rate.rb**

# Model for overtime\_rate table.

class OvertimeRate < ActiveRecord::Base

attr\_accessible :duration, :pay\_rate, :year

self.table\_name = 'overtime\_rate'

validates\_presence\_of :duration, :message => 'Duration is required'

validates\_presence\_of :year, :message => 'Year is required'

validates\_presence\_of :pay\_rate, :message => 'Pay Rate is required'

validates\_numericality\_of :duration, :greater\_than\_or\_equal\_to => 0,

:message => 'Duration is invalid'

validates\_numericality\_of :year, :greater\_than => 0, :message => 'Year is invalid'

validates\_numericality\_of :pay\_rate, :greater\_than => 0,

:message => 'Pay Rate is invalid'

validates\_uniqueness\_of :year,

:message => "Overtime rate for year %{value} already exist"

def duration

a = read\_attribute(:duration)

a.blank? ? 0 : a

end

def pay\_rate

a = read\_attribute(:pay\_rate)

a.blank? ? 0 : a

end

end

**E:\workspace\payroll\_rails\app\models\pay\_rate.rb**

# Model for pay\_rate table.

class PayRate < ActiveRecord::Base

attr\_accessible :hourly\_pay\_rate, :id, :month, :staff\_id, :year

self.table\_name = 'pay\_rate'

validates\_presence\_of :staff\_id, :message => 'Staff ID is required'

validates\_presence\_of :month, :message => 'Month is required'

validates\_presence\_of :year, :message => 'Year is required'

validates\_presence\_of :hourly\_pay\_rate, :message => 'Hourly pay rate is required'

validates\_numericality\_of :month, :greater\_than => 0, :message => 'Month is invalid'

validates\_numericality\_of :month, :less\_than\_or\_equal\_to => 12,

:message => 'Month is invalid'

validates\_numericality\_of :year, :greater\_than => 0, :message => 'Year is invalid'

validates\_numericality\_of :hourly\_pay\_rate, :greater\_than => 0,

:message => 'Hourly pay rate is invalid'

def hourly\_pay\_rate

a = read\_attribute(:hourly\_pay\_rate)

a.blank? ? 0 : a

end

end

**E:\workspace\payroll\_rails\app\models\salary\_adjustment.rb**

# Model for salary\_adjustment table.

class SalaryAdjustment < ActiveRecord::Base

attr\_accessible :id, :inc, :month, :staff\_id, :year

self.table\_name = 'salary\_adjustment'

validates\_presence\_of :staff\_id, :message => 'Staff ID is required'

validates\_presence\_of :inc, :message => 'Increment is required'

validates\_presence\_of :month, :message => 'Month is required'

validates\_presence\_of :year, :message => 'Year is required'

validates\_numericality\_of :inc, :greater\_than => 0,

:message => 'Increment is invalid'

validates\_numericality\_of :month, :greater\_than => 0, :message => 'Month is invalid'

validates\_numericality\_of :month, :less\_than\_or\_equal\_to => 12,

:message => 'Month is invalid'

validates\_numericality\_of :year, :greater\_than => 0, :message => 'Year is invalid'

def inc

a = read\_attribute(:inc)

a.blank? ? 0 : a

end

end

**E:\workspace\payroll\_rails\app\models\user.rb**

require 'digest'

# Model for user table.

class User < ActiveRecord::Base

attr\_accessible :id, :pwd, :role, :status, :username, :pwd\_confirmation

attr\_accessor :pwd

self.table\_name = 'user'

has\_one :employee

validates :username, :uniqueness => { :message => "Username %{value} already exist" },

:length => { :within => 3..50,

:message => "Minimum is %{count} characters" }

validates :pwd, :confirmation => { :message => "Password doesn't match confirmation" },

:length => { :within => 4..20,

:message => "Minimum is %{count} characters" },

:presence => { :message => "Password is required" },

:if => :password\_required?

before\_save :encrypt\_new\_password

UNCHANGED\_PASSWORD = '\*\*\*\*\*\*\*\*'

ADMIN = 1

NORMAL\_USER = 2

@@roles = { 'Admin' => 1, 'Normal User' => 2 }

@@statuses = { 'Enabled' => 1, 'Disabled' => 0 }

def self.authenticate(username, password)

user = find\_by\_username(username)

if user && user.authenticated?(password) && user.enabled?

return user

end

end

def authenticated?(password)

self.password == encrypt(password)

end

def enabled?

self.status == true

end

def self.roles

@@roles

end

def self.statuses

@@statuses

end

def role\_display

role == 1 ? 'Admin' : 'Normal User'

end

def status\_display

status == true ? 'Enabled' : 'Disabled'

end

protected

def encrypt\_new\_password

return if pwd.blank?

self.password = encrypt(pwd)

end

def password\_required?

if pwd == UNCHANGED\_PASSWORD

return false

end

self.password.blank? || pwd.present?

end

def encrypt(string)

Digest::SHA1.hexdigest(string)

end

end

**E:\workspace\payroll\_rails\app\controllers\application\_controller.rb**

# The main application's controller.

class ApplicationController < ActionController::Base

protect\_from\_forgery

LAYOUT = {

:admin => 'admin',

:chart => 'chart',

:list => 'list',

:user => 'user'

}

# Authenticates a user.

def create

user = User.authenticate(params[:username], params[:password])

if user.present?

session[:user\_id] = user.id

if user.role == User::ADMIN

redirect\_to admin\_index\_path and return

else

employee = user.employee

if employee.present?

session[:employee\_id] = employee.id

session[:staff\_id] = employee.staff\_id

session[:supervisor\_id] = employee.id

redirect\_to user\_index\_path and return

else

flash.now[:alert] = %Q{No employee record found. Please contact the administrator

to create your employee record.}

end

end

else

flash.now[:alert] = 'Incorrect username or password'

end

render :action => 'new'

end

# Logs out a user.

def destroy

reset\_session

redirect\_to login\_path

end

protected

# Returns the current user's user\_id.

def current\_user

return unless session[:user\_id]

@current\_user ||= session[:user\_id]

end

# Checks whether a user is authenticated.

def authenticate

logged\_in? ? true : access\_denied

end

# Checks whether a user is logged in.

def logged\_in?

current\_user.present?

end

# Prevents a user from accessing the system without logging in.

def access\_denied

redirect\_to login\_path, :notice => 'Please log in to continue' and return false

end

# Formats a date into dd-mm-yyyy .

# Helper method.

def fmt\_date(dt)

if dt.present?

dt.strftime('%d-%m-%Y')

end

end

# Formats a time into hh:mm:ss AM/PM .

# Helper method.

def fmt\_time(t)

if t.present?

t.in\_time\_zone('Kuala Lumpur').strftime('%l:%M %p')

end

end

# Returns the month name from a given number.

# Helper method.

def month\_name(i)

ApplicationHelper.month\_name(i)

end

# Returns a hash of month names.

def month\_options

months = I18n.t('date.month\_names')

o = {}

(1..12).each do |m|

o[months[m]] = m

end

o

end

# Returns the end year for year selection in view.

# Helper method.

def end\_year

2000

end

# Returns the user\_id.

def get\_user\_id

session[:user\_id]

end

helper\_method :current\_user

helper\_method :logged\_in

helper\_method :fmt\_date

helper\_method :fmt\_time

helper\_method :month\_name

helper\_method :end\_year

end

**E:\workspace\payroll\_rails\app\controllers\admin\admin\_controller.rb**

# Admin base controller.

# All Admin controllers must inherit this controller.

# Admin controller serves incoming requests from an authenticated Admin User.

class Admin::AdminController < ApplicationController

layout false

# checks whether a user is authenticated before serving any request

before\_filter :authenticate

# Display the admin page.

# GET /admin/index

def index

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:admin] }

end

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\attendance\_controller.rb**

# This controller serves incoming requests to display out the Attendance records.

class Admin::AttendanceController < Admin::AdminController

# List all records.

# GET /att

# GET /att.json

def index

@data = AttendanceHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /att/list

# GET /att/list.json

def list

\_work\_date = params[:work\_date]

employee = params[:employee].blank? ? '' : params[:employee]

work\_date = Date.strptime(\_work\_date, '%d-%m-%Y') if \_work\_date.present?

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? AttendanceHelper::DEFAULT\_SORT\_COLUMN

: params[:sortcolumn]

sortdir = params[:sortdir].blank? ? AttendanceHelper::DEFAULT\_SORT\_DIR :

params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

filters = { :work\_date => work\_date,

:employee => employee }

if work\_date.blank? && employee.blank?

@data = AttendanceHelper.get\_all(pgnum, pgsize, sort)

else

@data = AttendanceHelper.get\_filter\_by(filters, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\department\_controller.rb**

# This controller serves incoming requests to display out the Department records.

class Admin::DepartmentController < Admin::AdminController

# List all records.

# GET /dept

# GET /dept.json

def index

@data = DepartmentHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /dept/list

# GET /dept/list.json

def list

keyword = params[:keyword].blank? ? '' : params[:keyword]

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? DepartmentHelper::DEFAULT\_SORT\_COLUMN

: params[:sortcolumn]

sortdir = params[:sortdir].blank? ? DepartmentHelper::DEFAULT\_SORT\_DIR :

params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

if keyword.blank?

@data = DepartmentHelper.get\_all(pgnum, pgsize, sort)

else

@data = DepartmentHelper.get\_filter\_by(keyword, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the Department form.

# GET /dept/new

# GET /dept/new.json

def new

@dept = Department.new

@form\_id = 'add-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @dept }

end

end

# Create new Department record.

# POST /dept/create

def create

o = Department.new(:name => params[:name])

if o.save

render :json => { :success => 1,

:message => 'Department was successfully added.' }

else

render :json => DepartmentHelper.get\_errors(o.errors)

end

end

# Display the Department form, with existing record to edit.

# GET /dept/edit/1

# GET /dept/edit/1.json

def edit

@dept = Department.find(params[:id])

@form\_id = 'edit-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @dept }

end

end

# Update Department record.

# POST /dept/update/1

def update

o = Department.find(params[:id])

if o.update\_attributes(:name => params[:name])

render :json => { :success => 1,

:message => 'Department was successfully updated.' }

else

render :json => DepartmentHelper.get\_errors(o.errors)

end

end

# Delete a list of Department records.

# POST /dept/delete

def destroy

keyword = params[:keyword].blank? ? '' : params[:keyword]

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

Department.delete\_all(:id => ids)

itemscount = DepartmentHelper.item\_message(keyword, pgnum, pgsize)

render :json => { :success => 1,

:itemscount => itemscount,

:message => "#{ids.size} Department(s) was successfully deleted." }

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\designation\_controller.rb**

# This controller serves incoming requests to display out the Designation records.

class Admin::DesignationController < Admin::AdminController

# List all records.

# GET /designation

# GET /designation.json

def index

@data = DesignationHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /designation/list

# GET /designation/list.json

def list

find = params[:find].blank? ? 0 : params[:find].to\_i

keyword = params[:keyword].blank? ? '' : params[:keyword]

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? DesignationHelper::DEFAULT\_SORT\_COLUMN

: params[:sortcolumn]

sortdir = params[:sortdir].blank? ? DesignationHelper::DEFAULT\_SORT\_DIR :

params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

if find == 0 && keyword.blank?

@data = DesignationHelper.get\_all(pgnum, pgsize, sort)

else

@data = DesignationHelper.get\_filter\_by(find, keyword, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the Designation form.

# GET /designation/new

# GET /designation/new.json

def new

@designation = Designation.new

@form\_id = 'add-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @designation }

end

end

# Create new Designation record.

# POST /designation/create

def create

o = Designation.new(:title => params[:title], :desc => params[:desc],

:note => params[:note])

if o.save

render :json => { :success => 1,

:message => 'Job Title was successfully added.' }

else

render :json => DesignationHelper.get\_errors(o.errors)

end

end

# Display the Designation form, with existing record to edit.

# GET /designation/edit/1

# GET /designation/edit/1.json

def edit

@designation = Designation.find(params[:id])

@form\_id = 'edit-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @designation }

end

end

# Update Designation record.

# POST /designation/update/1

def update

o = Designation.find(params[:id])

if o.update\_attributes(:title => params[:title], :desc => params[:desc],

:note => params[:note])

render :json => { :success => 1,

:message => 'Job Title was successfully updated.' }

else

render :json => DesignationHelper.get\_errors(o.errors)

end

end

# Delete a list of Designation records.

# POST /designation/delete

def destroy

keyword = params[:keyword].blank? ? '' : params[:keyword]

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

Designation.delete\_all(:id => ids)

itemscount = DesignationHelper.item\_message(keyword, pgnum, pgsize)

render :json => { :success => 1,

:itemscount => itemscount,

:message => "#{ids.size} Job Title(s) was successfully deleted." }

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\employee\_controller.rb**

require 'securerandom'

# This controller serves incoming requests to display out the Employee records.

class Admin::EmployeeController < Admin::AdminController

# List all records.

# GET /employee

# GET /employee.json

def index

@data = EmployeeHelper.get\_all

@employmentstatus = EmploymentStatus.order(:name).all

@designation = Designation.order(:title).all

@dept = Department.order(:name).all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /employee/list

# GET /employee/list.json

def list

employee = params[:employee].blank? ? '' : params[:employee]

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

employment\_status = params[:employment\_status].blank? ? 0 :

params[:employment\_status].to\_i

designation = params[:designation].blank? ? 0 : params[:designation].to\_i

dept = params[:dept].blank? ? 0 : params[:dept].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? EmployeeHelper::DEFAULT\_SORT\_COLUMN

: params[:sortcolumn]

sortdir = params[:sortdir].blank? ? EmployeeHelper::DEFAULT\_SORT\_DIR :

params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

filters = { :employee => employee,

:staff\_id => staff\_id,

:employment\_status => employment\_status,

:designation => designation,

:dept => dept }

if employee.blank? && staff\_id.blank? && employment\_status == 0 && designation == 0 &&

dept == 0

@data = EmployeeHelper.get\_all(pgnum, pgsize, sort)

else

@data = EmployeeHelper.get\_filter\_by(filters, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the Employee form.

# GET /employee/new

# GET /employee/new.json

def new

@employee = Employee.new

@employee\_contact = EmployeeContact.new

@employee\_job = EmployeeJob.new

@employee\_salary = EmployeeSalary.new

@employee\_qualification = EmployeeQualification.new

@form\_id = 'add-form'

@users = User.order(:username).all

@designations = Designation.order(:title).all

@employment\_statuses = EmploymentStatus.order(:name).all

@job\_categories = JobCategory.order(:name).all

@departments = Department.order(:name).all

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @employee }

end

end

# Create new Employee record.

# POST /employee/create

def create

o = EmployeeHelper.employee\_obj(params)

b1 = EmployeeContactHelper.is\_empty\_params?(params)

oc = EmployeeContactHelper.employee\_contact\_obj(o, params)

b2 = EmployeeJobHelper.is\_empty\_params?(params)

oej = EmployeeJobHelper.employee\_job\_obj(o, params)

b3 = EmployeeSalaryHelper.is\_empty\_params?(params)

osa = EmployeeSalaryHelper.employee\_salary\_obj(o, params)

b4 = EmployeeQualificationHelper.is\_empty\_params?(params)

oq = EmployeeQualificationHelper.employee\_qualification\_obj(o, params)

v1 = o.valid?

v2 = b1 ? true : oc.valid?

v3 = b2 ? true : oej.valid?

v4 = b3 ? true : osa.valid?

v5 = b4 ? true : oq.valid?

if !v1 || !v2 || !v3 || !v4 || !v5

employee\_errors = EmployeeHelper.get\_errors(o.errors)

employee\_contact\_errors = EmployeeContactHelper.get\_errors(oc.errors)

employee\_job\_errors = EmployeeJobHelper.get\_errors(oej.errors)

employee\_salary\_errors = EmployeeSalaryHelper.get\_errors(osa.errors)

employee\_qualification\_errors = EmployeeQualificationHelper.get\_errors(oq.errors)

errors = { :error => 1, :employee => employee\_errors,

:employee\_contact => employee\_contact\_errors,

:employee\_job => employee\_job\_errors,

:employee\_salary => employee\_salary\_errors,

:employee\_qualification => employee\_qualification\_errors }

render :json => errors and return

end

ActiveRecord::Base.transaction do

o.save

oc.save if b1

oej.save if b2

osa.save if b3

oq.save if b4

end

render :json => { :success => 1,

:message => 'Employee was successfully added.' }

end

# Display the Employee form, with existing record to edit.

# GET /employee/edit/1

# GET /employee/edit/1.json

def edit

@employee = Employee.find(params[:id])

@employee\_contact = @employee.employee\_contact.blank? ? EmployeeContact.new

: @employee.employee\_contact

@employee\_job = @employee.employee\_job.blank? ? EmployeeJob.new

: @employee.employee\_job

@employee\_salary = @employee.employee\_salary.blank? ? EmployeeSalary.new

: @employee.employee\_salary

@employee\_qualification = @employee.employee\_qualification.blank? ?

EmployeeQualification.new : @employee.employee\_qualification

@form\_id = 'edit-form'

@users = User.order(:username).all

@designations = Designation.order(:title).all

@employment\_statuses = EmploymentStatus.order(:name).all

@job\_categories = JobCategory.order(:name).all

@departments = Department.order(:name).all

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @employee }

end

end

# Update Employee record.

# POST /employee/update

def update

o = Employee.find(params[:id])

oc = o.employee\_contact

oej = o.employee\_job

osa = o.employee\_salary

oq = o.employee\_qualification

oc\_new = false

if oc.blank?

oc = EmployeeContactHelper.employee\_contact\_obj(o, params)

oc\_new = true

end

oej\_new = false

if oej.blank?

oej = EmployeeJobHelper.employee\_job\_obj(o, params)

oej\_new = true

end

osa\_new = false

if osa.blank?

osa = EmployeeSalaryHelper.employee\_salary\_obj(o, params)

osa\_new = true

end

oq\_new = false

if oq.blank?

oq = EmployeeQualificationHelper.employee\_qualification\_obj(o, params)

oq\_new = true

end

b1 = EmployeeContactHelper.is\_empty\_params?(params)

b2 = EmployeeJobHelper.is\_empty\_params?(params)

b3 = EmployeeSalaryHelper.is\_empty\_params?(params)

b4 = EmployeeQualificationHelper.is\_empty\_params?(params)

v1 = o.valid?

v2 = b1 ? true : oc.valid?

v3 = b2 ? true : oej.valid?

v4 = b3 ? true : osa.valid?

v5 = b4 ? true : oq.valid?

if !v1 || !v2 || !v3 || !v4 || !v5

employee\_errors = EmployeeHelper.get\_errors(o.errors)

employee\_contact\_errors = EmployeeContactHelper.get\_errors(oc.errors)

employee\_job\_errors = EmployeeJobHelper.get\_errors(oej.errors)

employee\_salary\_errors = EmployeeSalaryHelper.get\_errors(osa.errors)

employee\_qualification\_errors = EmployeeQualificationHelper.get\_errors(oq.errors)

errors = { :error => 1, :employee => employee\_errors,

:employee\_contact => employee\_contact\_errors,

:employee\_job => employee\_job\_errors,

:employee\_salary => employee\_salary\_errors,

:employee\_qualification => employee\_qualification\_errors }

render :json => errors and return

end

ActiveRecord::Base.transaction do

EmployeeHelper.update\_obj(o, params)

if oc\_new

oc.save

else

EmployeeContactHelper.update\_obj(oc, params)

end

if oej\_new

oej.save

else

EmployeeJobHelper.update\_obj(oej, params)

end

if osa\_new

osa.save

else

EmployeeSalaryHelper.update\_obj(osa, params)

end

if oq\_new

oq.save

else

EmployeeQualificationHelper.update\_obj(oq, params)

end

end

render :json => { :success => 1,

:message => 'Employee was successfully updated.' }

end

# Delete a list of Employee records.

# POST /employee/delete

def destroy

employee = params[:employee].blank? ? '' : params[:employee]

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

employment\_status = params[:employment\_status].blank? ? 0 : params[:employment\_status].to\_i

designation = params[:designation].blank? ? 0 : params[:designation].to\_i

dept = params[:dept].blank? ? 0 : params[:dept].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

Employee.delete\_all(:id => ids)

filters = { :employee => employee,

:staff\_id => staff\_id,

:employment\_status => employment\_status,

:designation => designation,

:dept => dept }

if employee.blank? && staff\_id.blank? && employment\_status == 0 && designation == 0 &&

dept == 0

itemscount = EmployeeHelper.item\_message(nil, pgnum, pgsize)

else

itemscount = EmployeeHelper.item\_message(filters, pgnum, pgsize)

end

render :json => { :success => 1,

:itemscount => itemscount,

:message => "#{ids.size} employee(s) was successfully deleted." }

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\employment\_status\_controller.rb**

# This controller serves incoming requests to display out the EmploymentStatus records.

class Admin::EmploymentStatusController < Admin::AdminController

# List all records.

# GET /empstatus

# GET /empstatus.json

def index

@data = EmploymentStatusHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /empstatus/list

# GET /empstatus/list.json

def list

keyword = params[:keyword].blank? ? '' : params[:keyword]

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? EmploymentStatusHelper::DEFAULT\_SORT\_COLUMN

: params[:sortcolumn]

sortdir = params[:sortdir].blank? ? EmploymentStatusHelper::DEFAULT\_SORT\_DIR

: params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

if keyword.blank?

@data = EmploymentStatusHelper.get\_all(pgnum, pgsize, sort)

else

@data = EmploymentStatusHelper.get\_filter\_by(keyword, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the EmploymentStatus form.

# GET /empstatus/new

# GET /empstatus/new.json

def new

@empstatus = EmploymentStatus.new

@form\_id = 'add-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @empstatus }

end

end

# Create new EmploymentStatus record.

# POST /empstatus/create

def create

o = EmploymentStatus.new(:name => params[:name])

if o.save

render :json => { :success => 1,

:message => 'Employment Status was successfully added.' }

else

render :json => EmploymentStatusHelper.get\_errors(o.errors)

end

end

# Display the EmploymentStatus form, with existing record to edit.

# GET /empstatus/edit/1

# GET /empstatus/edit/1.json

def edit

@empstatus = EmploymentStatus.find(params[:id])

@form\_id = 'edit-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @empstatus }

end

end

# Update EmploymentStatus record.

# POST /empstatus/update/1

def update

o = EmploymentStatus.find(params[:id])

if o.update\_attributes(:name => params[:name])

render :json => { :success => 1,

:message => 'Employment Status was successfully updated.' }

else

render :json => EmploymentStatusHelper.get\_errors(o.errors)

end

end

# Delete a list of EmploymentStatus records.

# POST /empstatus/delete

def destroy

keyword = params[:keyword].blank? ? '' : params[:keyword]

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

EmploymentStatus.delete\_all(:id => ids)

itemscount = EmploymentStatusHelper.item\_message(keyword, pgnum, pgsize)

render :json => { :success => 1,

:itemscount => itemscount,

:message => %Q{#{ids.size} Employment Status(es) was successfully

deleted.} }

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\hourly\_payroll\_chart\_controller.rb**

# This controller serves incoming requests to display Hourly Payroll Chart.

class Admin::HourlyPayrollChartController < Admin::AdminController

# Display the main page.

# GET /hourly/chart

def index

@month\_hash = month\_options

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:chart] }

end

end

# Get the hourly payroll json data to be populated to the chart.

# GET /hourly/chart/data

def data

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

month = params[:month].blank? ? '0' : params[:month]

year = params[:year].blank? ? 0 : params[:year].to\_i

title = 'Hourly Payroll'

yaxis = 'Total Amount (RM)'

months = I18n.t('date.month\_names')

o = Array.new(12) { |x| [months[x + 1], 0] }

b = Array.new(12) { |x| 0 }

categories = Array.new(12) { |x| months[x + 1][0..2] }

if staff\_id.present?

liststaff = [staff\_id]

else

list = PayRate.select('distinct(staff\_id)').all

liststaff = list.collect { |x| x.staff\_id }

end

if year != 0

listyear = [year]

title = "Hourly Payroll for #{year}"

else

list = PayRate.select('distinct(year)').all

listyear = list.collect { |x| x.year }

end

if month != '0'

listmonth = month.collect { |x| x.to\_i }

else

list = PayRate.select('distinct(month)').all

listmonth = list.collect { |x| x.month }

end

listyear.each do |y|

listmonth.each do |m|

liststaff.each do |s|

filters = { :year => y, :month => m, :staff\_id => s }

total\_hours = AttendanceHelper.get\_total\_hours(filters)

rate = PayRateHelper.get\_pay\_rate(filters)

v = total\_hours \* rate

o[m - 1][1] = v

b[m - 1] += v

end

end

end

c = b.collect { |x| x.round(2) }

@data = { :pie => o, :column => { :data => c,

:categories => categories,

:yaxis => yaxis },

:title => title }

render :json => @data

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\job\_category\_controller.rb**

# This controller serves incoming requests to display out the JobCategory records.

class Admin::JobCategoryController < Admin::AdminController

# List all records.

# GET /jobcat

# GET /jobcat.json

def index

@data = JobCategoryHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /jobcat/list

# GET /jobcat/list.json

def list

keyword = params[:keyword].blank? ? '' : params[:keyword]

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? JobCategoryHelper::DEFAULT\_SORT\_COLUMN :

params[:sortcolumn]

sortdir = params[:sortdir].blank? ? JobCategoryHelper::DEFAULT\_SORT\_DIR :

params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

if keyword.blank?

@data = JobCategoryHelper.get\_all(pgnum, pgsize, sort)

else

@data = JobCategoryHelper.get\_filter\_by(keyword, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the JobCategory form.

# GET /jobcat/new

# GET /jobcat/new.json

def new

@jobcat = JobCategory.new

@form\_id = 'add-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @jobcat }

end

end

# Create new JobCategory record.

# POST /jobcat/create

def create

o = JobCategory.new(:name => params[:name])

if o.save

render :json => { :success => 1,

:message => 'Job Category was successfully added.' }

else

render :json => JobCategoryHelper.get\_errors(o.errors)

end

end

# Display the JobCategory form, with existing record to edit.

# GET /jobcat/edit/1

# GET /jobcat/edit/1.json

def edit

@jobcat = JobCategory.find(params[:id])

@form\_id = 'edit-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @jobcat }

end

end

# Update JobCategory record.

# POST /jobcat/update/1

def update

o = JobCategory.find(params[:id])

if o.update\_attributes(:name => params[:name])

render :json => { :success => 1,

:message => 'Job Category was successfully updated.' }

else

render :json => JobCategoryHelper.get\_errors(o.errors)

end

end

# Delete a list of JobCategory records.

# POST /jobcat/delete

def destroy

keyword = params[:keyword].blank? ? '' : params[:keyword]

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

JobCategory.delete\_all(:id => ids)

itemscount = JobCategoryHelper.item\_message(keyword, pgnum, pgsize)

render :json => { :success => 1,

:itemscount => itemscount,

:message => %Q{#{ids.size} Job Categori(es) was successfully

deleted.} }

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\overtime\_chart\_controller.rb**

# This controller serves incoming requests to display Employee Overtime Chart.

class Admin::OvertimeChartController < Admin::AdminController

# Display the main page.

# GET /overtime/chart

def index

@month\_hash = month\_options

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:chart] }

end

end

# Get the overtime json data to be populated to the chart.

# GET /overtime/chart/data

def data

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

month = params[:month].blank? ? '0' : params[:month]

year = params[:year].blank? ? 0 : params[:year].to\_i

criteria = Attendance

title = 'Overtime'

yaxis = 'Duration (hours)'

if staff\_id.present?

criteria = criteria.where(:staff\_id => staff\_id)

end

if year != 0

criteria = criteria.where('year(work\_date) = ?', year)

title = "Overtime for Year #{year}"

end

if month != '0'

criteria = criteria.where('month(work\_date) in (?)', month)

end

list = criteria.order(:work\_date).all

months = I18n.t('date.month\_names')

b = Array.new(12) { |x| 0 }

categories = Array.new(12) { |x| months[x + 1][0..2] }

list.each do |o|

to = ApplicationHelper.localtime(o.time\_out)

v = Time.new(to.year, to.month, to.day, 18, 0, 0, '+08:00')

x = (to - v) / 3600.0

m = o.work\_date.month

if x > 0

b[m - 1] += x

end

end

c = b.collect { |x| x.round(2) }

@data = { :data => c, :categories => categories, :title => title, :yaxis => yaxis }

render :json => @data

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\overtime\_rate\_controller.rb**

# This controller serves incoming requests to display out the OvertimeRate records.

class Admin::OvertimeRateController < Admin::AdminController

# GET /overtimerate

# GET /overtimerate.json

def index

@data = OvertimeRateHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /overtimerate/list

# GET /overtimerate/list.json

def list

year = params[:year].blank? ? 0 : params[:year].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? OvertimeRateHelper::DEFAULT\_SORT\_COLUMN :

params[:sortcolumn]

sortdir = params[:sortdir].blank? ? OvertimeRateHelper::DEFAULT\_SORT\_DIR :

params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

filters = { :year => year }

if year == 0

@data = OvertimeRateHelper.get\_all(pgnum, pgsize, sort)

else

@data = OvertimeRateHelper.get\_filter\_by(filters, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the OvertimeRate form.

# GET /overtimerate/new

# GET /overtimerate/new.json

def new

@rate = OvertimeRate.new

@form\_id = 'add-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @rate }

end

end

# Create new OvertimeRate record.

# POST /overtimerate/create

def create

o = OvertimeRate.new(:duration => params[:duration], :year => params[:year],

:pay\_rate => params[:pay\_rate])

if o.save

render :json => { :success => 1,

:message => 'Overtime Rate successfully added.' }

else

render :json => OvertimeRateHelper.get\_errors(o.errors)

end

end

# Display the OvertimeRate form, with existing record to edit.

# GET /overtimerate/edit/1

# GET /overtimerate/edit/1.json

def edit

@rate = OvertimeRate.find(params[:id])

@form\_id = 'edit-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @rate }

end

end

# Update OvertimeRate record.

# POST /overtimerate/update

def update

o = OvertimeRate.find(params[:id])

if o.update\_attributes(:duration => params[:duration], :year => params[:year],

:pay\_rate => params[:pay\_rate])

render :json => { :success => 1,

:message => 'Pay Rate was successfully updated.' }

else

render :json => OvertimeRateHelper.get\_errors(o.errors)

end

end

# Delete a list of OvertimeRate records.

# POST /overtimerate/delete

def destroy

year = params[:year].blank? ? 0 : params[:year].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

OvertimeRate.delete\_all(:id => ids)

filters = { :year => year }

if year == 0

itemscount = OvertimeRateHelper.item\_message(nil, pgnum, pgsize)

else

itemscount = OvertimeRateHelper.item\_message(filters, pgnum, pgsize)

end

render :json => { :success => 1,

:itemscount => itemscount,

:message => %Q{#{ids.size} Overtime rate(s) was successfully

deleted.} }

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\pay\_rate\_controller.rb**

require 'securerandom'

# This controller serves incoming requests to display out the PayRate records.

class Admin::PayRateController < Admin::AdminController

# GET /payrate

# GET /payrate.json

def index

@data = PayRateHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /payrate/list

# GET /payrate/list.json

def list

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

month = params[:month].blank? ? 0 : params[:month].to\_i

year = params[:year].blank? ? 0 : params[:year].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? PayRateHelper::DEFAULT\_SORT\_COLUMN :

params[:sortcolumn]

sortdir = params[:sortdir].blank? ? PayRateHelper::DEFAULT\_SORT\_DIR : params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

filters = { :staff\_id => staff\_id,

:month => month,

:year => year }

if staff\_id.blank? && month == 0 && year == 0

@data = PayRateHelper.get\_all(pgnum, pgsize, sort)

else

@data = PayRateHelper.get\_filter\_by(filters, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the PayRate form.

# GET /payrate/new

# GET /payrate/new.json

def new

@payrate = PayRate.new

@form\_id = 'add-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @payrate }

end

end

# Create new PayRate record.

# POST /payrate/create

def create

o = PayRate.new(:id => SecureRandom.uuid, :staff\_id => params[:staff\_id],

:month => params[:month], :year => params[:year],

:hourly\_pay\_rate => params[:pay\_rate])

if o.save

render :json => { :success => 1,

:message => 'Pay Rate successfully added.' }

else

render :json => PayRateHelper.get\_errors(o.errors)

end

end

# Display the PayRate form, with existing record to edit.

# GET /payrate/edit/1

# GET /payrate/edit/1.json

def edit

@payrate = PayRate.find(params[:id])

@form\_id = 'edit-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @payrate }

end

end

# Update PayRate record.

# POST /payrate/update

def update

o = PayRate.find(params[:id])

if o.update\_attributes(:staff\_id => params[:staff\_id], :month => params[:month],

:year => params[:year], :hourly\_pay\_rate => params[:pay\_rate])

render :json => { :success => 1,

:message => 'Pay Rate was successfully updated.' }

else

render :json => PayRateHelper.get\_errors(o.errors)

end

end

# Delete a list of PayRate records.

# POST /payrate/delete

def destroy

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

month = params[:month].blank? ? 0 : params[:month].to\_i

year = params[:year].blank? ? 0 : params[:year].to\_i

status = params[:status].blank? ? 0 : params[:status].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

PayRate.delete\_all(:id => ids)

filters = { :staff\_id => staff\_id,

:month => month,

:year => year }

if staff\_id.blank? && month == 0 && year == 0

itemscount = PayRateHelper.item\_message(nil, pgnum, pgsize)

else

itemscount = PayRateHelper.item\_message(filters, pgnum, pgsize)

end

render :json => { :success => 1,

:itemscount => itemscount,

:message => "#{ids.size} pay rate(s) was successfully deleted." }

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\payslip\_controller.rb**

# This controller serves incoming requests to display out the Employee records for pay

# slip generation.

class Admin::PayslipController < Admin::AdminController

# List all records.

# GET /payslip

# GET /payslip.json

def index

@data = EmployeeHelper.get\_all

@employmentstatus = EmploymentStatus.order(:name).all

@designation = Designation.order(:title).all

@dept = Department.order(:name).all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /payslip/list

# GET /payslip/list.json

def list

employee = params[:employee].blank? ? '' : params[:employee]

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

employment\_status = params[:employment\_status].blank? ? 0 :

params[:employment\_status].to\_i

designation = params[:designation].blank? ? 0 : params[:designation].to\_i

dept = params[:dept].blank? ? 0 : params[:dept].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? EmployeeHelper::DEFAULT\_SORT\_COLUMN :

params[:sortcolumn]

sortdir = params[:sortdir].blank? ? EmployeeHelper::DEFAULT\_SORT\_DIR : params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

filters = { :employee => employee,

:staff\_id => staff\_id,

:employment\_status => employment\_status,

:designation => designation,

:dept => dept }

if employee.blank? && staff\_id.blank? && employment\_status == 0 && designation == 0 &&

dept == 0

@data = EmployeeHelper.get\_all(pgnum, pgsize, sort)

else

@data = EmployeeHelper.get\_filter\_by(filters, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the pay slip information.

# GET /payslip/slip/1/1/2012

# GET /payslip/slip/1/1/2012.json

def payslip

@employee = Employee.find(params[:id])

@employee\_salary = @employee.employee\_salary

\_month = params[:month].to\_i

month = month\_name(params[:month].to\_i)

year = params[:year].blank? ? Time.now.year : params[:year].to\_i

@period = "#{month}-#{year}"

if @employee\_salary.blank?

@total\_earnings = 0

@total\_deduct = 0

@nett\_salary = 0

@employee\_salary = EmployeeSalary.new

respond\_to do |fmt|

fmt.html { render 'payslip\_monthly' }

fmt.json { render :json => [@employee, @total\_earnings, @total\_deduct,

@nett\_salary] }

end

else

# checks whether the salary type is monthly

if @employee\_salary.pay\_type == 1

filters = { :year => year, :month => \_month, :staff\_id => @employee.staff\_id }

@total\_overtime = PayslipHelper.total\_overtime(filters)

@total\_overtime\_earnings = PayslipHelper.total\_overtime\_earnings(filters,

@total\_overtime)

@adjustment = SalaryAdjustmentHelper.get\_salary\_adjustment(filters)

@total\_earnings = PayslipHelper.total\_earnings(@employee\_salary, @adjustment,

@total\_overtime\_earnings)

@total\_deduct = PayslipHelper.total\_deductions(@employee\_salary)

@nett\_salary = PayslipHelper.nett\_salary(@total\_earnings, @total\_deduct)

@basic\_pay = @employee\_salary.salary + @adjustment

respond\_to do |fmt|

fmt.html { render 'payslip\_monthly' }

fmt.json { render :json => [@employee, @total\_earnings, @total\_deduct,

@nett\_salary, @total\_overtime,

@total\_overtime\_earnings, @adjustment, @basic\_pay] }

end

# hourly type

else

filters = { :year => year, :month => \_month, :staff\_id => @employee.staff\_id }

@total\_earnings, @total\_hours, @hourly\_pay\_rate =

PayslipHelper.total\_earnings\_hourly(@employee\_salary, filters)

@total\_deduct = PayslipHelper.total\_deductions(@employee\_salary)

@nett\_salary = PayslipHelper.nett\_salary\_hourly(@total\_earnings, @total\_deduct)

respond\_to do |fmt|

fmt.html { render 'payslip\_hourly' }

fmt.json { render :json => [@employee, @total\_earnings, @total\_deduct,

@nett\_salary, @total\_hours, @hourly\_pay\_rate] }

end

end

end

end

end

require 'securerandom'

**E:\workspace\payroll\_rails\app\controllers\admin\salary\_adjustment\_controller.rb**

# This controller serves incoming requests to display out the SalaryAdjustment records.

class Admin::SalaryAdjustmentController < Admin::AdminController

# GET /salaryadj

# GET /salaryadj.json

def index

@data = SalaryAdjustmentHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /salaryadj/list

# GET /salaryadj/list.json

def list

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

month = params[:month].blank? ? 0 : params[:month].to\_i

year = params[:year].blank? ? 0 : params[:year].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? SalaryAdjustmentHelper::DEFAULT\_SORT\_COLUMN :

params[:sortcolumn]

sortdir = params[:sortdir].blank? ? SalaryAdjustmentHelper::DEFAULT\_SORT\_DIR :

params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

filters = { :staff\_id => staff\_id,

:month => month,

:year => year }

if staff\_id.blank? && month == 0 && year == 0

@data = SalaryAdjustmentHelper.get\_all(pgnum, pgsize, sort)

else

@data = SalaryAdjustmentHelper.get\_filter\_by(filters, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the SalaryAdjustment form.

# GET /salaryadj/new

# GET /salaryadj/new.json

def new

@adj = SalaryAdjustment.new

@form\_id = 'add-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @adj }

end

end

# Create new SalaryAdjustment record.

# POST /salaryadj/create

def create

staff\_id = params[:staff\_id]

o = SalaryAdjustment.new(:id => SecureRandom.uuid, :staff\_id => params[:staff\_id],

:inc => params[:inc], :month => params[:month],

:year => params[:year])

if o.save

render :json => { :success => 1,

:message => 'Salary Adjustment successfully added.' }

else

render :json => SalaryAdjustmentHelper.get\_errors(o.errors)

end

end

# Display the SalaryAdjustment form, with existing record to edit.

# GET /salaryadj/edit/1

# GET /salaryadj/edit/1.json

def edit

@adj = SalaryAdjustment.find(params[:id])

@form\_id = 'edit-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @adj }

end

end

# Update SalaryAdjustment record.

# POST /salaryadj/update

def update

o = SalaryAdjustment.find(params[:id])

if o.update\_attributes(:staff\_id => params[:staff\_id], :inc => params[:inc],

:month => params[:month], :year => params[:year])

render :json => { :success => 1,

:message => 'Pay Rate was successfully updated.' }

else

render :json => PayRateHelper.get\_errors(o.errors)

end

end

# Delete a list of SalaryAdjustment records.

# POST /salaryadj/delete

def destroy

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

month = params[:month].blank? ? 0 : params[:month].to\_i

year = params[:year].blank? ? 0 : params[:year].to\_i

status = params[:status].blank? ? 0 : params[:status].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

SalaryAdjustment.delete\_all(:id => ids)

filters = { :staff\_id => staff\_id,

:month => month,

:year => year }

if staff\_id.blank? && month == 0 && year == 0

itemscount = SalaryAdjustmentHelper.item\_message(nil, pgnum, pgsize)

else

itemscount = SalaryAdjustmentHelper.item\_message(filters, pgnum, pgsize)

end

render :json => { :success => 1,

:itemscount => itemscount,

:message => %Q{#{ids.size} salary adjustment(s) was successfully

deleted.} }

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\total\_work\_hours\_chart\_controller.rb**

# This controller serves incoming requests to display Employee Total Hours Worked Chart.

class Admin::TotalWorkHoursChartController < Admin::AdminController

# Display the main page.

# GET /workhours/chart

def index

@month\_hash = month\_options

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:chart] }

end

end

# Get the total hours worked json data to be populated to the chart.

# GET /workhours/chart/data

def data

staff\_id = params[:staff\_id].blank? ? '' : params[:staff\_id]

month = params[:month].blank? ? '0' : params[:month]

year = params[:year].blank? ? 0 : params[:year].to\_i

title = 'Total Hours Worked'

yaxis = 'Duration (hours)'

months = I18n.t('date.month\_names')

b = Array.new(12) { |x| 0 }

categories = Array.new(12) { |x| months[x + 1][0..2] }

if staff\_id.present?

liststaff = [staff\_id]

else

list = PayRate.select('distinct(staff\_id)').all

liststaff = list.collect { |x| x.staff\_id }

end

if year != 0

listyear = [year]

title = "Total Hours Worked for #{year}"

else

list = PayRate.select('distinct(year)').all

listyear = list.collect { |x| x.year }

end

if month != '0'

listmonth = month.collect { |x| x.to\_i }

else

list = PayRate.select('distinct(month)').all

listmonth = list.collect { |x| x.month }

end

listyear.each do |y|

listmonth.each do |m|

liststaff.each do |s|

filters = { :year => y, :month => m, :staff\_id => s }

total\_hours = AttendanceHelper.get\_total\_hours(filters)

v = total\_hours

b[m - 1] += v

end

end

end

c = b.collect { |x| x.round(2) }

@data = { :data => c, :categories => categories, :title => title, :yaxis => yaxis }

render :json => @data

end

end

**E:\workspace\payroll\_rails\app\controllers\admin\user\_controller.rb**

require 'securerandom'

# This controller serves incoming requests to display out the User records.

class Admin::UserController < Admin::AdminController

# List all records.

# GET /user

# GET /user.json

def index

@data = UserHelper.get\_all

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:list] }

fmt.json { render :json => @data }

end

end

# List records by filtering.

# GET /user/list

# GET /user/list.json

def list

username = params[:username].blank? ? '' : params[:username]

role = params[:role].blank? ? 0 : params[:role].to\_i

employee = params[:employee].blank? ? '' : params[:employee]

status = params[:status].blank? ? 0 : params[:status].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

sortcolumn = params[:sortcolumn].blank? ? UserHelper::DEFAULT\_SORT\_COLUMN :

params[:sortcolumn]

sortdir = params[:sortdir].blank? ? UserHelper::DEFAULT\_SORT\_DIR : params[:sortdir]

sort = ApplicationHelper::Sort.new(sortcolumn, sortdir)

filters = { :username => username,

:role => role,

:employee => employee,

:status => status }

if username.blank? && role == 0 && employee.blank? && status == 0

@data = UserHelper.get\_all(pgnum, pgsize, sort)

else

@data = UserHelper.get\_filter\_by(filters, pgnum, pgsize, sort)

end

respond\_to do |fmt|

fmt.html { render :partial => 'list' }

fmt.json { render :json => @data }

end

end

# Display the User form.

# GET /user/new

# GET /user/new.json

def new

@user = User.new

@form\_id = 'add-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @user }

end

end

# Create new User record.

# POST /user/create

def create

status = params[:status]

status = status == '1' ? true : false

o = User.new(:id => SecureRandom.uuid, :role => params[:role],

:username => params[:username], :status => status,

:pwd => params[:pwd], :pwd\_confirmation => params[:pwdconfirm])

if o.save

render :json => { :success => 1,

:message => 'User was successfully added.' }

else

render :json => UserHelper.get\_errors(o.errors)

end

end

# Display the User form, with existing record to edit.

# GET /user/edit/1

# GET /user/edit/1.json

def edit

@user = User.find(params[:id])

@form\_id = 'edit-form'

respond\_to do |fmt|

fmt.html { render :partial => 'form' }

fmt.json { render :json => @user }

end

end

# Update User record.

# POST /user/update

def update

o = User.find(params[:id])

status = params[:status]

status = status == '1' ? true : false

if o.update\_attributes(:role => params[:role], :username => params[:username],

:status => status, :pwd => params[:pwd],

:pwd\_confirmation => params[:pwdconfirm])

render :json => { :success => 1,

:message => 'User was successfully updated.' }

else

render :json => UserHelper.get\_errors(o.errors)

end

end

# Delete a list of User records.

# POST /user/delete

def destroy

username = params[:username].blank? ? '' : params[:username]

role = params[:role].blank? ? 0 : params[:role].to\_i

employee = params[:employee].blank? ? '' : params[:employee]

status = params[:status].blank? ? 0 : params[:status].to\_i

pgnum = params[:pgnum].blank? ? 1 : params[:pgnum].to\_i

pgsize = params[:pgsize].blank? ? 0 : params[:pgsize].to\_i

ids = params[:id]

User.delete\_all(:id => ids)

filters = { :username => username,

:role => role,

:employee => employee,

:status => status }

if username.blank? && role == 0 && employee.blank? && status == 0

itemscount = UserHelper.item\_message(nil, pgnum, pgsize)

else

itemscount = UserHelper.item\_message(filters, pgnum, pgsize)

end

render :json => { :success => 1,

:itemscount => itemscount,

:message => "#{ids.size} user(s) was successfully deleted." }

end

end

**E:\workspace\payroll\_rails\app\controllers\user\contact\_controller.rb**

# This controller serves incoming requests to display out the EmployeeContact record.

class User::ContactController < User::UserController

# Display the contact.

# GET /contact

# GET /contact.json

def index

id = get\_employee\_id

@employee\_contact = EmployeeContactHelper.find(id)

respond\_to do |fmt|

fmt.html

fmt.json { render :json => @employee\_contact }

end

end

# Update the contact.

# POST /contact/update

def update

id = get\_employee\_id

oc = EmployeeContactHelper.find(id)

oc\_new = false

if oc.id.blank?

o = Employee.find(id)

oc = EmployeeContactHelper.employee\_contact\_obj(o, params)

oc\_new = true

end

if oc\_new

if oc.save

render :json => { :success => 1,

:message => 'Contact Details was successfully updated.' }

else

render :json => EmployeeContactHelper.get\_errors(oc.errors)

end

else

if EmployeeContactHelper.update\_obj(oc, params)

render :json => { :success => 1,

:message => 'Contact Details was successfully updated.' }

else

render :json => EmployeeContactHelper.get\_errors(oc.errors)

end

end

end

end

**E:\workspace\payroll\_rails\app\controllers\user\hourly\_payroll\_chart\_controller.rb**

# This controller serves incoming requests to display Hourly Payroll Chart.

class User::HourlyPayrollChartController < User::UserController

# Display the main page.

# GET /hourly/chart

def index

@month\_hash = month\_options

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:chart] }

end

end

# Get the hourly payroll json data to be populated to the chart.

# POST /hourly/chart/data

def data

month = params[:month].blank? ? '0' : params[:month]

year = params[:year].blank? ? 0 : params[:year].to\_i

staff\_id = get\_staff\_id

title = 'Hourly Payroll'

yaxis = 'Total Amount (RM)'

months = I18n.t('date.month\_names')

o = Array.new(12) { |x| [months[x + 1], 0] }

b = Array.new(12) { |x| 0 }

categories = Array.new(12) { |x| months[x + 1][0..2] }

if year != 0

listyear = [year]

title = "Hourly Payroll for #{year}"

else

list = PayRate.select('distinct(year)').all

listyear = list.collect { |x| x.year }

end

if month != '0'

listmonth = month.collect { |x| x.to\_i }

else

list = PayRate.select('distinct(month)').all

listmonth = list.collect { |x| x.month }

end

listyear.each do |y|

listmonth.each do |m|

filters = { :year => y, :month => m, :staff\_id => staff\_id }

total\_hours = AttendanceHelper.get\_total\_hours(filters)

rate = PayRateHelper.get\_pay\_rate(filters)

v = total\_hours \* rate

o[m - 1][1] = v

b[m - 1] += v

end

end

c = b.collect { |x| x.round(2) }

@data = { :pie => o, :column => { :data => c,

:categories => categories,

:yaxis => yaxis },

:title => title }

render :json => @data

end

end

**E:\workspace\payroll\_rails\app\controllers\user\info\_controller.rb**

# This controller serves incoming requests to display out the Employee record.

class User::InfoController < User::UserController

# Display the information.

# GET /info

# GET /info.json

def index

id = get\_employee\_id

@employee = Employee.find(id)

@user = @employee.user

respond\_to do |fmt|

fmt.html

fmt.json { render :json => @employee }

end

end

# Update the information.

# POST /info/update

def update

id = get\_employee\_id

o = Employee.find(id)

if EmployeeHelper.update\_info(o, params)

render :json => { :success => 1,

:message => 'Personal Details was successfully updated.' }

else

render :json => EmployeeHelper.get\_errors(o.errors)

end

end

end

**E:\workspace\payroll\_rails\app\controllers\user\job\_controller.rb**

# This controller serves incoming requests to display out the EmployeeJob record.

class User::JobController < User::UserController

# Display the information.

# GET /job

# GET /job.json

def index

id = get\_employee\_id

@employee\_job = EmployeeJobHelper.find(id)

respond\_to do |fmt|

fmt.html

fmt.json { render :json => @employee\_job }

end

end

end

**E:\workspace\payroll\_rails\app\controllers\user\overtime\_chart\_controller.rb**

# This controller serves incoming requests to display Employee Overtime Chart.

class User::OvertimeChartController < User::UserController

# Display the main page.

# GET /overtime/chart

def index

@month\_hash = month\_options

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:chart] }

end

end

# Get the overtime json data to be populated to the chart.

# GET /overtime/chart/data

def data

month = params[:month].blank? ? '0' : params[:month]

year = params[:year].blank? ? 0 : params[:year].to\_i

staff\_id = get\_staff\_id

criteria = Attendance

title = 'Overtime'

yaxis = 'Duration (hours)'

criteria = criteria.where(:staff\_id => staff\_id)

if year != 0

criteria = criteria.where('year(work\_date) = ?', year)

title = "Overtime for Year #{year}"

end

if month != '0'

criteria = criteria.where('month(work\_date) in (?)', month)

end

list = criteria.order(:work\_date).all

months = I18n.t('date.month\_names')

b = Array.new(12) { |x| 0 }

categories = Array.new(12) { |x| months[x + 1][0..2] }

list.each do |o|

to = ApplicationHelper.localtime(o.time\_out)

v = Time.new(to.year, to.month, to.day, 18, 0, 0, '+08:00')

x = (to - v) / 3600.0

m = o.work\_date.month

b[m - 1] += x

end

c = b.collect { |x| x.round(2) }

@data = { :data => c, :categories => categories, :title => title, :yaxis => yaxis }

render :json => @data

end

end

**E:\workspace\payroll\_rails\app\controllers\user\payslip\_controller.rb**

# This controller serves incoming requests to display out the Employee pay slip.

class User::PayslipController < User::UserController

# Display the main page.

# GET /payslip

def index

respond\_to do |fmt|

fmt.html

end

end

# Display the pay slip information.

# GET /payslip/slip

# GET /payslip/slip.json

def payslip

id = get\_employee\_id

@employee = Employee.find(id)

@employee\_salary = @employee.employee\_salary

\_month = params[:month].to\_i

month = month\_name(params[:month].to\_i)

year = params[:year].blank? ? Time.now.year : params[:year].to\_i

@period = "#{month}-#{year}"

if @employee\_salary.blank?

@total\_earnings = 0

@total\_deduct = 0

@nett\_salary = 0

@employee\_salary = EmployeeSalary.new

respond\_to do |fmt|

fmt.html { render 'admin/payslip/payslip\_monthly' }

fmt.json { render :json => [@employee, @total\_earnings, @total\_deduct,

@nett\_salary] }

end

else

# checks whether the salary type is monthly

if @employee\_salary.pay\_type == 1

filters = { :year => year, :month => \_month, :staff\_id => @employee.staff\_id }

@total\_overtime = PayslipHelper.total\_overtime(filters)

@total\_overtime\_earnings = PayslipHelper.total\_overtime\_earnings(filters,

@total\_overtime)

@adjustment = SalaryAdjustmentHelper.get\_salary\_adjustment(filters)

@total\_earnings = PayslipHelper.total\_earnings(@employee\_salary, @adjustment,

@total\_overtime\_earnings)

@total\_deduct = PayslipHelper.total\_deductions(@employee\_salary)

@nett\_salary = PayslipHelper.nett\_salary(@total\_earnings, @total\_deduct)

@basic\_pay = @employee\_salary.salary + @adjustment

respond\_to do |fmt|

fmt.html { render 'admin/payslip/payslip\_monthly' }

fmt.json { render :json => [@employee, @total\_earnings, @total\_deduct,

@nett\_salary, @total\_overtime,

@total\_overtime\_earnings, @adjustment, @basic\_pay] }

end

# hourly type

else

filters = { :year => year, :month => \_month, :staff\_id => @employee.staff\_id }

@total\_earnings, @total\_hours, @hourly\_pay\_rate =

PayslipHelper.total\_earnings\_hourly(@employee\_salary, filters)

@total\_deduct = PayslipHelper.total\_deductions(@employee\_salary)

@nett\_salary = PayslipHelper.nett\_salary\_hourly(@total\_earnings, @total\_deduct)

respond\_to do |fmt|

fmt.html { render 'admin/payslip/payslip\_hourly' }

fmt.json { render :json => [@employee, @total\_earnings, @total\_deduct,

@nett\_salary, @total\_hours, @hourly\_pay\_rate] }

end

end

end

end

end

**E:\workspace\payroll\_rails\app\controllers\user\qualification\_controller.rb**

# This controller serves incoming requests to display out the EmployeeQualification record.

class User::QualificationController < User::UserController

# Display the qualification.

# GET /qualification

# GET /qualification.json

def index

id = get\_employee\_id

@employee\_qualification = EmployeeQualificationHelper.find(id)

respond\_to do |fmt|

fmt.html

fmt.json { render :json => @employee\_qualification }

end

end

# Update the qualification.

# POST /qualification/update

def update

id = get\_employee\_id

oq = EmployeeQualificationHelper.find(id)

oq\_new = false

if oq.id.blank?

o = Employee.find(id)

oq = EmployeeQualificationHelper.employee\_qualification\_obj(o, params)

oq\_new = true

end

if oq\_new

if oq.save

render :json => { :success => 1,

:message => 'Qualifications was successfully updated.' }

else

render :json => EmployeeQualificationHelper.get\_errors(oq.errors)

end

else

if EmployeeQualificationHelper.update\_obj(oq, params)

render :json => { :success => 1,

:message => 'Qualifications was successfully updated.' }

else

render :json => EmployeeQualificationHelper.get\_errors(oq.errors)

end

end

end

end

**E:\workspace\payroll\_rails\app\controllers\user\salary\_controller.rb**

# This controller serves incoming requests to display out the EmployeeSalary record.

class User::SalaryController < User::UserController

# Display the information.

# GET /salary

# GET /salary.json

def index

id = get\_employee\_id

@employee = Employee.find(id)

@employee\_salary = EmployeeSalaryHelper.find(id)

@adjustment = SalaryAdjustmentHelper.get\_salary\_adjustment(

:staff\_id => @employee.staff\_id, :year => Time.now.year)

@basic\_pay = @employee\_salary.salary + @adjustment

respond\_to do |fmt|

fmt.html

fmt.json { render :json => [@employee\_salary, @adjustment] }

end

end

end

**E:\workspace\payroll\_rails\app\controllers\user\total\_work\_hours\_chart\_controller.rb**

# This controller serves incoming requests to display Employee Total Hours Worked Chart.

class User::TotalWorkHoursChartController < User::UserController

# Display the main page.

# GET /workhours/chart

def index

@month\_hash = month\_options

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:chart] }

end

end

# Get the total hours worked json data to be populated to the chart.

# GET /workhours/chart/data

def data

month = params[:month].blank? ? '0' : params[:month]

year = params[:year].blank? ? 0 : params[:year].to\_i

staff\_id = get\_staff\_id

title = 'Total Hours Worked'

yaxis = 'Duration (hours)'

months = I18n.t('date.month\_names')

b = Array.new(12) { |x| 0 }

categories = Array.new(12) { |x| months[x + 1][0..2] }

liststaff = [staff\_id]

if year != 0

listyear = [year]

title = "Total Hours Worked for #{year}"

else

list = PayRate.select('distinct(year)').all

listyear = list.collect { |x| x.year }

end

if month != '0'

listmonth = month.collect { |x| x.to\_i }

else

list = PayRate.select('distinct(month)').all

listmonth = list.collect { |x| x.month }

end

listyear.each do |y|

listmonth.each do |m|

liststaff.each do |s|

filters = { :year => y, :month => m, :staff\_id => s }

total\_hours = AttendanceHelper.get\_total\_hours(filters)

v = total\_hours

b[m - 1] += v

end

end

end

c = b.collect { |x| x.round(2) }

@data = { :data => c, :categories => categories, :title => title, :yaxis => yaxis }

render :json => @data

end

end

**E:\workspace\payroll\_rails\app\controllers\user\user\_controller.rb**

# User base controller.

# All User controllers must inherit this controller.

# User controller serves incoming requests from an authenticated Normal User.

class User::UserController < ApplicationController

layout false

# checks whether a user is authenticated before serving any request

before\_filter :authenticate\_normal\_user

# Display the user page.

# GET /user/index

def index

id = get\_employee\_id

@employee\_salary = EmployeeSalaryHelper.find(id)

@pay\_type = @employee\_salary.pay\_type

respond\_to do |fmt|

fmt.html { render :layout => LAYOUT[:user] }

end

end

protected

# Returns the employee\_id.

def normal\_user

return unless session[:employee\_id]

@normal\_user ||= session[:employee\_id]

end

# Checks whether a normal user is authenticated.

def authenticate\_normal\_user

unless authenticate

return false

end

logged\_in\_normal\_user? ? true : access\_denied

end

# Checks whether a normal user is logged in.

def logged\_in\_normal\_user?

normal\_user.present?

end

# Returns the employee\_id.

def get\_employee\_id

session[:employee\_id]

end

# Returns the staff\_id.

def get\_staff\_id

session[:staff\_id]

end

helper\_method :normal\_user

helper\_method :logged\_in\_normal\_user

end

**E:\workspace\payroll\_rails\app\helpers\application\_helper.rb**

module ApplicationHelper

# Pager object for paging purpose

class Pager

attr\_accessor :total, :pagenum

attr\_reader :pagesize

@@default\_page\_size = 50

def initialize(total, pagenum, pagesize)

@total = total

@pagenum = pagenum

set\_pagesize(pagesize)

end

def pagesize=(pagesize)

set\_pagesize(pagesize)

end

# Get the paging message.

def item\_message

Utils.item\_message(total, pagenum, pagesize)

end

# Get the lower bound of the page.

def lower\_bound

(pagenum - 1) \* pagesize

end

# Get the upper bound of the page.

def upper\_bound

upperbound = pagenum \* pagesize

if total < upperbound

upperbound = total

end

upperbound

end

# Checks whether the pager has next page.

def has\_next?

total > upper\_bound ? true : false

end

# Checks whether the pager has previous page.

def has\_prev?

lower\_bound > 0 ? true : false

end

# Get the total pages.

def total\_pages

(Float(total) / pagesize).ceil

end

# Get the default page size.

def self.default\_page\_size

@@default\_page\_size

end

private

def set\_pagesize(pagesize)

if (total < pagesize || pagesize < 1) && total > 0

@pagesize = total

else

@pagesize = pagesize

end

if total\_pages < @pagenum

@pagenum = total\_pages

end

if @pagenum < 1

@pagenum = 1

end

end

end

module Utils

require 'time'

# Get the paging message.

def self.item\_message(total, pagenum, pagesize)

x = (pagenum - 1) \* pagesize + 1

y = pagenum \* pagesize

if total < y

y = total

end

if total < 1

return ""

end

"#{x} to #{y} of #{total}"

end

# Checks for numeric.

def self.numeric?(val)

true if Float(val) rescue false

end

end

class Sort

attr\_accessor :column, :direction

def initialize(column, dir = 'ASC')

@column = column

@direction = dir

end

def to\_s

"#{@column} #{@direction}"

end

end

# Get month name for the specified month number,

# e.g return January for 1

def self.month\_name(i)

Date::MONTHNAMES[i]

end

def self.localtime(t)

t.in\_time\_zone('Kuala Lumpur')

end

def self.date\_fmt

'%d-%m-%Y'

end

end

**E:\workspace\payroll\_rails\app\helpers\attendance\_helper.rb**

module AttendanceHelper

DEFAULT\_SORT\_COLUMN = 'work\_date'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all attendance records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = Attendance.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

if sort.column == 'e.first\_name'

criteria = get\_join({}, sort)

else

criteria = Attendance

end

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered attendance records.

def self.get\_filter\_by(filters, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria, order = get\_filter\_criteria(filters, sort)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the total hours worked

def self.get\_total\_hours(filters)

criteria = Attendance.where('year(work\_date) = ? and month(work\_date) = ?',

filters[:year], filters[:month])

if filters[:staff\_id].present?

criteria = criteria.where('staff\_id = ?', filters[:staff\_id])

end

list = criteria.all

total\_hours = 0

list.each do |o|

to = ApplicationHelper.localtime(o.time\_out.localtime)

ti = ApplicationHelper.localtime(o.time\_in.localtime)

total\_hours += (to - ti) / 3600.0

end

total\_hours

end

private

def self.get\_filter\_criteria(filters, sort = nil)

employee\_keyword = "%#{filters[:employee]}%"

order = sort.present? ? sort.to\_s : nil

if filters[:employee].present? || sort.present?

criteria = get\_join(filters, sort)

end

criteria = Attendance if criteria.blank?

if filters[:work\_date].present?

criteria = criteria.where('work\_date = ?', filters[:work\_date])

end

if filters[:employee].present?

criteria = criteria.where(

'e.first\_name like ? or e.middle\_name like ? or e.last\_name like ?',

employee\_keyword, employee\_keyword, employee\_keyword)

end

return criteria, order

end

def self.get\_join(filters, sort = nil)

joinhash = {}

if filters.any?

if filters[:employee].present?

q = Attendance.joins('inner join employee e on attendance.staff\_id = e.staff\_id')

joinhash[:employee] = true

end

end

if sort.present?

if sort.column == 'e.first\_name'

if !joinhash.has\_key?(:employee)

q = Attendance.joins(

'left outer join employee e on attendance.staff\_id = e.staff\_id')

end

end

end

q

end

end

**E:\workspace\payroll\_rails\app\helpers\department\_helper.rb**

module DepartmentHelper

DEFAULT\_SORT\_COLUMN = 'name'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all department records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = Department.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = Department.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered department records.

def self.get\_filter\_by(keyword, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria = Department.where('name like ?', "%#{keyword}%")

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(keyword, pagenum, pagesize)

total = 0

if keyword.blank?

total = Department.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria = Department.where('name like ?', "%#{keyword}%")

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

end

**E:\workspace\payroll\_rails\app\helpers\designation\_helper.rb**

module DesignationHelper

DEFAULT\_SORT\_COLUMN = 'title'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all designation records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = Designation.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = Designation.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered designation records.

def self.get\_filter\_by(find, keyword, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria, order = get\_filter\_criteria(find, keyword, sort)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(keyword, pagenum, pagesize)

total = 0

if keyword.blank?

total = Designation.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria = Designation.where('title like ?', "%#{keyword}%")

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

private

def self.get\_filter\_criteria(find, keyword, sort = nil)

text = "%#{keyword}%"

order = sort.present? ? sort.to\_s : nil

criteria = Designation

case find

when 1

criteria = criteria.where('title like ?', text)

return criteria, order

when 2

criteria = criteria.where('`desc` like ?', text)

return criteria, order

when 3

criteria = criteria.where('note like ?', text)

return criteria, order

else

criteria = criteria.where('title like ? or `desc` like ? or note like ?', text,

text, text)

return criteria, order

end

end

end

**E:\workspace\payroll\_rails\app\helpers\employee\_contact\_helper.rb**

module EmployeeContactHelper

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Checks whether any contact parameters are present in the POST request.

def self.is\_empty\_params?(params)

q = params[:employee\_contact]

if q[:address\_1].blank? && q[:address\_2].blank? && q[:address\_3].blank? &&

q[:city].blank? && q[:state].blank? && q[:postcode].blank? && q[:country].blank? &&

q[:home\_phone].blank? && q[:mobile\_phone].blank? && q[:work\_email].blank? &&

q[:other\_email].blank?

return true

end

false

end

# Get the contact object from the POST request.

def self.employee\_contact\_obj(o, params)

q = params[:employee\_contact]

EmployeeContact.new(:id => o.id, :address\_1 => q[:address\_1],

:address\_2 => q[:address\_2], :address\_3 => q[:address\_3],

:city => q[:city], :state => q[:state], :postcode => q[:postcode],

:country => q[:country], :home\_phone => q[:home\_phone],

:mobile\_phone => q[:mobile\_phone], :work\_email => q[:work\_email],

:other\_email => q[:other\_email])

end

# Update the contact object.

def self.update\_obj(o, params)

q = params[:employee\_contact]

o.update\_attributes(:address\_1 => q[:address\_1], :address\_2 => q[:address\_2],

:address\_3 => q[:address\_3], :city => q[:city],

:state => q[:state], :postcode => q[:postcode],

:country => q[:country], :home\_phone => q[:home\_phone],

:mobile\_phone => q[:mobile\_phone], :work\_email => q[:work\_email],

:other\_email => q[:other\_email])

end

# Get the contact object.

def self.find(id)

o = nil

begin

o = EmployeeContact.find(id)

rescue Exception => e

o = EmployeeContact.new

end

o

end

end

**E:\workspace\payroll\_rails\app\helpers\employee\_helper.rb**

require 'securerandom'

module EmployeeHelper

DEFAULT\_SORT\_COLUMN = 'staff\_id'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all employee records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = Employee.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

if sort.column == 'd.title' || sort.column == 'es.name' ||

sort.column == 'dept.name' || sort.column == 'e.first\_name'

criteria = get\_join({}, sort)

else

criteria = Employee

end

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered employee records.

def self.get\_filter\_by(filters, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria, order = get\_filter\_criteria(filters, sort)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(filters, pagenum, pagesize)

total = 0

if filters.blank?

total = Employee.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria, order = get\_filter\_criteria(filters)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

# Get the employee object from the POST request.

def self.employee\_obj(params)

q = params[:employee]

\_dob = q[:dob]

dob = Date.strptime(\_dob, ApplicationHelper.date\_fmt) if \_dob.present?

Employee.new(:id => SecureRandom.uuid, :staff\_id => q[:staff\_id],

:first\_name => q[:first\_name], :middle\_name => q[:middle\_name],

:last\_name => q[:last\_name], :new\_ic => q[:new\_ic],

:old\_ic => q[:old\_ic], :passport\_no => q[:passport\_no],

:gender => q[:gender], :marital\_status => q[:marital\_status],

:nationality => q[:nationality], :dob => dob,

:place\_of\_birth => q[:place\_of\_birth], :race => q[:race],

:religion => q[:religion], :is\_bumi => q[:is\_bumi],

:user\_id => q[:user\_id])

end

def self.update\_obj(o, params)

q = params[:employee]

\_dob = q[:dob]

dob = Date.strptime(\_dob, ApplicationHelper.date\_fmt) if \_dob.present?

o.update\_attributes(:staff\_id => q[:staff\_id], :first\_name => q[:first\_name],

:middle\_name => q[:middle\_name], :last\_name => q[:last\_name],

:new\_ic => q[:new\_ic], :old\_ic => q[:old\_ic],

:passport\_no => q[:passport\_no], :gender => q[:gender],

:marital\_status => q[:marital\_status],

:nationality => q[:nationality], :dob => dob,

:place\_of\_birth => q[:place\_of\_birth], :race => q[:race],

:religion => q[:religion], :is\_bumi => q[:is\_bumi],

:user\_id => q[:user\_id])

end

# Update the employee object.

def self.update\_info(o, params)

q = params[:employee]

\_dob = q[:dob]

dob = Date.strptime(\_dob, ApplicationHelper.date\_fmt) if \_dob.present?

o.update\_attributes(:first\_name => q[:first\_name], :middle\_name => q[:middle\_name],

:last\_name => q[:last\_name], :new\_ic => q[:new\_ic],

:old\_ic => q[:old\_ic], :passport\_no => q[:passport\_no],

:gender => q[:gender], :marital\_status => q[:marital\_status],

:nationality => q[:nationality], :dob => dob,

:place\_of\_birth => q[:place\_of\_birth], :race => q[:race],

:religion => q[:religion], :is\_bumi => q[:is\_bumi])

end

private

def self.get\_filter\_criteria(filters, sort = nil)

employee\_keyword = "%#{filters[:employee]}%"

staff\_id\_keyword = "%#{filters[:staff\_id]}%"

supervisor\_keyword = "%#{filters[:supervisor]}%"

order = sort.present? ? sort.to\_s : nil

if filters[:employment\_status] != 0 || filters[:designation] != 0 ||

filters[:dept] != 0 || sort.present?

criteria = get\_join(filters, sort)

end

criteria = Employee if criteria.blank?

if filters[:employee].present?

criteria = criteria.where(

'first\_name like ? or middle\_name like ? or last\_name like ?',

employee\_keyword, employee\_keyword, employee\_keyword)

end

if filters[:staff\_id].present?

criteria = criteria.where('staff\_id like ?', staff\_id\_keyword)

end

if filters[:employment\_status] != 0

criteria = criteria.where('es.id = ?', filters[:employment\_status])

end

if filters[:designation] != 0

criteria = criteria.where('d.id = ?', filters[:designation])

end

if filters[:dept] != 0

criteria = criteria.where('dept.id = ?', filters[:dept])

end

return criteria, order

end

def self.get\_join(filters, sort = nil)

joinhash = {}

if filters.any?

if filters[:employment\_status] != 0

q = Employee.joins('inner join employee\_job ej on employee.id = ej.id')

.joins(

'inner join employment\_status es on ej.employment\_status\_id = es.id')

joinhash[:employment\_status] = true

end

if filters[:designation] != 0

if q.blank?

q = Employee.joins('inner join employee\_job ej on employee.id = ej.id')

.joins('inner join designation d on ej.designation\_id = d.id')

else

q = q.joins('inner join designation d on ej.designation\_id = d.id')

end

joinhash[:designation] = true

end

if filters[:dept] != 0

if q.blank?

q = Employee.joins('inner join employee\_job ej on employee.id = ej.id')

.joins('inner join department dept on ej.department\_id = dept.id')

else

q = q.joins('inner join department dept on ej.department\_id = dept.id')

end

joinhash[:dept] = true

end

end

if sort.present?

if sort.column == 'd.title'

if joinhash.has\_key?(:employment\_status) && !joinhash.has\_key?(:designation)

q = q.joins('left outer join designation d on ej.designation\_id = d.id')

elsif !joinhash.has\_key?(:employment\_status) && !joinhash.has\_key?(:designation)

if q.blank?

q = Employee.joins('left outer join employee\_job ej on employee.id = ej.id')

.joins('left outer join designation d on ej.designation\_id = d.id')

else

q = q.joins('left outer join employee\_job ej on employee.id = ej.id')

.joins('left outer join designation d on ej.designation\_id = d.id')

end

end

end

if sort.column == 'es.name'

if !joinhash.has\_key?(:employment\_status)

if q.blank?

q = Employee.joins('left outer join employee\_job ej on employee.id = ej.id')

.joins(

'left outer join employment\_status es on ej.employment\_status\_id = es.id')

else

q = q.joins('left outer join employee\_job ej on employee.id = ej.id')

.joins(

'left outer join employment\_status es on ej.employment\_status\_id = es.id')

end

end

end

end

if sort.column == 'dept.name'

if joinhash.has\_key?(:employment\_status) && !joinhash.has\_key?(:dept)

q = q.joins('left outer join department dept on ej.department\_id = dept.id')

elsif !joinhash.has\_key?(:employment\_status) && !joinhash.has\_key?(:dept)

if q.blank?

q = Employee.joins('left outer join employee\_job ej on employee.id = ej.id')

.joins(

'left outer join department dept on ej.department\_id = dept.id')

else

q = q.joins('left outer join employee\_job ej on employee.id = ej.id')

.joins('left outer join department dept on ej.department\_id = dept.id')

end

end

end

q

end

end

**E:\workspace\payroll\_rails\app\helpers\employee\_job\_helper.rb**

module EmployeeJobHelper

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Checks whether any job parameters are present in the POST request.

def self.is\_empty\_params?(params)

q = params[:employee\_job]

if q[:designation\_id] == '0' && q[:department\_id] == '0' &&

q[:employment\_status\_id] == '0' && q[:job\_category\_id] == '0' &&

q[:join\_date].blank? && q[:confirm\_date].blank?

return true

end

false

end

# Get the job object from the POST request.

def self.employee\_job\_obj(o, params)

q = params[:employee\_job]

\_join\_date = q[:join\_date]

\_confirm\_date = q[:confirm\_date]

join\_date = Date.strptime(\_join\_date,

ApplicationHelper.date\_fmt) if \_join\_date.present?

confirm\_date = Date.strptime(\_confirm\_date,

ApplicationHelper.date\_fmt) if \_confirm\_date.present?

EmployeeJob.new(:id => o.id, :designation\_id => q[:designation\_id],

:department\_id => q[:department\_id],

:employment\_status\_id => q[:employment\_status\_id],

:job\_category\_id => q[:job\_category\_id], :join\_date => join\_date,

:confirm\_date => confirm\_date)

end

# Update the job object.

def self.update\_obj(o, params)

q = params[:employee\_job]

\_join\_date = q[:join\_date]

\_confirm\_date = q[:confirm\_date]

join\_date = Date.strptime(\_join\_date,

ApplicationHelper.date\_fmt) if \_join\_date.present?

confirm\_date = Date.strptime(\_confirm\_date,

ApplicationHelper.date\_fmt) if \_confirm\_date.present?

o.update\_attributes(:designation\_id => q[:designation\_id],

:department\_id => q[:department\_id],

:employment\_status\_id => q[:employment\_status\_id],

:job\_category\_id => q[:job\_category\_id], :join\_date => join\_date,

:confirm\_date => confirm\_date)

end

# Get the job object.

def self.find(id)

o = nil

begin

o = EmployeeJob.find(id)

rescue Exception => e

o = EmployeeJob.new

end

o

end

end

**E:\workspace\payroll\_rails\app\helpers\employee\_qualification\_helper.rb**

module EmployeeQualificationHelper

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Checks whether any qualification parameters are present in the POST request.

def self.is\_empty\_params?(params)

q = params[:employee\_qualification]

if q[:level] == '0' && q[:institute].blank? && q[:major].blank? && q[:year].blank? &&

q[:gpa].blank? && q[:start\_date].blank? && q[:end\_date].blank?

return true

end

false

end

# Get the qualification object from the POST request.

def self.employee\_qualification\_obj(o, params)

q = params[:employee\_qualification]

\_start\_date = q[:start\_date]

\_end\_date = q[:end\_date]

start\_date = Date.strptime(\_start\_date,

ApplicationHelper.date\_fmt) if \_start\_date.present?

end\_date = Date.strptime(\_end\_date, ApplicationHelper.date\_fmt) if \_end\_date.present?

EmployeeQualification.new(:id => o.id, :level => q[:level],

:institute => q[:institute], :major => q[:major],

:year => q[:year], :gpa => q[:gpa],

:start\_date => start\_date, :end\_date => end\_date)

end

# Update the qualification object.

def self.update\_obj(o, params)

q = params[:employee\_qualification]

\_start\_date = q[:start\_date]

\_end\_date = q[:end\_date]

start\_date = Date.strptime(\_start\_date,

ApplicationHelper.date\_fmt) if \_start\_date.present?

end\_date = Date.strptime(\_end\_date, ApplicationHelper.date\_fmt) if \_end\_date.present?

o.update\_attributes(:level => q[:level], :institute => q[:institute],

:major => q[:major], :year => q[:year], :gpa => q[:gpa],

:start\_date => start\_date, :end\_date => end\_date)

end

# Get the contact object.

def self.find(id)

o = nil

begin

o = EmployeeQualification.find(id)

rescue Exception => e

o = EmployeeQualification.new

end

o

end

end

**E:\workspace\payroll\_rails\app\helpers\employee\_salary\_helper.rb**

module EmployeeSalaryHelper

# Get the validation errors

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Checks whether any salary parameters are present in the POST request.

def self.is\_empty\_params?(params)

q = params[:employee\_salary]

if q[:salary].blank? && q[:allowance].blank? && q[:epf].blank? && q[:socso].blank? &&

q[:bank\_name].blank? && q[:bank\_acc\_no].blank? && q[:bank\_acc\_type].blank? &&

q[:bank\_address].blank? && q[:epf\_no].blank? && q[:socso\_no].blank? &&

q[:income\_tax\_no].blank?

return true

elsif q[:salary] == '0' && q[:allowance] == '0' && q[:epf] == '0' &&

q[:socso] == '0' && q[:bank\_name].blank? && q[:bank\_acc\_no].blank? &&

q[:bank\_acc\_type].blank? && q[:bank\_address].blank? && q[:epf\_no].blank? &&

q[:socso\_no].blank? && q[:income\_tax\_no].blank?

return true

end

false

end

# Get the salary object from the POST request.

def self.employee\_salary\_obj(o, params)

q = params[:employee\_salary]

EmployeeSalary.new(:id => o.id, :salary => q[:salary], :allowance => q[:allowance],

:epf => q[:epf], :socso => q[:socso],

:income\_tax => q[:income\_tax], :bank\_name => q[:bank\_name],

:bank\_acc\_no => q[:bank\_acc\_no],

:bank\_acc\_type => q[:bank\_acc\_type],

:bank\_address => q[:bank\_address], :epf\_no => q[:epf\_no],

:socso\_no => q[:socso\_no], :income\_tax\_no => q[:income\_tax\_no],

:pay\_type => q[:pay\_type])

end

# Update the salary object.

def self.update\_obj(o, params)

q = params[:employee\_salary]

o.update\_attributes(:salary => q[:salary], :allowance => q[:allowance],

:epf => q[:epf], :socso => q[:socso],

:income\_tax => q[:income\_tax], :bank\_name => q[:bank\_name],

:bank\_acc\_no => q[:bank\_acc\_no],

:bank\_acc\_type => q[:bank\_acc\_type],

:bank\_address => q[:bank\_address], :epf\_no => q[:epf\_no],

:socso\_no => q[:socso\_no], :income\_tax\_no => q[:income\_tax\_no],

:pay\_type => q[:pay\_type])

end

# Get the salary object.

def self.find(id)

o = nil

begin

o = EmployeeSalary.find(id)

rescue Exception => e

o = EmployeeSalary.new

end

o

end

end

**E:\workspace\payroll\_rails\app\helpers\employment\_status\_helper.rb**

module EmploymentStatusHelper

DEFAULT\_SORT\_COLUMN = 'name'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all employment status records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = EmploymentStatus.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = EmploymentStatus.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered employment status records.

def self.get\_filter\_by(keyword, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria = EmploymentStatus.where('name like ?', "%#{keyword}%")

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(keyword, pagenum, pagesize)

total = 0

if keyword.blank?

total = EmploymentStatus.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria = EmploymentStatus.where('name like ?', "%#{keyword}%")

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

end

**E:\workspace\payroll\_rails\app\helpers\job\_category\_helper.rb**

module JobCategoryHelper

DEFAULT\_SORT\_COLUMN = 'name'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all job category records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = JobCategory.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = JobCategory.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered job category records.

def self.get\_filter\_by(keyword, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria = JobCategory.where('name like ?', "%#{keyword}%")

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(keyword, pagenum, pagesize)

total = 0

if keyword.blank?

total = JobCategory.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria = JobCategory.where('name like ?', "%#{keyword}%")

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

end

**E:\workspace\payroll\_rails\app\helpers\overtime\_chart\_helper.rb**

module OvertimeChartHelper

end

module OvertimeRateHelper

DEFAULT\_SORT\_COLUMN = 'year'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all overtime rate records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = OvertimeRate.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = OvertimeRate.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered overtime rate records.

def self.get\_filter\_by(filters, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria, order = get\_filter\_criteria(filters, sort)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(filters, pagenum, pagesize)

total = 0

if filters.blank?

total = OvertimeRate.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria, order = get\_filter\_criteria(filters)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

private

def self.get\_filter\_criteria(filters, sort = nil)

order = sort.present? ? sort.to\_s : nil

criteria = OvertimeRate

if filters[:year] != 0

criteria = criteria.where(:year => filters[:year])

end

return criteria, order

end

end

**E:\workspace\payroll\_rails\app\helpers\pay\_rate\_helper.rb**

module PayRateHelper

DEFAULT\_SORT\_COLUMN = 'staff\_id'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all pay rate records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = PayRate.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = PayRate.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered pay rate records.

def self.get\_filter\_by(filters, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria, order = get\_filter\_criteria(filters, sort)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(filters, pagenum, pagesize)

total = 0

if filters.blank?

total = PayRate.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria, order = get\_filter\_criteria(filters)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

# Get the pay rate for a staff id in the specified year and month.

def self.get\_pay\_rate(filters)

o = PayRate.where(:staff\_id => filters[:staff\_id])

.where(:year => filters[:year])

.where(:month => filters[:month]).first

rate = 0

rate = o.hourly\_pay\_rate if o.present?

rate

end

private

def self.get\_filter\_criteria(filters, sort = nil)

staff\_id\_keyword = "%#{filters[:staff\_id]}%"

order = sort.present? ? sort.to\_s : nil

criteria = PayRate

if filters[:staff\_id].present?

criteria = criteria.where('staff\_id like ?', staff\_id\_keyword)

end

if filters[:month] != 0

criteria = criteria.where(:month => filters[:month])

end

if filters[:year] != 0

criteria = criteria.where(:year => filters[:year])

end

return criteria, order

end

end

**E:\workspace\payroll\_rails\app\helpers\payslip\_helper.rb**

module PayslipHelper

# Get the total deductions for one employee.

def self.total\_deductions(employee\_salary)

return 0.0 if employee\_salary.blank?

employee\_salary.epf + employee\_salary.socso + employee\_salary.income\_tax

end

# Get the total earnings for one monthly paid employee.

def self.total\_earnings(employee\_salary, adjustment, total\_overtime\_earnings)

return 0.0 if employee\_salary.blank?

amt = employee\_salary.salary + adjustment

amt + employee\_salary.allowance + total\_overtime\_earnings

end

# Get the nett salary for one monthly paid employee.

def self.nett\_salary(earnings, deductions)

earnings - deductions

end

# Get the total earnings for one hourly paid employee.

def self.total\_earnings\_hourly(employee\_salary, filters)

total\_hours = AttendanceHelper.get\_total\_hours(filters)

rate = PayRateHelper.get\_pay\_rate(filters)

earnings = (total\_hours \* rate) + employee\_salary.allowance

return earnings, total\_hours, rate

end

# Get the nett salary for one hourly paid employee.

def self.nett\_salary\_hourly(earnings, deductions)

earnings - deductions

end

# Get the total overtime for a staff id in the specified year and month.

def self.total\_overtime(filters)

year = filters[:year]

month = filters[:month]

id = filters[:staff\_id]

list = Attendance.where(:staff\_id => id)

.where('month(work\_date) = ?', month)

.where('year(work\_date) = ?', year).all

duration = 0

list.each do |o|

to = o.time\_out.localtime

v = Time.new(to.year, to.month, to.day, 18, 0, 0)

x = (to - v) / 3600.0

duration += x

end

duration

end

# Get total overtime earnings for a specified year.

def self.total\_overtime\_earnings(filters, duration)

year = filters[:year]

o = OvertimeRate.where(:year => year).first

total = 0

if o.present?

total = (duration / o.duration) \* o.pay\_rate

end

total

end

end

**E:\workspace\payroll\_rails\app\helpers\salary\_adjustment\_helper.rb**

module SalaryAdjustmentHelper

DEFAULT\_SORT\_COLUMN = 'staff\_id'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all salary adjustment records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = SalaryAdjustment.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = SalaryAdjustment.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered salary adjustment records.

def self.get\_filter\_by(filters, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria, order = get\_filter\_criteria(filters, sort)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(filters, pagenum, pagesize)

total = 0

if filters.blank?

total = SalaryAdjustment.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria, order = get\_filter\_criteria(filters)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

# Get the salary adjustment for a staff id in the specified year.

def self.get\_salary\_adjustment(filters)

o = SalaryAdjustment.where(:staff\_id => filters[:staff\_id])

.where('year <= ?', filters[:year])

.sum('inc')

o.to\_f

end

private

def self.get\_filter\_criteria(filters, sort = nil)

staff\_id\_keyword = "%#{filters[:staff\_id]}%"

order = sort.present? ? sort.to\_s : nil

criteria = SalaryAdjustment

if filters[:staff\_id].present?

criteria = criteria.where('staff\_id like ?', staff\_id\_keyword)

end

if filters[:month] != 0

criteria = criteria.where(:month => filters[:month])

end

if filters[:year] != 0

criteria = criteria.where(:year => filters[:year])

end

return criteria, order

end

end

**E:\workspace\payroll\_rails\app\helpers\user\_helper.rb**

module UserHelper

DEFAULT\_SORT\_COLUMN = 'username'

DEFAULT\_SORT\_DIR = 'ASC'

# Get all user records.

def self.get\_all(pagenum = 1, pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

total = User.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = User.order(order).all(:offset => pager.lower\_bound, :limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get filtered user records.

def self.get\_filter\_by(filters, pagenum = 1,

pagesize = ApplicationHelper::Pager.default\_page\_size,

sort = ApplicationHelper::Sort.new(DEFAULT\_SORT\_COLUMN, DEFAULT\_SORT\_DIR))

criteria, order = get\_filter\_criteria(filters, sort)

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

order = sort.to\_s

has\_next = pager.has\_next? ? 1 : 0

has\_prev = pager.has\_prev? ? 1 : 0

list = criteria.order(order).all(:offset => pager.lower\_bound,

:limit => pager.pagesize)

{ :item\_msg => pager.item\_message,

:hasnext => has\_next,

:hasprev => has\_prev,

:nextpage => pager.pagenum + 1,

:prevpage => pager.pagenum - 1,

:list => list,

:sortcolumn => sort.column,

:sortdir => sort.direction,

:page => pager.pagenum,

:totalpage => pager.total\_pages }

end

# Get the validation errors.

def self.get\_errors(errors)

{ :error => 1, :errors => errors }

end

# Get the item message text.

def self.item\_message(filters, pagenum, pagesize)

total = 0

if filters.blank?

total = User.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

else

criteria = User.where('username like ?', "%#{keyword}%")

total = criteria.count

pager = ApplicationHelper::Pager.new(total, pagenum, pagesize)

return pager.item\_message

end

end

private

def self.get\_filter\_criteria(filters, sort = nil)

employee\_keyword = "%#{filters[:employee]}%"

username\_keyword = "%#{filters[:username]}%"

order = sort.present? ? sort.to\_s : nil

if filters[:employee].present?

criteria = get\_join(filters)

else

criteria = User

end

if filters[:username].present?

criteria = criteria.where('username like ?', username\_keyword)

end

if filters[:role] != 0

criteria = criteria.where(:role => filters[:role])

end

if filters[:employee].present?

criteria = criteria.where(

'e.first\_name like ? or e.middle\_name like ? or e.last\_name like ?',

employee\_keyword, employee\_keyword, employee\_keyword)

end

if filters[:status] != 0

criteria = criteria.where(:status => filters[:status] == 1 ? true : false)

end

return criteria, order

end

def self.get\_join(filters)

if filters[:employee].present?

User.joins('inner join employee e on user.id = e.user\_id')

end

end

end