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class ApplicationController < ActionController::Base
  include AuthenticatedSystem

  if LOG_DETAIL
    include Oink::MemoryUsageLogger
    include Oink::InstanceTypeCounter
  end

  helper :all # include all helpers, all the time

  prepend_before_filter :login_required

  protect_from_forgery

  # purge "password" from logs
  filter_parameter_logging :password

  # rescue errors and return HTTP status codes
  rescue_from 'PermissionError' do |e| http_status_code(:forbidden, e) end
  rescue_from 'ArgumentError' do |e| http_status_code(:expectation_failed, e)
end
  rescue_from ActiveRecord::RecordNotFound do |e| http_status_code(:bad_request,
e) end
  rescue_from ActiveRecord::RecordInvalid do |e| http_status_code(:bad_request,
e) end
  rescue_from LibXML::XML::Error do |e| http_status_code(:bad_request, e) end
  rescue_from REXML::ParseException do |e| http_status_code(:bad_request, e) end

  if ENV['RAILS_ENV'] == 'production'
    rescue_from Exception do |e| notify_and_handle(e) end
  end

  def http_status_code(status, exception)
    respond_to do |format|
      format.any { head status }
    end
  end

  def force_xml
    params.merge!(:format => :xml) unless params.include?(:format)
  end

  def admin_required
    redirect_back_or_default('/') unless current_user && current_user.admin?
  end

  private
  def notify_and_handle(e)
    @requested_page= e.to_s
    if e.class == ActionController::RoutingError || e.class ==
ActionController::UnknownAction
      @error = "File or location does not exist."
      render :template => '/home/error'
    else
      SystemNotifier.deliver_exception(self, request, current_visit, e)
    end
  end
end

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        flash.now[:error] = "We encountered an internal error. We have been
notified and are working to fix the problem."
        render :template => '/home/index'
    end
end
end
class HomeController < ApplicationController
  skip_before_filter :login_required, :only => [:learn, :api, :about]

  def index
  end

  def api
  end

  def about
  end

  def learn
  end

  # Delete all data associated with the logged in user.
  def delete
    if request.post?
      current_user.destroy_data
      flash[:notice] = 'All data destroyed.'
    end
    redirect_to root_path
  end

  # Delete all items associated with the logged in user.
  def delete_items
    if request.post?
      current_user.destroy_items
      flash[:notice] = 'All item data destroyed.'
    end
    redirect_to root_path
  end
end
class ItemsController < ApplicationController
  include Algorithms::Rank::Elo

  before_filter :force_xml

  # GET /items/1
  # ==== Return
  # Item by id.
  # ==== Options (params)
  # id<String>:: Converted to integer. ID of item.
  # ==== Raises
  # PermissionError:: If item does not belong to user.
  def show
    @item = Item.find(params[:id], :conditions => { :user_id => current_user.id
}, :include => [ :questions ])
  end
end

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# POST /items/add
# ==== Return
# Added Item.
# ==== Options (params)
# active<String>:: Converted to boolean. If not nil item is activated.
# tracking<String>:: String of data to be stored with item.
# ==== Post
# Formatted XML of item to add and question to add item to.
# ==== Raises
# PermissionError:: If any questions do not belong to user.
def add
  return unless request.post?
  xml = LibXML::XML::Parser.parse(request.raw_post)
  active = !params[:active].nil?
  @items = xml.find("/items/item").inject([]) do |items, item|
    questions = item.find("questions/question").inject([]) do |arr, question|
      arr << current_user.questions.find(question.attributes["id"])
    end
    attributes = {:user_id => current_user.id, :data =>
item.find("data").first.content, :active => active}
    attributes.merge!(:tracking => params[:tracking]) if params[:tracking]
    current_item = Item.create(attributes)
    current_item.questions << questions
    items << current_item
  end
end

# POST /items/delete
# ==== Return
# ID of item deleted and whether or not item was succesfully deleted.
# ==== Options (params)
# id<String>:: Converted to integer. ID of item.
# ==== Raises
# PermissionError:: If item does not belong to user.
def delete
  return unless request.post?
  item = Item.find(@id = params[:id], :conditions => { :user_id =>
current_user.id })
  item.destroy
  @success = !Item.exists?(@id)
end

# GET /items/list
# ==== Return
# Array of items.
# ==== Options (params)
# limit<String>:: Converted to integer. Number of items to return.
# offset<String>:: Converted to integer. Item to begin returning with.
# order<String>:: Order to return items. If ASC items returned in ascending
# order, otherwise items returned in descending order.
# question_id<String>:: Converted to integer. Question to return items for.
# data<String>:: Converted to boolean. If exists return data for items.
# rank_algorithm<String>:: Name or ID of rank algorithm. Default order is
# by created at date.
# ==== Raises

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# PermissionError:: If question does not belong to user.
def list
  limit = params[:limit].to_i
  offset = params[:offset].to_i
  order = (params[:order] && params[:order].downcase == 'asc') ? 'ASC' :
'DESC'
  question_id = params[:question_id].to_i
  options = {
    :conditions => { :user_id => current_user.id },
    :include => [:items_questions]
  }
  options[:limit] = limit if limit > 0
  options[:offset] = offset if offset > 0
  if question_id > 0
    raise PermissionError unless
current_user.question_ids.include?(question_id)
    options[:joins] = "INNER JOIN items_questions ON
items.id=items_questions.item_id AND items_questions.question_id=#{question_id}"
  end
  @data = !params[:data].nil?
  rank_algo = params[:rank_algorithm]
  rank_algo_id = rank_algo.to_i
  if rank_algo_id == 0 && !(rank_algo.nil? || rank_algo.blank?)
    rank_algo = RankAlgorithm.first(:conditions => { :name => rank_algo })
    rank_algo_id = rank_algo.id if rank_algo
  end
  case rank_algo_id
  when 1
    options[:order] = 'items_questions.position'
    @score = lambda { |i| i.items_questions.first.position }
  when 2
    options[:order] = 'items_questions.wins / (items_questions.wins +
items_questions.losses)'
  when 3
    # calculate expected winning percentage as (1/n)SUM_j(||i>j||/||i,j||)
    options.delete(:limit)
    @items = Item.all(options)
#    prompt_options = {
#      :include => [:items, { :vote => :items }],
#      :conditions => "votes.id IS NOT NULL AND
items.user_id=#{current_user.id}"
#    }
#    prompt_options[:conditions] += " AND question_id=#{question_id}" if
question_id > 0
#    prompts = Prompt.all(prompt_options)
#    stat_options = { :select => "stats.votes, items_stats2.item_id" }
#    stat_options[:conditions] = { :question_id => question_id } if question_id
> 0
    prompt_options = {
      :select => "COUNT(items_prompts.item_id) AS wins,
items_prompts.item_id",
      :group => "items_prompts.item_id"
    }
    for item in @items

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        i_cmp = Stat.all(stat_options.merge(:joins => "INNER JOIN items_stats ON
(items_stats.stat_id=stats.id
    AND items_stats.item_id=#{item.id}) INNER JOIN items_stats AS
items_stats2
    ON (items_stats2.stat_id=stats.id AND
items_stats2.item_id!=#{item.id})"
    ).inject({}) do |hash, stat|
        hash[stat.item_id.to_i] = stat.votes.to_f
        hash
    end
    i_wins = Prompt.all(prompt_options.merge(:joins => "INNER JOIN
items_prompts ON (items_prompts.prompt_id=prompts.id
    AND items_prompts.item_id!=#{item.id}) INNER JOIN votes ON
    (votes.prompt_id=prompts.id) INNER JOIN items_votes ON
(items_votes.vote_id=votes.id
    AND items_votes.item_id=#{item.id})"
    ).inject({}) do |hash, prompt|
        hash[prompt.item_id.to_i] = prompt.wins.to_i
        hash
    end
    cmp = 0
    item.score = (@items - [item]).inject(0) do |sum, j_item|
        i_j_cmp = i_cmp[j_item.id]
        if i_j_cmp && i_j_cmp > 0
            cmp += 1
            wins = i_wins[j_item.id]
            wins ? sum + wins / i_j_cmp : sum
        else
            sum
        end
    end
    item.score = (100 * (item.score / cmp)).round if cmp > 0
end
@items = @items.sort_by { |el| -el.score }
@items = @items.first(limit) if limit > 0
@score = lambda do |i|
    i.score
end
else
    options[:order] = 'items.created_at'
end
unless @score
    @score = lambda do |i|
        iq = i.items_questions.first
        total = iq.wins + iq.losses
        total.zero? ? 0 : (100 * (iq.wins.to_f/(total))).round
    end
end
unless @items
    options[:order] += " #{order}"
    @items = Item.all(options)
end
end
# GET /items/suspend/1

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# ==== Return
# Item in suspended state.
# ==== Options (params)
# id<String>:: Converted to integer. ID of item.
# ==== Raises
# PermissionError:: If item does not belong to user.
def suspend
  update_item_state(params[:id], 0)
end

# GET /items/activate/1
# ==== Return
# Item in active state.
# ==== Options (params)
# id<String>:: Converted to integer. ID of item.
# ==== Raises
# PermissionError:: If item does not belong to user.
def activate
  update_item_state(params[:id], 1)
end

private
def update_item_state(id, state)
  @item = Item.find(id, :conditions => { :user_id => current_user.id })
  @item.update_attribute(:active, state)
  render :action => 'show'
  return
end
endclass PromptAlgorithmsController < ApplicationController
  before_filter :force_xml, :only => :list
  before_filter :admin_required, :except => :list

  # GET /prompt_algorithms
  # GET /prompt_algorithms.xml
  def index
    @prompt_algorithms = PromptAlgorithm.find(:all)

    respond_to do |format|
      format.html # index.html.erb
      format.xml { render :xml => @prompt_algorithms }
    end
  end

  # GET /prompt_algorithms/1
  # GET /prompt_algorithms/1.xml
  def show
    @prompt_algorithm = PromptAlgorithm.find(params[:id])

    respond_to do |format|
      format.html # show.html.erb
      format.xml { render :xml => @prompt_algorithm }
    end
  end

  # GET /prompt_algorithms/new

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# GET /prompt_algorithms/new.xml
def new
  @prompt_algorithm = PromptAlgorithm.new

  respond_to do |format|
    format.html # new.html.erb
    format.xml { render :xml => @prompt_algorithm }
  end
end

# GET /prompt_algorithms/1/edit
def edit
  @prompt_algorithm = PromptAlgorithm.find(params[:id])
end

# POST /prompt_algorithms
# POST /prompt_algorithms.xml
def create
  @prompt_algorithm = PromptAlgorithm.new(params[:prompt_algorithm])

  respond_to do |format|
    if @prompt_algorithm.save
      flash[:notice] = 'PromptAlgorithm was successfully created.'
      format.html { redirect_to(@prompt_algorithm) }
      format.xml { render :xml => @prompt_algorithm, :status => :created,
:location => @prompt_algorithm }
    else
      format.html { render :action => "new" }
      format.xml { render :xml => @prompt_algorithm.errors, :status =>
:unprocessable_entity }
    end
  end
end

# PUT /prompt_algorithms/1
# PUT /prompt_algorithms/1.xml
def update
  @prompt_algorithm = PromptAlgorithm.find(params[:id])

  respond_to do |format|
    if @prompt_algorithm.update_attributes(params[:prompt_algorithm])
      flash[:notice] = 'PromptAlgorithm was successfully updated.'
      format.html { redirect_to(@prompt_algorithm) }
      format.xml { head :ok }
    else
      format.html { render :action => "edit" }
      format.xml { render :xml => @prompt_algorithm.errors, :status =>
:unprocessable_entity }
    end
  end
end

# DELETE /prompt_algorithms/1
# DELETE /prompt_algorithms/1.xml
def destroy

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    @prompt_algorithm = PromptAlgorithm.find(params[:id])
    @prompt_algorithm.destroy

    respond_to do |format|
      format.html { redirect_to(prompt_algorithms_url) }
      format.xml { head :ok }
    end
  end

  # GET /prompt_algorithms/list
  def list
    @algorithms = PromptAlgorithm.all
  end
endclass PromptsController < ApplicationController
  before_filter :force_xml

  # GET /prompts/1
  # ==== Return
  # Prompt.
  # ==== Options (params)
  # id<String>:: Converted to integer. ID of prompt.
  # ==== Raises
  # PermissionError:: If prompt does not belong to user.
  def show
    @prompt = Prompt.find(params[:id])
    raise PermissionError unless
current_user.question_ids.include?(@prompt.question_id)
  end

  # GET /prompts/view/1
  # ==== Return
  # Nothing.
  # ==== Options (params)
  # id<String>:: Converted to integer. ID of prompt to register view for.
  # ==== Raises
  # PermissionError:: If prompt does not belong to user.
  def view
    prompt = Prompt.find(params[:id])
    raise PermissionError unless
current_user.question_ids.include?(prompt.question_id)
    Stat.view(prompt.question_id, prompt.items)
    head :ok
  end

  # GET /prompts/list
  # ==== Return
  # Array of length n. Prompts matching parameters
  # ==== Options (params)
  # question_id<String>:: Converted to integer. Must be greater than 0 and
  # belong to the current user. Must belong to user.
  # item_ids<String>:: Comma seperated list of items to include. May only
  # include commas and digits. Must belong to user. Optional value.
  # data<String>:: Flag for whether to include item data. Data included
  # if value is not nil.
  # ==== Raises

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# PermissionError:: If question or any item doesn't belong to current user.
def list
  question_id = params[:question_id].to_i
  item_ids = params[:item_id]
  @data = !params[:data].nil?
  item_ids = valid_item_ids(item_ids)
  options = { :include => :items, :conditions => {} }
  if question_id > 0
    options[:conditions].merge!('prompts.question_id' => question_id)
    raise PermissionError unless
current_user.question_ids.include?(question_id)
    unless item_ids.empty?
      raise PermissionError unless (item_ids - current_user.item_ids).empty?
      options[:conditions].merge!({ 'items.id' => item_ids })
    end
    @prompts = Prompt.all(options)
  else
    @prompts = []
  end
end

# GET /prompts/create
# ==== Return
# Array of length n. Prompts created for the question and voter.
# ==== Options (params)
# question_id<String>:: Converted to integer. Must be greater than 0 and
belong to the current user.
# voter_id<String>:: Converted to integer. Must be 0 or belong to the current
user.
# n<String>:: Converted to integer. Set to 1 if less than 1. Set to
MAX_BATCH_PROMPTS if greater
# than MAX_BATCH_PROMPTS.
# item_id<String>:: Nil or comma seperated list of items to include in the
prompt.
# be returned.
# ==== Raises
# ArgumentError:: If question less than 1 or doesnt belong to current user or
if voter greater than 0
# and doesn't belong to current user.
def create
  @question_id = params[:question_id].to_i
  voter_id = params[:voter_id].to_i
  num = params[:n].to_i
  prime = params[:prime].to_i > 0
  @data = !params[:data].nil?
  if num < 1
    num = 1
  elsif num > Constants::MAX_BATCH_PROMPTS
    num = Constants::MAX_BATCH_PROMPTS
  end
  raise ArgumentError unless current_user.questions.exists?(@question_id) &&
(voter_id < 1 || current_user.voters.exists?(voter_id))
  @prompt_item_ids = Prompt.fetch(@question_id, voter_id, num, prime)
  @algorithm_id = prime ? 3 : 2
  raise ArgumentError if @prompt_item_ids.keys.empty?

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end

private
  # If non ",", or digit is passed as an "item_id" param all item params are
  ignored
  def valid_item_ids(item_ids)
    (item_ids && !item_ids.empty? && item_ids.gsub(/,|\d/, '').empty?) ?
    item_ids.split(',').map(&:to_i) : []
  end
endclass QuestionsController < ApplicationController
  before_filter :force_xml

  # GET /questions/1
  # ==== Return
  # Question and stats.
  # ==== Options (params)
  # id<String>:: Converted to integer. ID of question.
  # ==== Raises
  # PermissionError:: If question does not belong to user.
  def show
    @question = Question.first(:conditions => { :id => params[:id], :user_id =>
current_user.id })
    if @question
      @items_count = Item.count(
        :joins => "INNER JOIN items_questions ON
(items_questions.item_id=items.id AND
items_questions.question_id=#{@question.id})",
        :conditions => { :active => true }
      )
      @all_items_count = Item.count(:joins => "INNER JOIN items_questions ON
(items_questions.item_id=items.id AND
items_questions.question_id=#{@question.id})")
      @votes_count = Prompt.count(:joins => "INNER JOIN votes ON
(votes.prompt_id=prompts.id)", :conditions => { :question_id => @question.id })
    end
  end

  # POST /questions/add
  # ==== Return
  # Added question.
  # ==== Post
  # Formatted XML of question to add.
  def add
    return unless request.post?
    xml = LibXML::XML::Parser.parse(request.raw_post)
    @questions = []
    xml.find("/questions/question").each do |question|
      @questions << Question.create(:user_id => current_user.id, :name =>
question.content)
    end
    GC.start
  end

  # POST /questions/delete
  # ==== Return

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# Question and deletion status.
# ==== Options (params)
# id<String>:: Converted to integer. ID of question.
# ==== Raises
# PermissionError:: If question does not belong to user.
def delete
  return unless request.post?
  question = Question.find(@id = params[:id], :conditions => { :user_id =>
current_user.id })
  question.destroy
  @success = !Question.exists?(@id)
end

# GET /questions/list
# ==== Return
# Array of user questions.
def list
  @questions = current_user.questions
  @items_count = Item.count(:conditions => { :user_id => current_user.id,
:active => true })
  @all_items_count = Item.count(:conditions => { :user_id => current_user.id
})
  @votes_count = Prompt.count(:joins => "INNER JOIN votes ON
(votes.prompt_id=prompts.id)", :conditions => { :question_id =>
current_user.question_ids })
end
endclass RankAlgorithmsController < ApplicationController
  before_filter :force_xml, :only => :list
  before_filter :admin_required, :except => :list

# GET /rank_algorithms
# GET /rank_algorithms.xml
def index
  @rank_algorithms = RankAlgorithm.find(:all)

  respond_to do |format|
    format.html # index.html.erb
    format.xml { render :xml => @rank_algorithms }
  end
end

# GET /rank_algorithms/1
# GET /rank_algorithms/1.xml
def show
  @rank_algorithm = RankAlgorithm.find(params[:id])

  respond_to do |format|
    format.html # show.html.erb
    format.xml { render :xml => @rank_algorithm }
  end
end

# GET /rank_algorithms/new
# GET /rank_algorithms/new.xml
def new

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@rank_algorithm = RankAlgorithm.new

respond_to do |format|
  format.html # new.html.erb
  format.xml { render :xml => @rank_algorithm }
end
end

# GET /rank_algorithms/1/edit
def edit
  @rank_algorithm = RankAlgorithm.find(params[:id])
end

# POST /rank_algorithms
# POST /rank_algorithms.xml
def create
  @rank_algorithm = RankAlgorithm.new(params[:rank_algorithm])

  respond_to do |format|
    if @rank_algorithm.save
      flash[:notice] = 'RankAlgorithm was successfully created.'
      format.html { redirect_to(@rank_algorithm) }
      format.xml { render :xml => @rank_algorithm, :status => :created,
:location => @rank_algorithm }
    else
      format.html { render :action => "new" }
      format.xml { render :xml => @rank_algorithm.errors, :status =>
:unprocessable_entity }
    end
  end
end

# PUT /rank_algorithms/1
# PUT /rank_algorithms/1.xml
def update
  @rank_algorithm = RankAlgorithm.find(params[:id])

  respond_to do |format|
    if @rank_algorithm.update_attributes(params[:rank_algorithm])
      flash[:notice] = 'RankAlgorithm was successfully updated.'
      format.html { redirect_to(@rank_algorithm) }
      format.xml { head :ok }
    else
      format.html { render :action => "edit" }
      format.xml { render :xml => @rank_algorithm.errors, :status =>
:unprocessable_entity }
    end
  end
end

# DELETE /rank_algorithms/1
# DELETE /rank_algorithms/1.xml
def destroy
  @rank_algorithm = RankAlgorithm.find(params[:id])
  @rank_algorithm.destroy
end

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    respond_to do |format|
      format.html { redirect_to(rank_algorithms_url) }
      format.xml { head :ok }
    end
  end

  # GET /rank_algorithms/list
  def list
    @algorithms = RankAlgorithm.all
  end
end# This controller handles the login/logout function of the site.
class SessionsController < ApplicationController
  skip_before_filter :login_required

  # render new.rhtml
  def new
  end

  def create
    logout_keeping_session!
    user = User.authenticate(params[:login], params[:password])
    if user
      # Protects against session fixation attacks, causes request forgery
      # protection if user resubmits an earlier form using back
      # button. Uncomment if you understand the tradeoffs.
      # reset_session
      self.current_user = user
      new_cookie_flag = (params[:remember_me] == "1")
      handle_remember_cookie! new_cookie_flag
      redirect_back_or_default('/')
      flash[:notice] = "Logged in successfully"
    else
      note_failed_signin
      @login = params[:login]
      @remember_me = params[:remember_me]
      render :action => 'new'
    end
  end

  def destroy
    logout_killing_session!
    flash[:notice] = "You have been logged out."
    redirect_back_or_default('/')
  end

  protected
  # Track failed login attempts
  def note_failed_signin
    flash[:error] = "Couldn't log you in as '#{params[:login]}'"
    logger.warn "Failed login for '#{params[:login]}' from
#{request.remote_ip} at #{Time.now.utc}"
  end
end
class UsersController < ApplicationController
  skip_before_filter :login_required

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    before_filter :admin_required, :only => [:index, :suspend, :unsuspend,
:destroy, :purge]
    before_filter :find_user, :only => [:suspend, :unsuspend, :destroy, :purge]
    before_filter :force_xml, :only => :add

    def index
      @users = User.find(:all)
    end

    # render new.rhtml
    def new
      @user = User.new
    end

    # Create user account but do not give out activation code.
    def create
      logout_keeping_session!
      @user = User.new(params[:user])
      @user.register! if @user && @user.valid?
      success = @user && @user.valid?
      if success && @user.errors.empty?
        # UserMailer.deliver_signup_notification(@user)
        UserMailer.deliver_admin_notification(@user)
        redirect_back_or_default('/')
        flash[:notice] = "Thanks for signing up! We'll send an email upon account
activation."
      else
        @user.password = @user.password_confirmation = nil
        flash[:error] = "We couldn't set up that account, sorry. Please try
again, or contact an admin (link is above)."
        render :action => 'new'
      end
    end

    def add
      return unless request.post? && params[:key] && Base64.decode64(params[:key])
== Constants::USER_KEY
      xml = LibXML::XML::Parser.parse(request.raw_post)
      password = Base64.decode64(xml.find("/user/password").first.content)
      @user = User.new(:login => xml.find("/user/login").first.content,
        :email => xml.find("/user/email").first.content,
        :password => password, :password_confirmation => password)
      @user.register! if @user && @user.valid?
      success = @user && @user.valid?
      if success && @user.errors.empty?
        @user.activate!
        UserMailer.deliver_admin_notification(@user)
      end
    end

    def activate
      logout_keeping_session!
      user = User.find_by_activation_code(params[:id]) unless params[:id].blank?
      case
      when (!params[:id].blank?) && user && !user.active?

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        user.activate!
        flash[:notice] = "Signup complete! Please sign in to continue."
        redirect_to '/login'
    when params[:id].blank?
        flash[:error] = "The activation code was missing. Please follow the URL
from your email."
        redirect_back_or_default('/')
    else
        flash[:error] = "We couldn't find a user with that activation code --
check your email? Or maybe you've already activated -- try signing in."
        redirect_back_or_default('/')
    end
end

def suspend
  @user.suspend!
  redirect_to users_path
end

def unsuspend
  @user.unsuspend!
  redirect_to users_path
end

def destroy
  @user.delete!
  redirect_to users_path
end

def purge
  @user.destroy
  redirect_to users_path
end

protected
  def find_user
    @user = User.find(params[:id])
  end
end
class VotersController < ApplicationController
  before_filter :force_xml

  # POST /voters/add
  # ==== Return
  # Added voter.
  # ==== Post
  # XML of voter to add.
  def add
    return unless request.post?
    xml = LibXML::XML::Parser.parse(request.raw_post)
    @voters = xml.find("/voters/voter").inject([]) do |voters, voter|
      cur_voter = Voter.create(:user_id => current_user.id)
      voter.find("features/feature").each do |feature|
        Feature.create(:voter_id => cur_voter.id, :name =>
feature.attributes["name"], :value => feature.content.to_i)
      end
    end
  end
end

```

```

        voters << cur_voter
    end
end

# GET /voters/list
# ==== Return
# List of user's voters.
def list
    @voters = Voter.all(:conditions => { :user_id => current_user.id }, :include
=> :features)
end

# GET /voters/set/1
# ==== Return
# Voter.
# ==== Options (params)
# id<String>:: Converted to integer. Id of voter to set. Must belong to user.
# {}<Hash>:: Name, value pairs of features to set. Any non spaces or
# alphanumerics plus _ are removed from name.
# ==== Raises
# PermissionError:: If voter does not belong to user.
def set
    p = params.clone
    @voter = Voter.find(p.delete(:id).to_i, :conditions => { :user_id =>
current_user.id }, :include => :features)
    raise PermissionError unless @voter
    p.delete(:action)
    p.delete(:controller)
    p.delete(:format)
    p.each do |name, value|
        # only space, alphanumerics, or _
        name = name.gsub(/^[^'\ |\w)]/, '')
        feature = Feature.first(:conditions => { :voter_id => @voter.id, :name =>
name })
        if feature
            feature.update_attribute(:value, value.to_i)
        else
            feature = Feature.new(:name => name, :value => value.to_i)
            @voter.features << feature
        end
    end
end
end

endclass VotesController < ApplicationController
    before_filter :force_xml

    # GET /votes/list
    # ==== Return
    # Array of votes.
    # ==== Options (params)
    # question_id<String>:: Converted to integer. Optional question id of votes.
    # item_id<String>:: Converted to integer. Optional item id of votes. Must
    # belong to user.
    # ==== Raises
    # PermissionError:: If question of item does not belong to user.
    def list

```



```

    conditions = { 'questions.user_id' => current_user.id }
    conditions.merge!('questions.id' => params[:question_id]) if
params[:question_id].to_i > 0
    item_id = params[:item_id].to_i
    conditions.merge!('items_prompts.item_id' => item_id) if item_id > 0
    options = {
      :include => [{:prompt => [:items, :question]}],
      :conditions => conditions,
      :order => 'votes.id'
    }
    options[:limit] = params[:limit] if params[:limit].to_i > 0
    @votes = Vote.all(options)
    if item_id > 0
      options[:conditions].delete('items_prompts.item_id')
      options[:conditions].merge!('items.id' => item_id)
      options[:joins] = "INNER JOIN items_prompts ON
(items_prompts.prompt_id=prompts.id AND items_prompts.item_id=#{item_id})"
      options[:include] = [:items, {:prompt => :question}]
      @votes_items = Vote.all(options)
    end
  end
end

# GET /votes/add
# ==== Return
# Vote.
# ==== Options (params)
# prompt_id<String>:: Converted to integer. Prompt id of vote. Must belong
# to user.
# skip<String>:: Vote is skip if value '1'.
# item_id<String>:: Item ids of winners. Integer or comma separated list
# integers. Any zero values are removed.
# voter_id<String>:: Converted to integer. Voter id or anonymous 0 voter.
# Must belong to user.
# ==== Raises
# ArgumentError:: If no prompt id, prompt doesn't belong to user, or no
# voter id.
# PermissionError:: If voter does not belong to user.
def add
  prompt_id = params[:prompt_id].to_i
  item_ids = (params[:item_id] &&
params[:item_id].split(',').map(&:to_i).reject(&:zero?)) || []
  skip = (params[:skip] == '1' || item_ids.empty?)
  voter_id = params[:voter_id].to_i
  # can only vote on your questions' prompts, requires voter
  raise ArgumentError unless prompt_id > 0 &&
current_user.prompts.exists?(prompt_id) && voter_id
  # if non-anonymous voter user must own voter
  raise PermissionError if voter_id > 0 && Voter.find(voter_id).user_id !=
current_user.id
  prompt = Prompt.find(prompt_id)
  question_id = prompt.question_id
  all_items = prompt.items
  old_elos = all_items.inject({}) do |hash, item|
    hash[item.id] = item.iq(question_id).position
  end
  hash

```

```

end
@adj = true
attributes = { :prompt_id => prompt_id, :voter_id => voter_id }
attributes[:tracking] = params[:tracking] unless params[:tracking].nil?
attributes[:response_time] = params[:response_time].to_i if
params[:response_time].to_i > 0
@vote = Vote.new(attributes)
raise ArgumentError unless @vote.valid?
if skip == true
  all_items.each do |item|
    iq = item.iq(question_id)
    iq.increment!(:ratings)
    (all_items - [item]).each do |other|
      iq.increment!(:position,
Algorithms::Rank::Elo.adjust_elo(Algorithms::Rank::Elo::DRAW_SCORE, iq.position,
old_elos[other.id]))
    end
  end
else
  items = Item.find(item_ids)
  # vote invalid if any items not in prompt
  raise ArgumentError unless (items - all_items).empty?
  items.each do |item|
    iq = item.iq(question_id)
    iq.update_attributes({ :ratings => iq.ratings + 1, :wins => iq.wins + 1
}))
    (all_items - items).each do |loser|
      iq.increment!(:position,
Algorithms::Rank::Elo.adjust_elo(Algorithms::Rank::Elo::WIN_SCORE,
old_elos[item.id], old_elos[loser.id]))
      loser.iq(question_id).increment!(:position,
Algorithms::Rank::Elo.adjust_elo(Algorithms::Rank::Elo::LOSS_SCORE,
old_elos[loser.id], old_elos[item.id]))
    end
  end
  (all_items - items).each do |item|
    iq = item.iq(question_id)
    iq.update_attributes({ :ratings => iq.ratings + 1, :losses => iq.losses
+ 1 })
  end
end
end
Stat.vote(question_id, all_items)
@vote.save!
@vote.items << items if defined?(items) && items
end
end
module ApplicationHelper
  def cdata(str)
    "<![CDATA[\n #{str.to_s.gsub!("\n", "\n  ") || str}\n]]>"
  end

  def analytics
    render(:partial => 'shared/analytics') if PRODUCTION
  end
end
end

```

```

module HomeHelper
end
module ItemsHelper
  def active?(i)
    i.active ? 1 : 0
  end
end
module PromptAlgorithmsHelper
end
module PromptsHelper
end
module QuestionsHelper
end
module RankAlgorithmsHelper
end
module SessionsHelper
end
module UsersHelper

  #
  # Use this to wrap view elements that the user can't access.
  # !! Note: this is an *interface*, not *security* feature !!
  # You need to do all access control at the controller level.
  #
  # Example:
  # <%= if_authorized?(:index, User) do link_to('List all users', users_path)
end %> |
  # <%= if_authorized?(:edit, @user) do link_to('Edit this user',
edit_user_path) end %> |
  # <%= if_authorized?(:destroy, @user) do link_to 'Destroy', @user, :confirm =>
'Are you sure?', :method => :delete end %>
  #
  #
  def if_authorized?(action, resource, &block)
    if authorized?(action, resource)
      yield action, resource
    end
  end

  #
  # Link to user's page ('users/1')
  #
  # By default, their login is used as link text and link title (tooltip)
  #
  # Takes options
  # * :content_text => 'Content text in place of user.login', escaped with
  #   the standard h() function.
  # * :content_method => :user_instance_method_to_call_for_content_text
  # * :title_method => :user_instance_method_to_call_for_title_attribute
  # * as well as link_to()'s standard options
  #
  # Examples:
  # link_to_user @user
  # # => <a href="/users/3" title="barmy">barmy</a>
  #
  # # if you've added a .name attribute:

```

```

# content_tag :span, :class => :vcard do
#   (link_to_user user, :class => 'fn n', :title_method => :login,
:content_method => :name) +
#     ': ' + (content_tag :span, user.email, :class => 'email')
#   end
#   # => <span class="vcard"><a href="/users/3" title="barmy" class="fn
n">Cyril Fotheringay-Phipps</a>: <span
class="email">barmy@blandings.com</span></span>
#
#   link_to_user @user, :content_text => 'Your user page'
#   # => <a href="/users/3" title="barmy" class="nickname">Your user page</a>
#
def link_to_user(user, options={})
  raise "Invalid user" unless user
  options.reverse_merge! :content_method => :login, :title_method => :login,
:content => :nickname
  content_text = options.delete(:content_text)
  content_text ||= user.send(options.delete(:content_method))
  options[:title] ||= user.send(options.delete(:title_method))
  link_to h(content_text), user_path(user), options
end

#
# Link to login page using remote ip address as link content
#
# The :title (and thus, tooltip) is set to the IP address
#
# Examples:
#   link_to_login_with_IP
#   # => <a href="/login" title="169.69.69.69">169.69.69</a>
#
#   link_to_login_with_IP :content_text => 'not signed in'
#   # => <a href="/login" title="169.69.69.69">not signed in</a>
#
def link_to_login_with_IP(content_text=nil, options={})
  ip_addr = request.remote_ip
  content_text ||= ip_addr
  options.reverse_merge! :title => ip_addr
  if tag = options.delete(:tag)
    content_tag tag, h(content_text), options
  else
    link_to h(content_text), login_path, options
  end
end

#
# Link to the current user's page (using link_to_user) or to the login page
# (using link_to_login_with_IP).
#
def link_to_current_user(options={})
  if current_user
    link_to_user current_user, options
  else
    content_text = options.delete(:content_text) || 'not signed in'
    # kill ignored options from link_to_user

```

```

        [:content_method, :title_method].each{|opt| options.delete(opt)}
        link_to_login_with_IP content_text, options
    end
end
end
module VotersHelper
end
module VotesHelper
end
class Feature < ActiveRecord::Base
    belongs_to :voter

    validates_presence_of :voter_id
    validates_presence_of :name
    validates_presence_of :value
end
class Item < ActiveRecord::Base
    belongs_to :user
    has_many :items_questions, :dependent => :destroy
    has_many :questions, :through => :items_questions
    has_and_belongs_to_many :prompts
    has_and_belongs_to_many :stats
    has_and_belongs_to_many :votes
    has_and_belongs_to_many :prompt_requests

    validates_presence_of :user_id

    before_destroy :destroy_habtmls

    attr_accessor :score

    def iq(question_id)
        items_questions.find_by_question_id(question_id)
    end

    def destroy_habtmls
        Prompt.destroy(prompts)
        prompts.clear
        Stat.destroy(stats)
        stats.clear
        Vote.destroy(votes)
        votes.clear
        PromptRequest.destroy(prompt_requests)
        prompt_requests.clear
    end
end
class ItemsQuestion < ActiveRecord::Base
    belongs_to :item
    belongs_to :question

    validates_presence_of :item_id
    validates_presence_of :question_id
end
class Prompt < ActiveRecord::Base
    belongs_to :question

```

```

belongs_to :prompt_algorithm
belongs_to :voter
has_one :vote, :dependent => :destroy
has_and_belongs_to_many :items

validates_presence_of :question_id
validates_presence_of :prompt_algorithm_id
validates_presence_of :voter_id

class << self
  include Algorithms::Prompt

  # Create prompts based on conditions. If prime is true items used in prompts
  # are relative to their stats values. Otherwise items used are randomly
  # chosen.
  # ==== Return
  # Array of prompt ids.
  # ==== Parameters
  # question_id<int>:: The question id.
  # voter_id<int>:: The voter id.
  # count<int>:: The number of prompts to generate.
  # prime<boolean>:: If true prompts generated using prime algorithm.
  # Otherwise not.
  def fetch(question_id, voter_id, count, prime)
    Item.count(conditions(question_id)) > 1 ? create_prompts(question_id,
voter_id, count, prime) : {}
  end
end
endclass PromptAlgorithm < ActiveRecord::Base
  has_many :prompts

  validates_presence_of :name
  validates_presence_of :data
end
class PromptRequest < ActiveRecord::Base
  belongs_to :question
  belongs_to :voter
  has_and_belongs_to_many :items

  validates_numericality_of :question_id
  validates_numericality_of :voter_id
end
class Question < ActiveRecord::Base
  belongs_to :user
  has_many :items_questions, :dependent => :destroy
  has_many :items, :through => :items_questions
  has_many :prompts, :dependent => :destroy
  has_many :prompt_requests, :dependent => :destroy

  validates_presence_of :user_id
  validates_presence_of :name
end
class RankAlgorithm < ActiveRecord::Base
  validates_presence_of :name

```

```

    validates_presence_of :data
end
class Stat < ActiveRecord::Base
  belongs_to :question
  belongs_to :rank_algorithm
  has_and_belongs_to_many :items

  validates_presence_of :question_id
  validates_presence_of :views
  validates_presence_of :votes
  validates_presence_of :score

  class << self
    include Constants::Stat

    # Update view for or create stat for items
    def view(question_id, items)
      return if items.empty? || !RankAlgorithm.exists?(DEFAULT_RANK_ALGO)
      stat = for_items(items)
      if stat
        views = stat.views + 1
        stat.update_attributes({ :views => views, :score =>
score(stat.rank_algorithm.data.to_i, stat.votes, views) })
      else
        stat = create(default(question_id))
        stat.items << items
      end
      stat
    end

    # Update vote for or create stat for items. Assume items are linked to the
    # passed question id as they should be.
    def vote(question_id, items)
      return if items.empty? || !RankAlgorithm.exists?(DEFAULT_RANK_ALGO)
      stat = for_items(items)
      if stat
        votes = stat.votes + 1
        # if fewer views than votes a view wasn't counted, set to number of
votes
        views = stat.views < votes ? votes : stat.views
        options = { :votes => votes, :score =>
score(stat.rank_algorithm.data.to_i, votes, views) }
        options.merge!(:views => views) if views != stat.views
        stat.update_attributes(options)
      else
        stat = create(default(question_id, 1))
        stat.items << items
      end
      stat
    end

    # Get stats for specific items. Any set of items should have one stat.
    # Merge together multiple stats.
    def for_items(items)

```

```

        sql = "SELECT items_stats.stat_id FROM items_stats WHERE
items_stats.item_id="
        stat_ids = items.map { |item|
find_by_sql("#{sql}#{item.id}").map(&:stat_id) }.closure
        if stat_ids.length > 1
            # merge multiple stats for same item group
            stats = find(stat_ids)
            stat = stats.shift
            stats.each do |el|
                stat.votes += el.votes
                stat.views += el.views
            end
            stat.score = score((stat.rank_algorithm || default_rank_algo).data.to_i,
stat.votes, stat.views)
            stat.save!
            stat
        else
            !stat_ids.empty? && find(stat_ids.first)
        end
    end

private
    # Compute score as |p|^alpha, with p = 2 * votes - views, sign = sign(p).
    def score(alpha, votes, views) #:doc:
        n = 2 * votes - views
        n != 0 ? (n / n.abs) * (n.abs) ** alpha : 0
    end

    def default(question_id, votes = 0)
        rank_algo = default_rank_algo
        { :views => 1,
          :votes => votes,
          :question_id => question_id,
          :score => score(rank_algo.data.to_i, votes, 1),
          :rank_algorithm_id => rank_algo.id
        }
    end

    def default_rank_algo
        RankAlgorithm.find(DEFAULT_RANK_ALGO)
    end

end

class SystemNotifier < ActionMailer::Base
    SYSTEM_EMAIL_ADDRESS = %{"Error Notifier" <error@photocracy.org>}
    EXCEPTION_RECIPIENTS = %w{error@photocracy.org}

    def exception(controller, request, visit, exception, sent_on = Time.now)
        @subject = sprintf("[ERROR] %s\#%s (%s) %s", controller.controller_name,
controller.action_name, exception.class, exception.message.inspect)
        @body = {
            :controller => controller,
            :request => request,
            :exception => exception,
            :backtrace => sanitize_backtrace(exception.backtrace),

```



```

      :host => request.env["HTTP_HOST"], "rails_root" => rails_root,
      :visit => visit
    }
    @sent_on = sent_on
    @from = SYSTEM_EMAIL_ADDRESS
    @recipients = EXCEPTION_RECIPIENTS
    @content_type = "text/html"
  end

  private
  def sanitize_backtrace(trace)
    re = Regexp.new(/^#{Regexp.escape(rails_root)}/)
    trace.map do |line|
      Pathname.new(line.gsub(re, "[RAILS_ROOT]")).cleanpath.to_s
    end
  end

  def rails_root
    @rails_root ||= Pathname.new(RAILS_ROOT).cleanpath.to_s
  end
endrequire 'digest/sha1'

class User < ActiveRecord::Base
  include Authentication
  include Authentication::ByPassword
  include Authentication::ByCookieToken
  include Authorization::AasmRoles

  # associations
  has_many :questions, :dependent => :destroy
  has_many :items, :dependent => :destroy
  has_many :voters, :dependent => :destroy
  has_many :prompts, :through => :questions, :dependent => :destroy

  validates_presence_of :login
  validates_length_of :login, :within => 3..40
  validates_uniqueness_of :login
  validates_format_of :login, :with => Authentication.login_regex,
:message => Authentication.bad_login_message

  validates_format_of :name, :with => Authentication.name_regex,
:message => Authentication.bad_name_message, :allow_nil => true
  validates_length_of :name, :maximum => 100

  validates_presence_of :email
  validates_length_of :email, :within => 6..100 #r@a.wk
  validates_uniqueness_of :email
  validates_format_of :email, :with => Authentication.email_regex,
:message => Authentication.bad_email_message

  # HACK HACK HACK -- how to do attr_accessible from here?
  # prevents a user from submitting a crafted form that bypasses activation
  # anything else you want your user to change should be added here.
  attr_accessible :login, :email, :name, :password, :password_confirmation

```

```

# Authenticates a user by their login name and unencrypted password. Returns
the user or nil.
#
# uff. this is really an authorization, not authentication routine.
# We really need a Dispatch Chain here or something.
# This will also let us return a human error message.
#
def self.authenticate(login, password)
  return nil if login.blank? || password.blank?
  u = find_in_state(:first, :active, :conditions => {:login => login}) ||
find_in_state(:first, :admin, :conditions => {:login => login}) # need to get
the salt
  u && u.authenticated?(password) ? u : nil
end

def login=(value)
  write_attribute :login, (value ? value.downcase : nil)
end

def email=(value)
  write_attribute :email, (value ? value.downcase : nil)
end

# Delete all the user's items and their connections to stats, votes, prompts.
# Delete all stats, items_questions, prompt_requests, and prompts for the
# user's questions.
def destroy_items
  item_ids_str = item_ids.join(',')
  prompt_ids_str = prompt_ids.join(',')
  question_ids_str = question_ids.join(',')
  Vote.delete_all("prompt_id IN (#{prompt_ids_str})") unless
prompt_ids_str.empty?
  unless item_ids_str.empty?
    ActiveRecord::Base.connection.execute("DELETE FROM items_stats WHERE
item_id IN (#{item_ids_str})")
    ActiveRecord::Base.connection.execute("DELETE FROM items_votes WHERE
item_id IN (#{item_ids_str})")
    ActiveRecord::Base.connection.execute("DELETE FROM items_prompts WHERE
item_id IN (#{item_ids_str})")
  end
  Item.delete_all("user_id=#{id}")
  unless question_ids_str.empty?
    Stat.delete_all("question_id IN (#{question_ids_str})")
    ItemsQuestion.delete_all("question_id IN (#{question_ids_str})")
    PromptRequest.delete_all("question_id IN (#{question_ids_str})")
    Prompt.delete_all("question_id IN (#{question_ids_str})")
  end
end

# Delete all data connected to the user.
def destroy_data
  item_ids_str = item_ids.join(',')
  prompt_ids_str = prompt_ids.join(',')
  question_ids_str = question_ids.join(',')
  voter_ids_str = voter_ids.join(',')

```

```

Vote.delete_all("prompt_id IN (#{prompt_ids_str})") unless
prompt_ids_str.empty?
  unless item_ids_str.empty?
    ActiveRecord::Base.connection.execute("DELETE FROM items_stats WHERE
item_id IN (#{item_ids_str})")
    ActiveRecord::Base.connection.execute("DELETE FROM items_votes WHERE
item_id IN (#{item_ids_str})")
    ActiveRecord::Base.connection.execute("DELETE FROM items_prompts WHERE
item_id IN (#{item_ids_str})")
  end
  Item.delete_all("user_id=#{id}")
  unless question_ids_str.empty?
    Stat.delete_all("question_id IN (#{question_ids_str})")
    ItemsQuestion.delete_all("question_id IN (#{question_ids_str})")
    PromptRequest.delete_all("question_id IN (#{question_ids_str})")
    Prompt.delete_all("question_id IN (#{question_ids_str})")
  end
  Question.delete_all("user_id=#{id}")
  Feature.delete_all("voter_id IN (#{voter_ids_str})") unless
voter_ids_str.empty?
  Voter.delete_all("user_id=#{id}")
end

```

```
protected
```

```

  def make_activation_code
    self.deleted_at = nil
    self.activation_code = self.class.make_token
  end
end

```

```
class UserMailer < ActionMailer::Base
```

```

  def signup_notification(user)
    setup_email(user)
    @subject += 'Please activate your new account'
    @body[:url] = "#{Constants::BASE_URL}activate/#{user.activation_code}"
  end

```

```

  def admin_notification(user)
    setup_email(user)
    @recipients = Constants::ADMIN_EMAILS
  end

```

```

  def activation(user)
    setup_email(user)
    @subject += 'Your account has been activated!'
    @body[:url] = Constants::BASE_URL
  end

```

```
protected
```

```

  def setup_email(user)
    @recipients = "#{user.email}"
    @from = "pairwise@photocracy.org"
    @subject = "[pairwise] "
    @content_type = "text/html"
    @sent_on = Time.now
    @body[:user] = user
  end

```

```

    end
end
class Vote < ActiveRecord::Base
  belongs_to :prompt
  belongs_to :voter
  has_and_belongs_to_many :items

  validates_presence_of :prompt_id
  validates_uniqueness_of :prompt_id
  validates_presence_of :voter_id
end
class Voter < ActiveRecord::Base
  has_many :features, :dependent => :destroy
  belongs_to :user
  belongs_to :prompt

  validates_presence_of :user_id
end
# Don't change this file!
# Configure your app in config/environment.rb and config/environments/*.rb

RAILS_ROOT = "#{File.dirname(__FILE__)}/.." unless defined?(RAILS_ROOT)

module Rails
  class << self
    def boot!
      unless booted?
        preinitialize
        pick_boot.run
      end
    end

    def booted?
      defined? Rails::Initializer
    end

    def pick_boot
      (vendor_rails? ? VendorBoot : GemBoot).new
    end

    def vendor_rails?
      File.exist?("#{RAILS_ROOT}/vendor/rails")
    end

    def preinitialize
      load(preinitializer_path) if File.exist?(preinitializer_path)
    end

    def preinitializer_path
      "#{RAILS_ROOT}/config/preinitializer.rb"
    end
  end
end

class Boot
  def run

```

```

    load_initializer
    Rails::Initializer.run(:set_load_path)
  end
end

class VendorBoot < Boot
  def load_initializer
    require "#{RAILS_ROOT}/vendor/rails/railties/lib/initializer"
    Rails::Initializer.run(:install_gem_spec_stubs)
  end
end

class GemBoot < Boot
  def load_initializer
    self.class.load_rubygems
    load_rails_gem
    require 'initializer'
  end

  def load_rails_gem
    if version = self.class.gem_version
      gem 'rails', version
    else
      gem 'rails'
    end
    rescue Gem::LoadError => load_error
      $stderr.puts %(Missing the Rails #{version} gem. Please `gem install -
v=#{version} rails`, update your RAILS_GEM_VERSION setting in
config/environment.rb for the Rails version you do have installed, or comment
out RAILS_GEM_VERSION to use the latest version installed.)
      exit 1
    end

    class << self
      def rubygems_version
        Gem::RubyGemsVersion if defined? Gem::RubyGemsVersion
      end

      def gem_version
        if defined? RAILS_GEM_VERSION
          RAILS_GEM_VERSION
        elsif ENV.include?('RAILS_GEM_VERSION')
          ENV['RAILS_GEM_VERSION']
        else
          parse_gem_version(read_environment_rb)
        end
      end

      def load_rubygems
        require 'rubygems'
        min_version = '1.1.1'
        unless rubygems_version >= min_version
          $stderr.puts %Q(Rails requires RubyGems >= #{min_version} (you have
#{rubygems_version}). Please `gem update --system` and try again.)
          exit 1
        end
      end
    end
  end
end

```

```

    end

    rescue LoadError
      $stderr.puts %Q(Rails requires RubyGems >= #{min_version}. Please
install RubyGems and try again: http://rubygems.rubyforge.org)
      exit 1
    end

    def parse_gem_version(text)
      $! if text =~
/^[^#]*RAILS_GEM_VERSION\s*=\s*["']([!~<>=]*\s*[\d.]+)["']/
    end

    private
    def read_environment_rb
      File.read("#{RAILS_ROOT}/config/environment.rb")
    end
  end
end
end

# All that for this:
Rails.boot!
set :keep_releases, 5
set :application, "pairwise"
set :ip, "173.45.234.238"
set :repository, "svn+pssh://#{ip}/home/svn/repos/pairwise/"
set :user, 'photocracy'
set :password, 'c3rd0FASC1STA'
set :scm_username, 'svn'
set :scm_password, 'f3y3rab3nd'
set :scm, :subversion
set :monit_group, 'pair'
set :deploy_to, "/var/www/#{application}/"
set :deploy_via, :copy

ssh_options[:port] = 11235
ssh_options[:paranoid] = false
default_run_options[:pty] = true

task :stage do
  set :deploy_to, "#{deploy_to.chop}_stage/"
  set :monit_group, "#{monit_group}_s"
  set :repository, "#{repository}trunk"
end

task :prod do
  set :tag, "0.2.4.0"
  set :repository, "#{repository}tags/#{tag}"
end

role :web, ip
role :app, ip
role :db, ip, :primary => true

```

```

# =====
# TASKS
after "deploy", "deploy:cleanup"
after "deploy:update_code", "deploy:symlink_configs"

# =====
namespace :deploy do
  task :symlink_configs, :roles => :app, :except => {:no_symlink => true} do
    run <<-CMD
      cd #{release_path} &&
      ln -nfs #{shared_path}/log #{release_path}/config/log &&
      ln -nfs #{shared_path}/config/mongrel.yml
#{release_path}/config/mongrel.yml &&
      ln -nfs #{shared_path}/config/database.yml
#{release_path}/config/database.yml
    CMD
  end

  desc "Restart the Monit processes on the app server by calling monit."
  task :restart, :roles => :app do
    monit.restart
  end
end

namespace :monit do
  desc <<-DESC
    Start Monit processes on the app server. This uses the :use_sudo variable to
determine whether to use sudo or
not. By default, :use_sudo is set to true.
  DESC
  task :start, :roles => :app do
    sudo "/usr/sbin/monit start all -g #{monit_group}"
  end

  desc <<-DESC
    Restart the Monit processes on the app server by starting and stopping the
cluster. This uses the :use_sudo
variable to determine whether to use sudo or not. By default, :use_sudo is set
to true.
  DESC
  task :restart, :roles => :app do
    sudo "/usr/sbin/monit restart all -g #{monit_group}"
  end

  desc <<-DESC
    Stop the Monit processes on the app server. This uses the :use_sudo
variable to determine whether to use sudo or not. By default, :use_sudo is
set to true.
  DESC
  task :stop, :roles => :app do
    sudo "/usr/sbin/monit stop all -g #{monit_group}"
  end
end
RAILS_GEM_VERSION = '2.3.2' unless defined? RAILS_GEM_VERSION

PRODUCTION = false

```

```

LOG_DETAIL = !PRODUCTION

# Bootstrap the Rails environment, frameworks, and default configuration
require File.join(File.dirname(__FILE__), 'boot')
require 'hodel_3000_compliant_logger' if LOG_DETAIL

Rails::Initializer.run do |config|
  config.gem 'rubyist-aasm', :lib => 'aasm'
  config.gem 'libxml-ruby', :lib => 'libxml'

  # Use the Hodel3000 compliant logger
  config.logger = Hodel3000CompliantLogger.new(config.log_path) if LOG_DETAIL

  # Use default local time.
  # config.time_zone = 'UTC'

  # Your secret key for verifying cookie session data integrity.
  # If you change this key, all old sessions will become invalid!
  # Make sure the secret is at least 30 characters and all random,
  # no regular words or you'll be exposed to dictionary attacks.
  config.action_controller.session = {
    :key => '_pairwise_session',
    :secret =>
'c6dccd828c3249f9cbc83e0682f2986442594a794bce2ae18461ea443acfb52411c3d9117e7899f7503195a5334db8d4898c9c9eac2420db1a4ce37f1f1b9c97'
  }
  config.action_controller.session_store = :active_record_store
  config.action_mailer.delivery_method = :smtp
end# Settings specified here will take precedence over those in
config/environment.rb

# In the development environment your application's code is reloaded on
# every request. This slows down response time but is perfect for development
# since you don't have to restart the webserver when you make code changes.
config.cache_classes = false

# Log error messages when you accidentally call methods on nil.
config.whiny_nils = true

# Show full error reports and disable caching
config.action_controller.consider_all_requests_local = true
config.action_view.debug_rjs = true
config.action_controller.perform_caching = false

# Don't care if the mailer can't send
config.action_mailer.raise_delivery_errors = false# Settings specified here will
take precedence over those in config/environment.rb

# The production environment is meant for finished, "live" apps.
# Code is not reloaded between requests
config.cache_classes = true

# Use a different logger for distributed setups
# config.logger = SyslogLogger.new

```



```

# Full error reports are disabled and caching is turned on
config.action_controller.consider_all_requests_local = false
config.action_controller.perform_caching            = true
config.cache_classes                                = true

# Use a different cache store in production
# config.cache_store = :mem_cache_store

# Enable serving of images, stylesheets, and javascripts from an asset server
# config.action_controller.asset_host                =
"http://assets.example.com"

# Disable delivery errors, bad email addresses will be ignored
# config.action_mailer.raise_delivery_errors = false
# Settings specified here will take precedence over those in
config/environment.rb

# The test environment is used exclusively to run your application's
# test suite.  You never need to work with it otherwise.  Remember that
# your test database is "scratch space" for the test suite and is wiped
# and recreated between test runs.  Don't rely on the data there!
config.cache_classes = true

# Log error messages when you accidentally call methods on nil.
config.whiny_nils = true

# Show full error reports and disable caching
config.action_controller.consider_all_requests_local = true
config.action_controller.perform_caching              = false

# Disable request forgery protection in test environment
config.action_controller.allow_forgery_protection     = false

# Tell Action Mailer not to deliver emails to the real world.
# The :test delivery method accumulates sent emails in the
# ActionMailer::Base.deliveries array.
config.action_mailer.delivery_method = :test
class ActionController::Request
  # patched version to not raise on xml parameter parse errors
  def parse_formatted_request_parameters
    return {} if content_length.zero?

    content_type, boundary =
self.class.extract_multipart_boundary(content_type_with_parameters)

    # Don't parse params for unknown requests.
    return {} if content_type.blank?

    mime_type = Mime::Type.lookup(content_type)
    strategy = ActionController::Base.param_parsers[mime_type]

    # Only multipart form parsing expects a stream.
    body = (strategy && strategy != :multipart_form) ? raw_post : self.body

    case strategy

```

```

when Proc
  strategy.call(body)
when :url_encoded_form
  self.class.clean_up_ajax_request_body! body
  self.class.parse_query_parameters(body)
when :multipart_form
  self.class.parse_multipart_form_parameters(body, boundary,
content_length, env)
when :xml_simple, :xml_node
  @no_raise = true
  body.blank? ? {} : Hash.from_xml(body).with_indifferent_access
when :yaml
  YAML.load(body)
when :json
  if body.blank?
    {}
  else
    data = ActiveSupport::JSON.decode(body)
    data = {:_json => data} unless data.is_a?(Hash)
    data.with_indifferent_access
  end
else
  {}
end
rescue Exception => e # YAML, XML or Ruby code block errors
  if @no_raise
    {}
  else
    raise
    { "body" => body,
      "content_type" => content_type_with_parameters,
      "content_length" => content_length,
      "exception" => "#{e.message} (#{e.class})",
      "backtrace" => e.backtrace }
  end
end
endclass PermissionError < Exception
end# Be sure to restart your server when you modify this file.

# Add new inflection rules using the following format
# (all these examples are active by default):
# ActiveSupport::Inflector.inflections do |inflect|
#   inflect.plural /^(ox)$/i, '\len'
#   inflect.singular /^(ox)en/i, '\l'
#   inflect.irregular 'person', 'people'
#   inflect.uncountable %w( fish sheep )
# end
# Be sure to restart your server when you modify this file.

# Add new mime types for use in respond_to blocks:
# Mime::Type.register "text/richtext", :rtf
# Mime::Type.register_alias "text/html", :iphone
# These settings change the behavior of Rails 2 apps and will be defaults
# for Rails 3. You can remove this initializer when Rails 3 is released.

```

```

if defined?(ActiveRecord)
  # Include Active Record class name as root for JSON serialized output.
  ActiveRecord::Base.include_root_in_json = true

  # Store the full class name (including module namespace) in STI type column.
  ActiveRecord::Base.store_full_sti_class = true
end

# Use ISO 8601 format for JSON serialized times and dates.
ActiveSupport.use_standard_json_time_format = true

# Don't escape HTML entities in JSON, leave that for the #json_escape helper.
# if you're including raw json in an HTML page.
ActiveSupport.escape_html_entities_in_json = false
class Array
  # evaluate on outside of loop
  def sumup(on = nil)
    on ? self.inject(0) { |sum, el| sum += el.send(on).to_f } : self.inject(0) {
|sum, el| sum += el.to_f }
  end

  def closure
    self.inject(self.first) { |closure, el| closure &= el; closure }
  end
end
# A Site key gives additional protection against a dictionary attack if your
# DB is ever compromised. With no site key, we store
# DB_password = hash(user_password, DB_user_salt)
# If your database were to be compromised you'd be vulnerable to a dictionary
# attack on all your stupid users' passwords. With a site key, we store
# DB_password = hash(user_password, DB_user_salt, Code_site_key)
# That means an attacker needs access to both your site's code *and* its
# database to mount an "offline dictionary
attack." :http://www.dwheeler.com/secure-programs/Secure-Programs-HOWTO/web-
authentication.html
#
# It's probably of minor importance, but recommended by best practices: 'defense
# in depth'. Needless to say, if you upload this to github or the youtubes or
# otherwise place it in public view you'll kinda defeat the point. Your users'
# passwords are still secure, and the world won't end, but defense_in_depth -=
1.
#
# Please note: if you change this, all the passwords will be invalidated, so DO
# keep it someplace secure. Use the random value given or type in the lyrics to
# your favorite Jay-Z song or something; any moderately long, unpredictable
text.
REST_AUTH_SITE_KEY = 'd8de37c85f588d8414e1402513af8101b1dfd2d8'

# Repeated applications of the hash make brute force (even with a compromised
# database and site key) harder, and scale with Moore's law.
#
# bq. "To squeeze the most security out of a limited-entropy password or
# passphrase, we can use two techniques [salting and stretching]... that are
# so simple and obvious that they should be used in every password system.
# There is really no excuse not to use them." http://tinyurl.com/371b73
# Practical Security (Ferguson & Scheier) p350
#

```

```
# A modest 10 foldings (the default here) adds 3ms. This makes brute forcing 10
# times harder, while reducing an app that otherwise serves 100 reqs/s to 78
# sign/s
# reqs/s, an app that does 10reqs/s to 9.7 reqs/s
#
# More:
# * http://www.owasp.org/index.php/Hashing\_Java
# * "An Illustrated Guide to Cryptographic
# Hashes":http://www.unixwiz.net/techtips/iguide-crypto-hashes.html
```

```
REST_AUTH_DIGEST_STRETCHES = 10
require "smtp_tls"
```

```
mailer_config = File.open("#{RAILS_ROOT}/config/mailer.yml")
mailer_options = YAML.load(mailer_config)
ActionMailer::Base.smtp_settings = mailer_options
require 'libxml'
```

```
class LibXML::XML::Parser
  class << self
    def parse(string)
      string(string).parse
    end
  end
end

endActionController::Routing::Routes.draw do |map|
  map.logout '/logout', :controller => 'sessions', :action => 'destroy'
  map.login '/login', :controller => 'sessions', :action => 'new'
  map.register '/register', :controller => 'users', :action => 'create'
  map.signup '/signup', :controller => 'users', :action => 'new'
  map.activate '/activate/:id', :controller => 'users', :action => 'activate',
:activation_code => nil
  map.learn '/learn', :controller => 'home', :action => 'learn'
  map.api '/api', :controller => 'home', :action => 'api'
  map.about '/about', :controller => 'home', :action => 'about'
  map.resources :users, :member => { :suspend => :get,
                                     :unsuspend => :get,
                                     :purge => :delete }

  map.resource :session
  map.resources(:items,
    :member => { :activate => [:post, :get], :suspend => [:post, :get], :delete
=> :post },
    :collection => {
      :add => :post,
      :list => :get
    })
  map.connect('items/list/:question_id/:rank_algorithm/:limit/:offset/:order/',
    :controller => 'items',
    :action => 'list',
    :defaults => { :question_id => 0, :rank_algorithm => 0, :limit => 0, :offset
=> 0, :order => 0 })
  map.resources :prompts, :collection => { :list => :get }, :member => { :view
=> :get }
  map.connect('prompts/list/:question_id/:item_id', :controller => 'prompts',
:action => 'list',
    :defaults => { :question_id => 0, :item_id => 'A' })
```

```

    map.connect('prompts/create/:question_id/:voter_id/:n/:prime', :controller =>
'prompts', :action => 'create',
    :conditions => { :method => [:post, :get] }, :defaults => { :n => 1, :prime
=> 0, :voter_id => 0 })
    map.resources :questions, :member => { :delete => :post }, :collection => {
:list => :get, :add => :post }
    map.resources(:votes, :collection => { :list => :get, :add => [:post, :get] },
    :conditions => { :method => [:post, :get] })
    map.connect('votes/list/:question_id/:item_id', :controller => 'votes',
:action => 'list',
    :defaults => { :question_id => 0, :item_id => 0 })
    map.connect('votes/add/:prompt_id/:voter_id/:response_time/:item_id/',
:controller => 'votes', :action => 'add',
    :conditions => { :method => [:post, :get] }, :defaults => { :response_time
=> 0, :item_id => 0, :voter_id => 0 })
    map.resources :voters, :collection => { :list => :get, :add => :post }
    map.resources :rank_algorithms, :collection => { :build_stats => :get, :list
=> :get }
    map.resources :prompt_algorithms, :collection => { :list => :get }

    map.root :controller => 'home'
    map.connect ':controller/:action/:id'
    map.connect ':controller/:action/:id.:format'
end
class CreateQuestions < ActiveRecord::Migration
  def self.up
    create_table :questions do |t|
      t.integer :user_id, :null => false
      t.string :name, :null => false
      t.timestamps
    end

    add_index :questions, :user_id
  end

  def self.down
    drop_table :questions
  end
end
class CreateItems < ActiveRecord::Migration
  def self.up
    create_table :items do |t|
      t.integer :user_id, :null => false
      t.text :data
      t.boolean :active, :default => false
      t.timestamps
    end

    add_index :items, :user_id
  end

  def self.down
    drop_table :items
  end
end
endclass CreatePrompts < ActiveRecord::Migration

```

```

def self.up
  create_table :prompts do |t|
    t.integer :question_id, :null => false
    t.integer :prompt_algorithm_id, :null => false
    t.integer :voter_id, :null => false
    t.boolean :active, :default => true
    t.timestamps
  end

  create_table :items_prompts, :id => false do |t|
    t.integer :item_id, :null => false
    t.integer :prompt_id, :null => false
  end

  add_index :prompts, :question_id
  add_index :prompts, :voter_id

  add_index :items_prompts, :item_id
  add_index :items_prompts, :prompt_id
end

def self.down
  drop_table :prompts
  drop_table :items_prompts
end
endclass CreateVotes < ActiveRecord::Migration
def self.up
  create_table :votes do |t|
    t.integer :prompt_id, :null => false
    t.integer :voter_id, :null => false
    t.integer :response_time
    t.timestamps
  end

  create_table :items_votes, :id => false do |t|
    t.integer :item_id, :null => false
    t.integer :vote_id, :null => false
  end

  add_index :votes, :prompt_id
  add_index :votes, :voter_id

  add_index :items_votes, :item_id
  add_index :items_votes, :vote_id
end

def self.down
  drop_table :votes
  drop_table :items_votes
end
endclass CreatePromptAlgorithms < ActiveRecord::Migration
def self.up
  create_table :prompt_algorithms do |t|
    t.string :name, :null => false
    t.string :data, :null => false
  end

```

```

        t.timestamps
    end
end

def self.down
    drop_table :prompt_algorithms
end
endclass CreateRankAlgorithms < ActiveRecord::Migration
def self.up
    create_table :rank_algorithms do |t|
        t.string :name, :null => false
        t.string :data, :null => false
        t.timestamps
    end
end

def self.down
    drop_table :rank_algorithms
end
endclass CreateSessions < ActiveRecord::Migration
def self.up
    create_table :sessions do |t|
        t.string :session_id, :null => false
        t.text :data
        t.timestamps
    end

    add_index :sessions, :session_id
    add_index :sessions, :updated_at
end

def self.down
    drop_table :sessions
end
end
class CreateUsers < ActiveRecord::Migration
def self.up
    create_table "users", :force => true do |t|
        t.column :login, :string, :limit => 40
        t.column :name, :string, :limit => 100, :default =>
'', :null => true
        t.column :email, :string, :limit => 100
        t.column :crypted_password, :string, :limit => 40
        t.column :salt, :string, :limit => 40
        t.column :created_at, :datetime
        t.column :updated_at, :datetime
        t.column :remember_token, :string, :limit => 40
        t.column :remember_token_expires_at, :datetime
        t.column :activation_code, :string, :limit => 40
        t.column :activated_at, :datetime
        t.column :state, :string, :null => :no, :default =>
'passive'
        t.column :deleted_at, :datetime
    end
end

```

```

    add_index :users, :login, :unique => true
  end

  def self.down
    drop_table "users"
  end
end

class CreateVoters < ActiveRecord::Migration
  def self.up
    create_table :voters do |t|
      t.integer :user_id, :null => false
      t.timestamps
    end

    add_index :voters, :user_id
  end

  def self.down
    drop_table :voters
  end
end

class CreateFeatures < ActiveRecord::Migration
  def self.up
    create_table :features do |t|
      t.integer :voter_id, :null => false
      t.string :name, :null => false
      t.integer :value, :null => false

      t.timestamps
    end

    add_index :features, :voter_id
    add_index :features, :name
  end

  def self.down
    drop_table :features
  end
end

class CreatePromptRequests < ActiveRecord::Migration
  def self.up
    create_table :prompt_requests do |t|
      t.integer :question_id, :null => false
      t.integer :voter_id, :null => false
      t.integer :count, :default => 1
      t.text :item_ids
      t.timestamps
    end

    add_index :prompt_requests, :question_id
    add_index :prompt_requests, :voter_id
  end

  def self.down
    drop_table :prompt_requests
  end
end

```



```

end
end
class CreateItemsQuestions < ActiveRecord::Migration
  def self.up
    create_table :items_questions do |t|
      t.integer :item_id, :null => false
      t.integer :question_id, :null => false
      t.integer :position, :default => 1400, :null => false
      t.integer :wins, :default => 0, :null => false
      t.integer :ratings, :default => 0, :null => false
      t.timestamps
    end

    add_index :items_questions, :item_id
    add_index :items_questions, :question_id
  end

  def self.down
    drop_table :items_questions
  end
end
class CreateStats < ActiveRecord::Migration
  def self.up
    create_table :stats do |t|
      t.integer :question_id, :null => false
      t.integer :rank_algorithm_id
      t.integer :views, :null => false, :default => 0
      t.integer :votes, :null => false, :default => 0
      t.float :score, :null => false, :default => 0
      t.timestamps
    end

    create_table :items_stats, :id => false do |t|
      t.integer :item_id, :null => :false
      t.integer :stat_id, :null => :false
    end

    add_index :stats, :question_id
    add_index :items_stats, :item_id
    add_index :items_stats, :stat_id
  end

  def self.down
    drop_table :stats
    drop_table :items_stats
  end
end
class AddItemsPromptRequests < ActiveRecord::Migration
  def self.up
    remove_column :prompt_requests, :item_ids

    create_table :items_prompt_requests, :id => false do |t|
      t.integer :item_id, :null => false
      t.integer :prompt_request_id, :null => false
    end
  end
end

```

```

    add_index :items_prompt_requests, :item_id
    add_index :items_prompt_requests, :prompt_request_id
  end

  def self.down
    add_column :prompt_requests, :item_ids, :text

    drop_table :items_prompt_requests
  end
end

class AddTrackingToVotes < ActiveRecord::Migration
  def self.up
    add_column :votes, :tracking, :text
  end

  def self.down
    remove_column :votes, :tracking
  end
end

class AddActiveIndexes < ActiveRecord::Migration
  def self.up
    add_index :items, :active
  end

  def self.down
    remove_index :items, :active
  end
end

class AddItemsQuestionsLosses < ActiveRecord::Migration
  def self.up
    add_column :items_questions, :losses, :integer, :default => 0
  end

  def self.down
    remove_column :items_questions, :losses
  end
end

class AddTrackingToItems < ActiveRecord::Migration
  def self.up
    add_column :items, :tracking, :text
  end

  def self.down
    remove_column :items, :tracking
  end
end

# This file is auto-generated from the current state of the database. Instead of
# editing this file,
# please use the migrations feature of Active Record to incrementally modify
# your database, and
# then regenerate this schema definition.
#
# Note that this schema.rb definition is the authoritative source for your
# database schema. If you need

```

```
# to create the application database on another system, you should be using
db:schema:load, not running
# all the migrations from scratch. The latter is a flawed and unsustainable
approach (the more migrations
# you'll amass, the slower it'll run and the greater likelihood for issues).
#
# It's strongly recommended to check this file into your version control system.
```

```
ActiveRecord::Schema.define(:version => 20090527113348) do
```

```
  create_table "features", :force => true do |t|
    t.integer   "voter_id",      :null => false
    t.string    "name",          :null => false
    t.integer   "value",         :null => false
    t.datetime  "created_at"
    t.datetime  "updated_at"
  end
```

```
  add_index "features", ["name"], :name => "index_features_on_name"
  add_index "features", ["voter_id"], :name => "index_features_on_voter_id"
```

```
  create_table "items", :force => true do |t|
    t.integer   "user_id",              :null => false
    t.boolean   "active",               :default => false
    t.datetime  "created_at"
    t.datetime  "updated_at"
    t.text      "data"
    t.text      "tracking"
  end
```

```
  add_index "items", ["active"], :name => "index_items_on_active"
  add_index "items", ["user_id"], :name => "index_items_on_user_id"
```

```
  create_table "items_prompt_requests", :id => false, :force => true do |t|
    t.integer "item_id", :null => false
    t.integer "prompt_request_id", :null => false
  end
```

```
  add_index "items_prompt_requests", ["item_id"], :name =>
"index_items_prompt_requests_on_item_id"
  add_index "items_prompt_requests", ["prompt_request_id"], :name =>
"index_items_prompt_requests_on_prompt_request_id"
```

```
  create_table "items_prompts", :id => false, :force => true do |t|
    t.integer "item_id", :null => false
    t.integer "prompt_id", :null => false
  end
```

```
  add_index "items_prompts", ["item_id"], :name =>
"index_items_prompts_on_item_id"
  add_index "items_prompts", ["prompt_id"], :name =>
"index_items_prompts_on_prompt_id"
```

```
  create_table "items_questions", :force => true do |t|
    t.integer "item_id", :null => false
```

```

    t.integer "question_id",          :null => false
    t.integer "wins",                 :default => 0,    :null => false
    t.integer "ratings",               :default => 0,    :null => false
    t.integer "position",              :default => 1400, :null => false
    t.datetime "created_at"
    t.datetime "updated_at"
    t.integer "losses",               :default => 0
  end

  add_index "items_questions", ["item_id"], :name =>
    "index_items_questions_on_item_id"
  add_index "items_questions", ["question_id"], :name =>
    "index_items_questions_on_question_id"

  create_table "items_stats", :id => false, :force => true do |t|
    t.integer "item_id"
    t.integer "stat_id"
  end

  add_index "items_stats", ["item_id"], :name => "index_items_stats_on_item_id"
  add_index "items_stats", ["stat_id"], :name => "index_items_stats_on_stat_id"

  create_table "items_votes", :id => false, :force => true do |t|
    t.integer "item_id", :null => false
    t.integer "vote_id", :null => false
  end

  add_index "items_votes", ["item_id"], :name => "index_items_votes_on_item_id"
  add_index "items_votes", ["vote_id"], :name => "index_items_votes_on_vote_id"

  create_table "prompt_algorithms", :force => true do |t|
    t.string "name", :null => false
    t.string "data", :null => false
    t.datetime "created_at"
    t.datetime "updated_at"
  end

  create_table "prompt_requests", :force => true do |t|
    t.integer "question_id",          :null => false
    t.integer "voter_id",             :null => false
    t.integer "count",                :default => 1
    t.datetime "created_at"
    t.datetime "updated_at"
  end

  add_index "prompt_requests", ["question_id"], :name =>
    "index_prompt_requests_on_question_id"
  add_index "prompt_requests", ["voter_id"], :name =>
    "index_prompt_requests_on_voter_id"

  create_table "prompts", :force => true do |t|
    t.integer "question_id",          :null => false
    t.integer "prompt_algorithm_id",  :null => false
    t.integer "voter_id",             :null => false
    t.boolean "active",               :default => true
  end

```

```

    t.datetime "created_at"
    t.datetime "updated_at"
end

add_index "prompts", ["question_id"], :name => "index_prompts_on_question_id"
add_index "prompts", ["voter_id"], :name => "index_prompts_on_voter_id"

create_table "questions", :force => true do |t|
  t.integer "user_id", :null => false
  t.string "name", :null => false
  t.datetime "created_at"
  t.datetime "updated_at"
end

add_index "questions", ["user_id"], :name => "index_questions_on_user_id"

create_table "rank_algorithms", :force => true do |t|
  t.string "name", :null => false
  t.string "data", :null => false
  t.datetime "created_at"
  t.datetime "updated_at"
end

create_table "sessions", :force => true do |t|
  t.string "session_id", :null => false
  t.text "data"
  t.datetime "created_at"
  t.datetime "updated_at"
end

add_index "sessions", ["session_id"], :name => "index_sessions_on_session_id"
add_index "sessions", ["updated_at"], :name => "index_sessions_on_updated_at"

create_table "stats", :force => true do |t|
  t.integer "question_id", :null => false
  t.integer "rank_algorithm_id"
  t.integer "views", :default => 0, :null => false
  t.integer "votes", :default => 0, :null => false
  t.float "score", :default => 0.0, :null => false
  t.datetime "created_at"
  t.datetime "updated_at"
end

add_index "stats", ["question_id"], :name => "index_stats_on_question_id"

create_table "users", :force => true do |t|
  t.string "login", :limit => 40
  t.string "name", :limit => 100, :default => ""
  t.string "email", :limit => 100
  t.string "encrypted_password", :limit => 40
  t.string "salt", :limit => 40
  t.datetime "created_at"
  t.datetime "updated_at"
  t.string "remember_token", :limit => 40
  t.datetime "remember_token_expires_at"
end

```

```

    t.string    "activation_code",          :limit => 40
    t.datetime  "activated_at"
    t.string    "state",                    :default => "passive"
    t.datetime  "deleted_at"
end

add_index "users", ["login"], :name => "index_users_on_login", :unique => true

create_table "voters", :force => true do |t|
  t.integer   "user_id",      :null => false
  t.datetime  "created_at"
  t.datetime  "updated_at"
end

add_index "voters", ["user_id"], :name => "index_voters_on_user_id"

create_table "votes", :force => true do |t|
  t.integer   "prompt_id",      :null => false
  t.integer   "voter_id",       :null => false
  t.integer   "response_time"
  t.datetime  "created_at"
  t.datetime  "updated_at"
  t.text      "tracking"
end

add_index "votes", ["prompt_id"], :name => "index_votes_on_prompt_id"
add_index "votes", ["voter_id"], :name => "index_votes_on_voter_id"

end
module Algorithms::Prompt::Popular
  class << self
    include Algorithms::Prompt

    # algorithm ID
    ID = 3

    # Generate count number of primed prompts based on question ID, voter ID
    # and stats.
    # ==== Return
    # Hash with prompt IDs as keys and item IDs for that prompt as values.
    # ==== Parameters
    # question_id<int>:: Generate prompts for this question ID
    # voter_id<int>:: Generate prompts for this voter ID
    # count<int>:: Generate this number of prompts
    # result<Mysql::Result>:: Stats values.
    def prompts(question_id, voter_id, count, result)
      # make all stats positive by adding |min(stats)| + 1 to all stats
      prompt_item_ids = {}
      norm = cur = 0
      stats = []
      stat = result.fetch_hash
      min = stat['score'].to_f.abs + 1
      while !stat.nil?
        norm += (adj = stat['score'].to_f + min)
        stats << [stat['id'].to_i, [cur, cur += adj]]
      end
    end
  end
end

```

```

    stat = result.fetch_hash
  end
  result.free
  Prompt.transaction do
    count.times do |i|
      prompt = prompt_for_request(question_id, voter_id, ID)
      # choose the stat [0] <= r < [1]
      r = rand(norm)
      # detect treats hash as [key, value] array
      stat_id = stats.detect { |stat| stat[1][0] <= r && r < stat[1][1] }[0]
      item_ids = Stat.find(stat_id).item_ids
      prompt.item_ids = item_ids
      redo if bad_prompt?(prompt)
      prompt_item_ids[prompt.id] = item_ids
    end
  end
  prompt_item_ids
end
end
end

module Algorithms::Prompt::Random
  class << self
    include Algorithms::Prompt

    # algorithm ID
    ID = 2

    # Generate count number of random prompts based on question ID and voter ID.
    # ==== Return
    # An array of prompts
    # ==== Parameters
    # question_id<int>:: Generate prompts for this question ID
    # voter_id<int>:: Generate prompts for this voter ID
    # count<int>:: Generate this number of prompts
    def prompts(question_id, voter_id, count)
      all_items = items_for_request(question_id)
      items = []
      prompt_item_ids = {}
      # leaks with create/find in req loop
      Prompt.transaction do
        count.times do |i|
          items = all_items.dup if items.length < 2 # ensure we still have items
          prompt = prompt_for_request(question_id, voter_id, ID)
          item = items.delete_at(rand(items.length))
          prompt.items << item << items.delete_at(rand(items.length))
          redo if bad_prompt?(prompt)
          prompt_item_ids[prompt.id] = prompt.item_ids
        end
      end
      prompt_item_ids
    end
  end
end
endmodule Algorithms::Prompt
ID = 1

```

```

# Generate count number of prompts based on question and voter. Choose
# generation algorithm based on prime.
# ==== Return
# An array of prompts
# ==== Parameters
# question_id<int>:: Prompts for this question ID.
# voter_id<int>:: Prompts for this voter ID.
# count<int>:: This number of prompts.
# prompt<bool>:: If true primed prompts are generated, otherwise random
# prompts are generated.
def create_prompts(question_id, voter_id, count, prime)
  srand if PRODUCTION
  result = ActiveRecord::Base.connection.execute(
    "SELECT id,score FROM stats WHERE question_id=#{question_id} ORDER BY
score;"
  ) if prime
  if prime && result.num_rows > 0
    Algorithms::Prompt::Popular.prompts(question_id, voter_id, count, result)
  else
    Algorithms::Prompt::Random.prompts(question_id, voter_id, count)
  end
end

# Create default prompt
def prompt_for_request(question_id, voter_id, algorithm_id)
  Prompt.create(
    :question_id => question_id,
    :voter_id => voter_id,
    :prompt_algorithm_id => algorithm_id,
    :active => false
  )
end

# Test if prompt is bad. Prompt is bad if it does not have 2 items or if
# any of its items are nil.
def bad_prompt?(prompt)
  return (prompt.items.length != 2 || prompt.items.any?(&:nil?))
end

def conditions(question_id)
  {
    :joins => "INNER JOIN items_questions ON
(items_questions.question_id=#{question_id} AND
items_questions.item_id=items.id)",
    :conditions => { :active => true },
  }
end

private
def items_for_request(question_id)
  Item.all(conditions(question_id).merge(:group => "items.id"))
end
endmodule Algorithms::Rank::Elo
START_RATING = 1400
K_VALUE = 32

```



```

DRAW_SCORE = 0.5
LOSS_SCORE = 0
WIN_SCORE = 1

class << self

  # Calculate Elo score for all items given a user and question.
  # ==== Return
  # Array of item IDs, followed by an array of Elo scores matching to the
  # item with the same array index.
  # ==== Parameters
  # user_id<int>:: Get Elo scores for user with this ID.
  # order<string>:: If 'asc' return Elo scores in ascending order, otherwise
  # return Elo scores in descending order.
  # question_id<int>:: Get Elo scores for items in this question.
  # limit<int>:: Truncate scores returned to this number of items.
  # adj<bool>:: Use an adjusted Elo algorithm. Default true.
  def score(user_id, order, question_id, limit, adj=true)
    joins = "INNER JOIN users ON items.user_id=#{user_id}"
    joins += " INNER JOIN items_questions ON
(items_questions.question_id=#{question_id} AND
items_questions.item_id=items.id)" if question_id.to_i > 0
    conditions = {
      :joins => joins,
      :group => 'items.id'
    }
    items = Item.find(:all, conditions)

    conditions = {
      :conditions => { :active => false },
      :order => 'prompts.created_at',
      :include => [:items, :votes],
      :group => 'prompts.id'
    }
    conditions[:conditions].merge!(:question_id => question_id) if question_id
> 0
    prompts = Prompt.all(conditions)

    elo = {}
    items.each { |item| elo[item] = START_RATING }
    @adj = adj
    prompts.each do |prompt|
      prompt.votes.each do |vote|
        # elo values static during update
        old_elo = elo.clone
        # if vote has items it has winner(s)
        unless vote.items.empty?
          vote.items.each do |item|
            lost_items = prompt.items - vote.items
            lost_items.each do |loser|
              elo[item] += adjust_elo(WIN_SCORE, old_elo[item], elo[loser])
              elo[loser] += adjust_elo(LOSS_SCORE, elo[loser], old_elo[item])
            end
          end
        else

```

```

        # otherwise consider as draw between all prompt items
        prompt.items.each do |item|
          (prompt.items - [item]).each do |other|
            elo[item] += adjust_elo(DRAW_SCORE, elo[item], old_elo[other])
          end
        end # item_ids each
      end # else
    end # votes each
  end # prompts each
  elo = (order == "asc") ? elo.sort_by { |k, v| v } : elo.sort_by { |k, v| -
v }
  elo = elo.first(limit) if limit > 0
  elo.transpose
end

# This value is added to the previous Elo score to obtain the current score.
# ==== Return
# Integer which is the amount by which to adjust the Elo score
# ==== Parameters
# score<int>:: The adjustment value for a win, loss, or draw.
# r_A<int>:: The Elo score of the item whose score to be adjusted.
# r_B<int>:: The Elo score of the item whose score is not being adjusted.
def adjust_elo(score, r_A, r_B)
  k_value(r_A) * (score - expected_score(r_A, r_B))
end

# The score if A plays B.
# ==== Return
# Integer of the expected score.
# ==== Parameters
# r_A<int>:: The Elo score of item A.
# r_B<int>:: The Elo score of item B.
def expected_score(r_A, r_B)
  1 / (1 + 10**((r_B - r_A) / 400.0))
end

# Calculate the K value for an item based on if an adjusted algorithm is
# being used and the score of the item
# ==== Return
# The K value for an item.
# ==== Parameters
# r_A<int>:: The score of the item whose K value is to be generated.
def k_value(r_A)
  if !@adj || r_A < 2100
    K_VALUE
  elsif r_A > 2400
    16
  else
    24
  end
end
end
endmodule AuthenticatedSystem
protected
  # Returns true or false if the user is logged in.

```

```

# Preloads @current_user with the user model if they're logged in.
def logged_in?
  !!current_user
end

# Accesses the current user from the session.
# Future calls avoid the database because nil is not equal to false.
def current_user
  @current_user ||= (login_from_session || login_from_basic_auth ||
login_from_cookie) unless @current_user == false
end

# Store the given user id in the session.
def current_user=(new_user)
  session[:user_id] = new_user ? new_user.id : nil
  @current_user = new_user || false
end

# Check if the user is authorized
#
# Override this method in your controllers if you want to restrict access
# to only a few actions or if you want to check if the user
# has the correct rights.
#
# Example:
#
# # only allow nonbobs
# def authorized?
#   current_user.login != "bob"
# end
#
def authorized?(action = action_name, resource = nil)
  logged_in?
end

# Filter method to enforce a login requirement.
#
# To require logins for all actions, use this in your controllers:
#
#   before_filter :login_required
#
# To require logins for specific actions, use this in your controllers:
#
#   before_filter :login_required, :only => [ :edit, :update ]
#
# To skip this in a subclassed controller:
#
#   skip_before_filter :login_required
#
def login_required
  authorized? || access_denied
end

# Redirect as appropriate when an access request fails.
#

```

```

# The default action is to redirect to the login screen.
#
# Override this method in your controllers if you want to have special
# behavior in case the user is not authorized
# to access the requested action. For example, a popup window might
# simply close itself.
def access_denied
  respond_to do |format|
    format.html do
      store_location
      redirect_to new_session_path
    end
    # format.any doesn't work in rails version <
    http://dev.rubyonrails.org/changeset/8987
    # Add any other API formats here. (Some browsers, notably IE6, send
    Accept: */* and trigger
    # the 'format.any' block incorrectly. See http://bit.ly/ie6_borken or
    http://bit.ly/ie6_borken2
    # for a workaround.)
    format.any(:json, :xml) do
      request_http_basic_authentication 'Web Password'
    end
  end
end

# Store the URI of the current request in the session.
#
# We can return to this location by calling #redirect_back_or_default.
def store_location
  session[:return_to] = request.request_uri
end

# Redirect to the URI stored by the most recent store_location call or
# to the passed default. Set an appropriately modified
# after_filter :store_location, :only => [:index, :new, :show, :edit]
# for any controller you want to be bounce-backable.
def redirect_back_or_default(default)
  redirect_to(session[:return_to] || default)
  session[:return_to] = nil
end

# Inclusion hook to make #current_user and #logged_in?
# available as ActionController helper methods.
def self.included(base)
  base.send :helper_method, :current_user, :logged_in?, :authorized? if
base.respond_to? :helper_method
end

#
# Login
#

# Called from #current_user. First attempt to login by the user id stored
in the session.
def login_from_session

```

```

        self.current_user = User.find_by_id(session[:user_id]) if
session[:user_id]
    end

    # Called from #current_user. Now, attempt to login by basic authentication
information.
    def login_from_basic_auth
        authenticate_with_http_basic do |login, password|
            self.current_user = User.authenticate(login, password)
        end
    end

    #
    # Logout
    #

    # Called from #current_user. Finally, attempt to login by an expiring token
in the cookie.
    # for the paranoid: we _should_ be storing user_token = hash(cookie_token,
request IP)
    def login_from_cookie
        user = cookies[:auth_token] &&
User.find_by_remember_token(cookies[:auth_token])
        if user && user.remember_token?
            self.current_user = user
            handle_remember_cookie! false # freshen cookie token (keeping date)
            self.current_user
        end
    end

    # This is ususally what you want; resetting the session willy-nilly wrecks
# havoc with forgery protection, and is only strictly necessary on login.
# However, **all session state variables should be unset here**.
    def logout_keeping_session!
        # Kill server-side auth cookie
        @current_user.forget_me if @current_user.is_a? User
        @current_user = false # not logged in, and don't do it for me
        kill_remember_cookie! # Kill client-side auth cookie
        session[:user_id] = nil # keeps the session but kill our variable
        # explicitly kill any other session variables you set
    end

    # The session should only be reset at the tail end of a form POST --
    # otherwise the request forgery protection fails. It's only really necessary
    # when you cross quarantine (logged-out to logged-in).
    def logout_killing_session!
        logout_keeping_session!
        reset_session
    end

    #
    # Remember_me Tokens
    #
    # Cookies shouldn't be allowed to persist past their freshness date,
    # and they should be changed at each login

```

```

# Cookies shouldn't be allowed to persist past their freshness date,
# and they should be changed at each login

def valid_remember_cookie?
  return nil unless @current_user
  (@current_user.remember_token?) &&
    (cookies[:auth_token] == @current_user.remember_token)
end

# Refresh the cookie auth token if it exists, create it otherwise
def handle_remember_cookie!(new_cookie_flag)
  return unless @current_user
  case
  when valid_remember_cookie? then @current_user.refresh_token # keeping
same expiry date
  when new_cookie_flag         then @current_user.remember_me
  else                         @current_user.forget_me
  end
  send_remember_cookie!
end

def kill_remember_cookie!
  cookies.delete :auth_token
end

def send_remember_cookie!
  cookies[:auth_token] = {
    :value    => @current_user.remember_token,
    :expires => @current_user.remember_token_expires_at }
end

end

module AuthenticatedTestHelper
  # Sets the current user in the session from the user fixtures.
  def login_as(user)
    @request.session[:user_id] = user ? users(user).id : nil
  end

  def authorize_as(user)
    @request.env["HTTP_AUTHORIZATION"] = user ?
ActionController::HttpAuthentication::Basic.encode_credentials(users(user).login
, 'monkey') : nil
  end

  # rspec
  def mock_user
    user = mock_model(User, :id => 1,
      :login    => 'user_name',
      :name     => 'U. Surname',
      :to_xml   => "User-in-XML", :to_json => "User-in-JSON",
      :errors   => [])
    user
  end
end
end

```

```

module Constants
  CAN_SELECT_PROMPT_ALGORITHM = false
  DEFAULT_PROMPT_ALGORITHM_ID = 1
  MAX_BATCH_PROMPTS = 100
  BASE_URL = "http://pairwise.photocracy.org/"
  ADMIN_EMAILS = "peter@photocracy.org"
  USER_KEY = 'cetuwes9rewruRec6k7hUz4CRabaD7musa3es9muzeda5'

  module Stat
    DEFAULT_RANK_ALGO = 2
  end
endrequire 'logger'
require 'English'
# Jan  2 03:38:05 topfunky postfix/postqueue[2947]: warning blah blah blah

##
# A logger for use with pl_analyze and other tools that expect syslog-style log
output.

class Hodel3000CompliantLogger < Logger

  ##
  # Note: If you are using FastCGI you may need to hard-code the hostname here
  instead of using Socket.gethostname

  def format_message(severity, timestamp, progname, msg)
    "#{timestamp.strftime("%b %d %H:%M:%S")} #{hostname} rails[#{ $PID }]:
#{msg2str(msg).gsub(/\n/, ' ').lstrip}\n"
  end

  # original method, pre-patch for Exception handling:
  #
  # def format_message(severity, timestamp, msg, progname)
  #   "#{timestamp.strftime("%b %d %H:%M:%S")}
#{Socket.gethostname.split('.').first} rails[#{ $PID }]: #{progname.gsub(/\n/,
' ').lstrip}\n"
  # end

  private

  def hostname
    @parsed_hostname ||= Socket.gethostname.split('.').first
  end

  def msg2str(msg)
    case msg
    when ::String
      msg
    when ::Exception
      "#{ msg.message } (#{ msg.class }): " <<
      (msg.backtrace || []).join(" | ")
    else
      msg.inspect
    end
  end
end

```

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end
#!/opt/local/bin/ruby

require File.dirname(__FILE__) + '/../config/environment' unless
defined?(RAILS_ROOT)

# If you're using RubyGems and mod_ruby, this require should be changed to an
absolute path one, like:
# "/usr/local/lib/ruby/gems/1.8/gems/rails-0.8.0/lib/dispatcher" -- otherwise
performance is severely impaired
require "dispatcher"

ADDITIONAL_LOAD_PATHS.reverse.each { |dir| $.unshift(dir) if
File.directory?(dir) } if defined?(Apache::RubyRun)
Dispatcher.dispatchall_wins = Prompt.all(
  :select => "items_votes.item_id, prompts.question_id, COUNT(*) AS count",
  :joins => "INNER JOIN votes ON (votes.prompt_id=prompts.id) INNER JOIN
items_votes ON (votes.id=items_votes.vote_id)",
  :group => "items_votes.item_id, prompts.question_id"
)
all_ratings = Prompt.all(
  :select => "items_prompts.item_id, prompts.question_id, COUNT(*) AS count",
  :joins => "INNER JOIN items_prompts ON (prompts.id=items_prompts.prompt_id)
INNER JOIN votes ON (votes.prompt_id=prompts.id)",
  :group => "items_prompts.item_id, prompts.question_id"
)
all_ratings_no_skips = Prompt.all(
  :select => "items_prompts.item_id, prompts.question_id, COUNT(*) AS count",
  :joins => "INNER JOIN items_prompts ON (prompts.id=items_prompts.prompt_id)
INNER JOIN votes ON (votes.prompt_id=prompts.id) INNER JOIN items_votes ON
(votes.id=items_votes.vote_id)",
  :group => "items_prompts.item_id, prompts.question_id"
)
ItemsQuestion.transaction do
  for iq in ItemsQuestion.all
    wins = all_wins.find { |w| w.item_id.to_i == iq.item_id &&
w.question_id.to_i == iq.question_id }
    ratings = all_ratings.find { |w| w.item_id.to_i == iq.item_id &&
w.question_id.to_i == iq.question_id }
    ratings_no_skips = all_ratings_no_skips.find { |w| w.item_id.to_i ==
iq.item_id && w.question_id.to_i == iq.question_id }
    if ratings
      wins = wins ? wins.count.to_i : 0
      ratings_no_skips = ratings_no_skips ? ratings_no_skips.count.to_i : 0
#      puts "r:#{ratings.count} w:#{wins} l:#{ratings_no_skips - wins}"
      iq.update_attributes(
        :ratings => ratings.count,
        :wins => wins,
        :losses => ratings_no_skips - wins
      )
    end
  end
end
endrequire File.dirname(__FILE__) + '/../spec_helper'
# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead

```



```

# Then, you can remove it from this and the units test.
include AuthenticatedTestHelper

#
# A test controller with and without access controls
#
class AccessControlTestController < ApplicationController
  before_filter :login_required, :only => :login_is_required
  def login_is_required
    respond_to do |format|
      @foo = { 'success' => params[:format] || 'no fmt given' }
      format.html do render :text => "success" end
      format.xml do render :xml => @foo, :status => :ok end
      format.json do render :json => @foo, :status => :ok end
    end
  end
  def login_not_required
    respond_to do |format|
      @foo = { 'success' => params[:format] || 'no fmt given' }
      format.html do render :text => "success" end
      format.xml do render :xml => @foo, :status => :ok end
      format.json do render :json => @foo, :status => :ok end
    end
  end
end

#
# Access Control
#

ACCESS_CONTROL_FORMATS = [
  ['', "success"],
  ['xml', "<?xml version='1.0' encoding='UTF-8'>\n<hash>\n<success>xml</success>\n</hash>\n"],
  ['json', '{"success": "json"}'],
]
ACCESS_CONTROL_AM_I_LOGGED_IN = [
  [:i_am_logged_in, :quentin],
  [:i_am_not_logged_in, nil],
]
ACCESS_CONTROL_IS_LOGIN_REQD = [
  :login_not_required,
  :login_is_required,
]

describe AccessControlTestController do
  fixtures :users
  before do
    # is there a better way to do this?
    ActionController::Routing::Routes.add_route '/login_is_required',
    :controller => 'access_control_test', :action => 'login_is_required'
    ActionController::Routing::Routes.add_route '/login_not_required',
    :controller => 'access_control_test', :action => 'login_not_required'
  end

  ACCESS_CONTROL_FORMATS.each do |format, success_text|
    ACCESS_CONTROL_AM_I_LOGGED_IN.each do |logged_in_status, user_login|
      ACCESS_CONTROL_IS_LOGIN_REQD.each do |login_reqd_status|

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        describe "requesting #{format.blank? ? 'html' : format};
        #{logged_in_status.to_s.humanize} and #{login_reqd_status.to_s.humanize}" do
          before do
            logout_keeping_session!
            @user = format.blank? ? login_as(user_login) :
authorize_as(user_login)
            get login_reqd_status.to_s, :format => format
          end

          if ((login_reqd_status == :login_not_required) ||
            (login_reqd_status == :login_is_required && logged_in_status ==
:i_am_logged_in))
            it "succeeds" do
              response.should have_text(success_text)
              response.code.to_s.should == '200'
            end

            elsif (login_reqd_status == :login_is_required && logged_in_status ==
:i_am_not_logged_in)
              if ['html', ''].include? format
                it "redirects me to the log in page" do
                  response.should redirect_to('/session/new')
                end
              else
                it "returns 'Access denied' and a 406 (Access Denied) status code"
do
                  response.should have_text("HTTP Basic: Access denied.\n")
                  response.code.to_s.should == '401'
                end
              end

              else
                warn "Oops no case for #{format} and
        #{logged_in_status.to_s.humanize} and #{login_reqd_status.to_s.humanize}"
                end
              end # describe

            end
          end
        end # cases

      end

      require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

      describe ApplicationController do
        describe 'force xml' do
          before do
            allow_message_expectations_on_nil
          end

          it 'should merge xml format into params' do

            @controller.params.should_receive(:include?).with(:format).and_return(false)
            @controller.params.should_receive(:merge!).with(:format => :xml)
            @controller.force_xml

```

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end

it 'should not merge xml format into params with format' do

@controller.params.should_receive(:include?).with(:format).and_return(true)
  @controller.params.should_not_receive(:merge!)
  @controller.force_xml
end
end

describe 'admin required' do
  fixtures :users

  it 'should redirect if not logged in' do

@controller.should_receive(:redirect_back_or_default).with('/').and_return(true)
  @controller.current_user = false
  @controller.admin_required
end

  describe 'when logged in' do
    it 'should redirect if not admin' do
      login_as :quentin

@controller.should_receive(:redirect_back_or_default).with('/').and_return(true)
      @controller.admin_required
    end

    it 'should not redirect if admin' do
      login_as :smurf
      @controller.should_not_receive(:redirect_back_or_default)
    end
  end
end
end

require File.dirname(__FILE__) + '/../spec_helper'

# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead
# Then, you can remove it from this and the units test.
include AuthenticatedTestHelper
include AuthenticatedSystem
def action_name() end

describe SessionsController do
  fixtures :users

  before do
    # FIXME -- sessions controller not testing xml logins
    stub!(:authenticate_with_http_basic).and_return nil
  end
  describe "logout_killing_session!" do
    before do
      login_as :quentin
      stub!(:reset_session)
    end
  end
end

```

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        it 'resets the session' do should_receive(:reset_session);
logout_killing_session! end
        it 'kills my auth_token cookie' do should_receive(:kill_remember_cookie!);
logout_killing_session! end
        it 'nils the current user' do logout_killing_session!;
current_user.should be_nil end
        it 'kills :user_id session' do
            session.stub!(:[]=)
            session.should_receive(:[]=).with(:user_id, nil).at_least(:once)
logout_killing_session!
        end
        it 'forgets me' do
            current_user.remember_me
            current_user.remember_token.should_not be_nil;
current_user.remember_token_expires_at.should_not be_nil
            User.find(1).remember_token.should_not be_nil;
User.find(1).remember_token_expires_at.should_not be_nil
logout_killing_session!
            User.find(1).remember_token.should be_nil;
User.find(1).remember_token_expires_at.should be_nil
        end
    end

    describe "logout_keeping_session!" do
        before do
            login_as :quentin
            stub!(:reset_session)
        end
        it 'does not reset the session' do should_not_receive(:reset_session);
logout_keeping_session! end
        it 'kills my auth_token cookie' do should_receive(:kill_remember_cookie!);
logout_keeping_session! end
        it 'nils the current user' do logout_keeping_session!;
current_user.should be_nil end
        it 'kills :user_id session' do
            session.stub!(:[]=)
            session.should_receive(:[]=).with(:user_id, nil).at_least(:once)
logout_keeping_session!
        end
        it 'forgets me' do
            current_user.remember_me
            current_user.remember_token.should_not be_nil;
current_user.remember_token_expires_at.should_not be_nil
            User.find(1).remember_token.should_not be_nil;
User.find(1).remember_token_expires_at.should_not be_nil
logout_keeping_session!
            User.find(1).remember_token.should be_nil;
User.find(1).remember_token_expires_at.should be_nil
        end
    end

    describe 'When logged out' do
        it "should not be authorized?" do
            authorized?().should be_false
        end
    end

```

```

end

#
# Cookie Login
#
describe "Logging in by cookie" do
  def set_remember_token token, time
    @user[:remember_token] = token;
    @user[:remember_token_expires_at] = time
    @user.save!
  end
  before do
    @user = User.find(:first);
    set_remember_token 'hello!', 5.minutes.from_now
  end
  it 'logs in with cookie' do
    stub!(:cookies).and_return({ :auth_token => 'hello!' })
    logged_in?.should be_true
  end

  it 'fails cookie login with bad cookie' do
    should_receive(:cookies).at_least(:once).and_return({ :auth_token =>
'i_haxxor_joo' })
    logged_in?.should_not be_true
  end

  it 'fails cookie login with no cookie' do
    set_remember_token nil, nil
    should_receive(:cookies).at_least(:once).and_return({ })
    logged_in?.should_not be_true
  end

  it 'fails expired cookie login' do
    set_remember_token 'hello!', 5.minutes.ago
    stub!(:cookies).and_return({ :auth_token => 'hello!' })
    logged_in?.should_not be_true
  end
end

end

require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe HomeController do
  fixtures :users, :items, :questions, :items_questions, :rank_algorithms,
:voters, :features, :prompt_requests, :prompts, :stats, :items_stats

  before(:each) do
    @user_id = 1
    login_as('quentin')
  end

  describe 'delete' do
    describe 'get' do
      it 'should require post' do
        # get :delete
      end
    end
  end
end

```

```

    # flash[:message].should == nil
  end

  it 'should redirect' do
    get :delete
    response.should be_redirect
  end
end

describe 'post' do
  before do
    @user = User.find(@user_id)
    @voters = @user.voters
    @items = @user.items
    @questions = @user.questions
    @features = @voters.map(&:features).flatten
    @prompt_requests = @questions.map(&:prompt_requests).flatten |
@items.map(&:prompt_requests).flatten
    @stats = @items.map(&:stats).flatten
    @iqs = @questions.map(&:items_questions).flatten |
@items.map(&:items_questions).flatten
    @prompts = @items.map(&:prompts).flatten
    @votes = @items.map(&:votes).flatten | @prompts.map(&:vote).flatten
    post :delete
  end

  it 'should set flash' do
    # flash[:message].should_not == nil
  end

  it 'should redirect' do
    response.should be_redirect
  end

  #   it 'should delete voters' do
  #     Voter.all(:conditions => { :id => @voters.map(&:id) }).empty?.should ==
true
  #     @user.reload.voters.empty?.should == true
  #   end

  it 'should delete items' do
    Item.all(:conditions => { :id => @items.map(&:id) }).empty?.should ==
true
    @user.reload.items.empty?.should == true
  end

  it 'should delete questions' do
    Question.all(:conditions => { :id => @questions.map(&:id)
}).empty?.should == true
    @user.reload.questions.empty?.should == true
  end

  #   it 'should delete features' do
  #     Feature.all(:conditions => { :id => @features.map(&:id)
}).empty?.should == true

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#         end

        it 'should delete prompt_requests' do
          PromptRequest.all(:conditions => { :id => @prompt_requests.map(&:id)
        }).empty?.should == true
        end

        it 'should delete items questions' do
          ItemsQuestion.all(:conditions => { :id => @iqs.map(&:id)
        }).empty?.should == true
        end

        it 'should delete votes' do
          Vote.all(:conditions => { :id => @votes.map(&:id) }).empty?.should ==
true
        end

        it 'should delete prompts' do
          Prompt.all(:conditions => { :id => @prompts.map(&:id) }).empty?.should
== true
        end
      end
    end
  end
endrequire File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe ItemsController do
  include Algorithms::Rank::Elo
  fixtures :users, :items, :questions, :items_questions, :rank_algorithms,
:votes, :items_votes

  def mock_item(stubs={})
    @mock_item ||= mock_model(Item, stubs)
  end

  before(:each) do
    @user_id = 1
    login_as('quentin')
  end

  def all_user_items
    Item.find(:all, :conditions => { :user_id => @user_id }, :order =>
'created_at asc')
  end

  def items_by_rank_algo(user_id, order, question_id = 0, limit = 0)
    Algorithms::Rank::Elo.score(user_id, order, question_id, limit).first
  end

  describe "responding to GET list" do
    it "should expose all user items as @items" do
      get :list
      assigns[:items].should_not == Item.find(:all)
      assigns[:items].each do |item|
        item.user_id.should == @user_id
      end
    end
  end
end

```

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end

it "should limit items to n" do
  get :list, :limit => 2
  assigns[:items].should == Item.find(:all, :conditions => { :user_id =>
@user_id }, :order => "items.created_at desc")[0,2]
end

it "should order items by order" do
  get :list, :order => 'asc'
  assigns[:items].should == all_user_items
end

it "should order items by order and limit" do
  get :list, :order => 'asc', :limit => 2
  assigns[:items].should == all_user_items[0,2]
end

it "should get items for question" do
  get :list, :question_id => 1
  assigns[:items].each do |item|
    item.questions.first.id.should == 1
  end
end

it "should order by rank algo passing id" do
  get :list, :rank_algorithm => 1
  assigns[:items].should == Item.all(
    :conditions => { :user_id => current_user.id },
    :order => 'items_questions.position desc',
    :include => 'items_questions'
  )
end

it "should order by rank algo passing name" do
  get :list, :rank_algorithm => 'elo'
  assigns[:items].should == Item.all(
    :conditions => { :user_id => current_user.id },
    :order => 'items_questions.position desc',
    :include => 'items_questions'
  )
end

it 'should order by rank algo asc' do
  get :list, :rank_algorithm => 1, :order => 'ASC'
  assigns[:items].should == Item.all(
    :conditions => { :user_id => current_user.id },
    :order => 'items_questions.position asc',
    :include => 'items_questions'
  )
end

it 'should order by rank algo ewp and limit' do
  get :list, :rank_algorithm => 'ewp', :order => 'ASC', :limit => 5
  assigns[:items].length.should == 5
end

```



```

end
end

describe "responding to POST add" do
  it "should return unless post" do
    get :add
    assigns[:items].should == nil
  end

  it "should create items" do
    xml_post :add, 'items_good'
    item = Item.find_by_data('new')
    item2 = Item.find_by_data('new2')
    assigns[:items].should == [ item, item2 ]
    assigns[:items].first.questions.first.id.should == 1
    assigns[:items].first.questions.last.id.should == 2
  end

  it "should store tracking with items if passed" do
    track = "track"
    xml_post :add, 'items_good', :tracking => track
    for item in assigns[:items]
      item.tracking.should == track
    end
  end

  it "should error if invalid question_id" do
    xml_post :add, 'items_bad'
    response.status.should =~ /400/
  end
end

describe "responding to GET activate" do
  it "should activate" do
    get :activate, :id => 1
    assigns[:item].should == Item.find(1)
    assigns[:item].active.should == true
  end

  it "should not activate not owned items" do
    get :activate, :id => 11
    response.status.should =~ /400/
  end
end

describe "responding to GET suspend" do
  it "should suspend" do
    get :suspend, :id => 1
    assigns[:item].should == Item.find(1)
    assigns[:item].active.should == false
  end

  it "should not suspend not owned items" do
    get :suspend, :id => 11
    response.status.should =~ /400/
  end
end

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    end
  end

  describe 'responding to GET show' do
    it 'should expose item' do
      get :show, :id => 1
      assigns[:item].should == Item.find(1)
    end

    it 'should not expose non-user items' do
      get :show, :id => 11
      assigns[:item].should == nil
    end
  end

  describe 'responding to POST delete' do
    fixtures :prompt_requests, :stats, :items_stats

    before do
      @item = Item.first(:conditions => { :user_id => @user_id })
      @iqs = @item.items_questions
      @prompts = @item.prompts
      @stats = @item.stats
      @votes = @item.votes
      @prs = @item.prompt_requests
    end

    it 'should return if not post' do
      get :delete
      assigns[:success].should == nil
    end

    it 'should delete item' do
      post :delete, :id => @item.id
      Item.exists?(@item.id).should == false
    end

    it 'should delete item questions' do
      post :delete, :id => @item.id
      ItemsQuestion.all(:conditions => { :id => @iqs.map(&:id) }).empty?.should
== true
    end

    it 'should delete prompts' do
      post :delete, :id => @item.id
      Prompt.all(:conditions => { :id => @prompts.map(&:id) }).empty?.should ==
true
    end

    it 'should delete votes' do
      post :delete, :id => @item.id
      Vote.all(:conditions => { :id => @votes.map(&:id) }).empty?.should == true
    end

    it 'should delete stats' do

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    post :delete, :id => @item.id
    Stat.all(:conditions => { :id => @stats.map(&:id) }).empty?.should == true
  end

  it 'should delete prompt requests' do
    post :delete, :id => @item.id
    PromptRequest.all(:conditions => { :id => @prs.map(&:id) }).empty?.should
== true
  end

  it 'should assign id' do
    post :delete, :id => @item.id
    assigns[:id].should == @item.id.to_s
  end

  it 'should assign success true' do
    post :delete, :id => @item.id
    assigns[:success].should == true
  end

  it 'should assign success false' do
    post :delete, :id => @item.id
    post :delete, :id => @item.id
    response.status.should =~ /400/
  end
end
endrequire File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe PromptAlgorithmsController do
  fixtures :users, :prompt_algorithms

  before(:each) do
    login_as('quentin')
  end

  describe "responding to GET list" do
    it "should list rank algos" do
      get :list
      assigns[:algorithms].should == PromptAlgorithm.find(:all)
    end
  end
end
endrequire File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe PromptsController do
  fixtures :users, :questions, :prompt_algorithms, :items, :items_questions,
:voters

  before(:each) do
    login_as('quentin')
  end

  describe "responding to GET create" do
    it "should not create prompts without question_id" do
      get :create
    end
  end
end

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    response.status.should =~ /417/
end

it "should not create prompts if user doesn't own voter" do
  get :create, :question_id => 1, :voter_id => 2
  response.status.should =~ /417/
end

it "should not create prompts if user doesn't own question_id" do
  get :create, :question_id => 3, :voter_id => 1
  response.status.should =~ /417/
end

it "should create prompts for question and voter" do
  get :create, :question_id => 1, :voter_id => 1
  assigns[:prompt_item_ids].should_not == nil
  assigns[:prompt_item_ids].should_not == {}
  prompt = Prompt.find(assigns[:prompt_item_ids].keys.first)
  prompt.question.id.should == 1
  prompt.voter_id.should == 1
  prompt.reload.active.should == false
end

it "should create prompts without voter_id" do
  get :create, :question_id => 1
  Prompt.find(assigns[:prompt_item_ids].keys.first).voter_id.should == 0
end

it "should create N prompts for question" do
  get :create, :question_id => 1, :n => 4, :voter_id => 1
  assigns[:prompt_item_ids].should_not == nil
  assigns[:prompt_item_ids].keys.length.should == 4
  assigns[:prompt_item_ids].keys.each do |prompt|
    prompt = Prompt.find(prompt)
    prompt.question.id.should == 1
    prompt.voter.id.should == 1
    prompt.reload.active.should == false
  end
end

# it "should create prompts restricted to items" do
#   items = Item.all(:limit => 3, :conditions => { "items.active" => true,
# "items_questions.question_id" => 1 }, :include => :questions)
#   get :create, :question_id => 1, :n => 2, :item_id =>
items.map(&:id).join(','), :voter_id => 1
#   assigns[:prompt_ids].should_not == nil || []
#   assigns[:prompt_ids].each do |prompt_id|
#     prompt = Prompt.find(prompt_id)
#     prompt.question.id.should == 1
#     prompt.voter.id.should == 1
#     sorted(prompt.items | items).should == sorted(items)
#     prompt.reload.active.should == false
#   end
# end

```

```

    it 'should not set data if not passed' do
      get :create, :question_id => 1
      assigns[:data].should == false
    end

    it 'should set data if passed' do
      get :create, :question_id => 1, :data => 1
      assigns[:data].should == true
    end
  end

  describe "responding to GET list" do
    fixtures :prompts, :items_prompts

    it "should get only users prompts" do
      get :list
      assigns[:prompts].each do |prompt|
        prompt.question.user_id.should == 1
      end
    end

    it "should get prompts for question" do
      get :list, :question_id => 1
      assigns[:prompts].each do |prompt|
        prompt.question.id.should == 1
      end
    end

    it "should get prompts with items" do
      items = Item.all(:limit => 2, :conditions => { :user_id => 1 })
      get :list, :item_id => items.map { |el| el.id }.join(',')
      assigns[:prompts].each do |prompt|
        (prompt.items & items).should_not be_empty
      end
    end
  end

  describe 'responding to GET view' do
    fixtures :prompts, :items_prompts, :items, :stats, :items_stats

    it 'should incr views for prompt' do
      prompt = Prompt.first
      stat = prompt.items.first.stats.first
      get :view, :id => prompt.id
      prompt.items.first.stats.first.views.should == stat.views + 1
    end
  end

  def sorted(items)
    items.sort_by &:id
  end

  require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

  describe PromptsController do

```

```

describe "route recognition" do
  it "should generate params for #vote" do
    params_from(:get, "/prompts/view/1").should == { :controller => "prompts",
:action => "view", :id => '1' }
  end
end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe QuestionsController do
  fixtures :users, :questions, :items, :votes, :prompts

  before(:each) do
    login_as('quentin')
  end

  describe "responding to GET list" do
    it "should get only users questions" do
      get :list
      assigns[:questions].each do |q|
        q.user_id.should == 1
      end
    end

    it 'should get items for question' do
      get :list
      assigns[:items_count].should == User.find(1).items.all(:conditions => {
:active => true }).length
    end

    it 'should get all items for question' do
      get :list
      assigns[:all_items_count].should == User.find(1).items.length
    end

    it 'should get all votes for question' do
      get :list
      assigns[:votes_count].should == Vote.count(:conditions => {
'questions.user_id' => 1 }, :include => { :prompt => :question })
    end
  end

  describe "responding to POST add" do
    it "should add questions" do
      xml_post :add, "questions"
      question = Question.find_by_name('new')
      question2 = Question.find_by_name('new2')
      assigns[:questions].should == [question, question2]
    end
  end

  describe 'responding to GET show' do
    it 'should expose question' do
      get :show, :id => 1
      assigns[:question].should == Question.find(1)
    end
  end
end

```

```

end

it 'should not expose non-user items' do
  get :show, :id => 4
  assigns[:question].should == nil
end

it 'should get items for question' do
  get :show, :id => 1
  assigns[:items_count].should == Question.find(1).items.all(:conditions =>
{ :active => true }).length
end

it 'should get all items for question' do
  get :show, :id => 1
  assigns[:all_items_count].should == Question.find(1).items.length
end

it 'should get all votes for question' do
  get :show, :id => 1
  assigns[:votes_count].should == Vote.count(:conditions => {
'prompts.question_id' => 1 }, :include => :prompt)
end
end

describe 'responding to POST delete' do
  fixtures :items, :items_questions, :prompts, :votes
  before do
    @question = Question.find(1)
    @iqs = @question.items_questions
    @prompts = @question.prompts
    @votes = @prompts.map(&:vote).flatten.compact
    @prqs = @question.prompt_requests
  end

  it 'should return if not post' do
    get :delete
    assigns[:success].should == nil
  end

  it 'should delete question' do
    post :delete, :id => @question.id
    Question.exists?(@question.id).should == false
  end

  it 'should delete item questions' do
    post :delete, :id => @question.id
    ItemsQuestion.all(:conditions => { :id => @iqs.map(&:id) }).empty?.should
== true
  end

  it 'should delete prompt requests' do
    post :delete, :id => @question.id
  end
end

```

```

    PromptRequest.all(:conditions => { :id => @prs.map(&:id) }).empty?.should
== true
    end

    it 'should delete prompts' do
      post :delete, :id => @question.id
      Prompt.all(:conditions => { :id => @prompts.map(&:id) }).empty?.should ==
true
    end

    it 'should delete votes' do
      post :delete, :id => @question.id
      Vote.all(:conditions => { :id => @votes.map(&:id) }).empty?.should == true
    end

    it 'should assign id' do
      post :delete, :id => @question.id
      assigns[:id].should == @question.id.to_s
    end

    it 'should assign success true' do
      post :delete, :id => @question.id
      assigns[:success].should == true
    end

    it 'should assign success false' do
      post :delete, :id => @question.id
      post :delete, :id => @question.id
      response.status.should =~ /400/
    end
  end
end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe RankAlgorithmsController do
  fixtures :users, :rank_algorithms

  before(:each) do
    login_as('quentin')
  end

  describe "responding to GET list" do
    it "should list rank algos" do
      get :list
      assigns[:algorithms].should == RankAlgorithm.find(:all)
    end
  end
end
endrequire File.dirname(__FILE__) + '/../spec_helper'

# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead
# Then, you can remove it from this and the units test.
include AuthenticatedTestHelper

describe SessionsController do
  fixtures :users

```



```

before do
  @user = mock_user
  @login_params = { :login => 'quentin', :password => 'test' }
  User.stub!(:authenticate).with(@login_params[:login],
@login_params[:password]).and_return(@user)
end
def do_create
  post :create, @login_params
end
describe "on successful login," do
  [ [:nil, nil, nil],
    [:expired, 'valid_token', 15.minutes.ago],
    [:different, 'i_haxxor_joo', 15.minutes.from_now],
    [:valid, 'valid_token', 15.minutes.from_now]
  ].each do |has_request_token, token_value, token_expiry|
    [ true, false ].each do |want_remember_me|
      describe "my request cookie token is #{has_request_token.to_s}," do
        describe "and ask #{want_remember_me ? 'to' : 'not to'} be remembered"
do
      before do
        @ccookies = mock('cookies')
        controller.stub!(:cookies).and_return(@ccookies)
        @ccookies.stub!(:[]=).with(:auth_token).and_return(token_value)
        @ccookies.stub!(:delete).with(:auth_token)
        @ccookies.stub!(:[]=)
        @user.stub!(:remember_me)
        @user.stub!(:refresh_token)
        @user.stub!(:forget_me)
        @user.stub!(:remember_token).and_return(token_value)
        @user.stub!(:remember_token_expires_at).and_return(token_expiry)
        @user.stub!(:remember_token?).and_return(has_request_token ==
:valid)

        if want_remember_me
          @login_params[:remember_me] = '1'
        else
          @login_params[:remember_me] = '0'
        end
      end
      it "kills existing login" do
controller.should_receive(:logout_keeping_session!); do_create; end
      it "authorizes me" do do_create;
controller.send(:authorized?).should be_true; end
      it "logs me in" do do_create;
controller.send(:logged_in?).should be_true end
      it "greet me nicely" do do_create;
response.flash[:notice].should =~ /success/i end
      it "sets/resets/expires cookie" do
controller.should_receive(:handle_remember_cookie!).with(want_remember_me);
do_create end
      it "sends a cookie" do
controller.should_receive(:send_remember_cookie!); do_create end
      it 'redirects to the home page' do do_create; response.should
redirect_to('/') end

```

```

        it "does not reset my session" do
controller.should_not_receive(:reset_session).and_return nil; do_create end #
change if you uncomment the reset_session path
        if (has_request_token == :valid)
            it 'does not make new token' do
@user.should_not_receive(:remember_me); do_create end
            it 'does refresh token' do
@user.should_receive(:refresh_token); do_create end
            it "sets an auth cookie" do do_create; end
        else
            if want_remember_me
                it 'makes a new token' do
@user.should_receive(:remember_me); do_create end
                it "does not refresh token" do
@user.should_not_receive(:refresh_token); do_create end
                it "sets an auth cookie" do do_create; end
            else
                it 'does not make new token' do
@user.should_not_receive(:remember_me); do_create end
                it 'does not refresh token' do
@user.should_not_receive(:refresh_token); do_create end
                it 'kills user token' do
@user.should_receive(:forget_me); do_create end
            end
        end
        end # inner describe
    end
end
end
end

describe "on failed login" do
    before do
        User.should_receive(:authenticate).with(anything(),
anything()).and_return(nil)
        login_as :quentin
    end
    it 'logs out keeping session' do
controller.should_receive(:logout_keeping_session!); do_create end
    it 'flashes an error' do do_create; flash[:error].should =~
/Couldn't log you in as 'quentin'/ end
    it 'renders the log in page' do do_create; response.should
render_template('new') end
    it "doesn't log me in" do do_create;
controller.send(:logged_in?).should == false end
    it "doesn't send password back" do
        @login_params[:password] = 'FROBNOZZ'
        do_create
        response.should_not have_text(/FROBNOZZ/i)
    end
end
end

describe "on signout" do
    def do_destroy
        get :destroy
    end
end

```

```

    end
    before do
      login_as :quentin
    end
    it 'logs me out' do
      controller.should_receive(:logout_killing_session!); do_destroy end
      it 'redirects me to the home page' do do_destroy; response.should
        be_redirect end
      end
    end

  end

  describe SessionsController do
    describe "route generation" do
      it "should route the new sessions action correctly" do
        route_for(:controller => 'sessions', :action => 'new').should == { :path
=> "/login", :method => :get }
      end
      it "should route the create sessions correctly" do
        route_for(:controller => 'sessions', :action => 'create').should == {
:path => "/session", :method => :post }
      end
      it "should route the destroy sessions action correctly" do
        route_for(:controller => 'sessions', :action => 'destroy').should == {
:path => "/logout", :method => :delete }
      end
    end

    describe "route recognition" do
      it "should generate params from GET /login correctly" do
        params_from(:get, '/login').should == {:controller => 'sessions', :action
=> 'new'}
      end
      it "should generate params from POST /session correctly" do
        params_from(:post, '/session').should == {:controller => 'sessions',
:action => 'create'}
      end
      it "should generate params from DELETE /session correctly" do
        params_from(:delete, '/logout').should == {:controller => 'sessions',
:action => 'destroy'}
      end
    end

    describe "named routing" do
      before(:each) do
        get :new
      end
      it "should route session_path() correctly" do
        session_path().should == "/session"
      end
      it "should route new_session_path() correctly" do
        new_session_path().should == "/session/new"
      end
    end
  end
end

```

```
end
require File.dirname(__FILE__) + '/../spec_helper'

describe UsersController do
  fixtures :users

  it 'allows signup' do
    lambda do
      create_user
      response.should be_redirect
    end.should change(User, :count).by(1)
  end

  it 'signs up user in pending state' do
    create_user
    assigns(:user).reload
    assigns(:user).should be_pending
  end

  it 'signs up user with activation code' do
    create_user
    assigns(:user).reload
    assigns(:user).activation_code.should_not be_nil
  end

  it 'requires login on signup' do
    lambda do
      create_user(:login => nil)
      assigns[:user].errors.on(:login).should_not be_nil
      response.should be_success
    end.should_not change(User, :count)
  end

  it 'requires password on signup' do
    lambda do
      create_user(:password => nil)
      assigns[:user].errors.on(:password).should_not be_nil
      response.should be_success
    end.should_not change(User, :count)
  end

  it 'requires password confirmation on signup' do
    lambda do
      create_user(:password_confirmation => nil)
      assigns[:user].errors.on(:password_confirmation).should_not be_nil
      response.should be_success
    end.should_not change(User, :count)
  end

  it 'requires email on signup' do
    lambda do
      create_user(:email => nil)
      assigns[:user].errors.on(:email).should_not be_nil
      response.should be_success
    end.should_not change(User, :count)
  end
end
```

```

it 'activates user' do
  User.authenticate('aaron', 'monkey').should be_nil
  get :activate, :id => users(:aaron).activation_code
  response.should redirect_to('/login')
  flash[:notice].should_not be_nil
  flash[:error ].should      be_nil
  User.authenticate('aaron', 'monkey').should == users(:aaron)
end

it 'does not activate user without key' do
  get :activate
  flash[:notice].should      be_nil
  flash[:error ].should_not be_nil
end

it 'does not activate user with blank key' do
  get :activate, :activation_code => ''
  flash[:notice].should      be_nil
  flash[:error ].should_not be_nil
end

it 'does not activate user with bogus key' do
  get :activate, :activation_code => 'i_haxxor_joo'
  flash[:notice].should      be_nil
  flash[:error ].should_not be_nil
end

describe 'xml users' do
  # password == jopass
  before do
    @param = { :key =>
Base64.encode64('cetuwes9rewruRec6k7hUz4CRabaD7musa3es9muzeda5') }
  end

  it 'requires a key' do
    lambda do
      xml_post :add, 'user'
    end.should_not change(User, :count)
  end

  it 'create new user' do
    lambda do
      xml_post :add, 'user', @param
    end.should change(User, :count)
  end

  it 'create new active user' do
    xml_post :add, 'user', @param
    User.last.state.should == 'active'
  end
end
end

```

```

def create_user(options = {})
  post :create, :user => { :login => 'quire', :email => 'quire@example.com',
    :password => 'quire69', :password_confirmation => 'quire69'
  }.merge(options)
end

describe UsersController do
  describe "route generation" do
    it "should route users's 'index' action correctly" do
      route_for(:controller => 'users', :action => 'index').should == "/users"
    end

    it "should route users's 'new' action correctly" do
      route_for(:controller => 'users', :action => 'new').should == "/signup"
    end

    it "should route {:controller => 'users', :action => 'create'} correctly" do
      route_for(:controller => 'users', :action => 'create').should ==
"/register"
    end

    it "should route users's 'show' action correctly" do
      route_for(:controller => 'users', :action => 'show', :id => '1').should ==
{ :path => "/users/1", :method => :get }
    end

    it "should route users's 'edit' action correctly" do
      route_for(:controller => 'users', :action => 'edit', :id => '1').should ==
{ :path => "/users/1/edit", :method => :get }
    end

    it "should route users's 'update' action correctly" do
      route_for(:controller => 'users', :action => 'update', :id => '1').should
== { :path => "/users/1", :method => :put }
    end

    it "should route users's 'destroy' action correctly" do
      route_for(:controller => 'users', :action => 'destroy', :id => '1').should
== { :path => "/users/1", :method => :delete }
    end

    describe "route recognition" do
      it "should generate params for users's index action from GET /users" do
        params_from(:get, '/users').should == {:controller => 'users', :action =>
'index'}
        params_from(:get, '/users.xml').should == {:controller => 'users', :action
=> 'index', :format => 'xml'}
        params_from(:get, '/users.json').should == {:controller => 'users',
:action => 'index', :format => 'json'}
      end

      it "should generate params for users's new action from GET /users" do

```

```

    params_from(:get, '/users/new').should == {:controller => 'users', :action
=> 'new'}
    params_from(:get, '/users/new.xml').should == {:controller => 'users',
:action => 'new', :format => 'xml'}
    params_from(:get, '/users/new.json').should == {:controller => 'users',
:action => 'new', :format => 'json'}
    end

    it "should generate params for users's create action from POST /users" do
    params_from(:post, '/users').should == {:controller => 'users', :action =>
'create'}
    params_from(:post, '/users.xml').should == {:controller => 'users',
:action => 'create', :format => 'xml'}
    params_from(:post, '/users.json').should == {:controller => 'users',
:action => 'create', :format => 'json'}
    end

    it "should generate params for users's show action from GET /users/1" do
    params_from(:get , '/users/1').should == {:controller => 'users', :action
=> 'show', :id => '1'}
    params_from(:get , '/users/1.xml').should == {:controller => 'users',
:action => 'show', :id => '1', :format => 'xml'}
    params_from(:get , '/users/1.json').should == {:controller => 'users',
:action => 'show', :id => '1', :format => 'json'}
    end

    it "should generate params for users's edit action from GET /users/1/edit"
do
    params_from(:get , '/users/1/edit').should == {:controller => 'users',
:action => 'edit', :id => '1'}
    end

    it "should generate params {:controller => 'users', :action => update', :id
=> '1'} from PUT /users/1" do
    params_from(:put , '/users/1').should == {:controller => 'users', :action
=> 'update', :id => '1'}
    params_from(:put , '/users/1.xml').should == {:controller => 'users',
:action => 'update', :id => '1', :format => 'xml'}
    params_from(:put , '/users/1.json').should == {:controller => 'users',
:action => 'update', :id => '1', :format => 'json'}
    end

    it "should generate params for users's destroy action from DELETE /users/1"
do
    params_from(:delete, '/users/1').should == {:controller => 'users',
:action => 'destroy', :id => '1'}
    params_from(:delete, '/users/1.xml').should == {:controller => 'users',
:action => 'destroy', :id => '1', :format => 'xml'}
    params_from(:delete, '/users/1.json').should == {:controller => 'users',
:action => 'destroy', :id => '1', :format => 'json'}
    end
end

describe "named routing" do
  before(:each) do

```

```

    get :new
  end

  it "should route users_path() to /users" do
    users_path().should == "/users"
    # formatted_users_path(:format => 'xml').should == "/users.xml"
    # formatted_users_path(:format => 'json').should == "/users.json"
  end

  it "should route new_user_path() to /users/new" do
    new_user_path().should == "/users/new"
    # formatted_new_user_path(:format => 'xml').should == "/users/new.xml"
    # formatted_new_user_path(:format => 'json').should == "/users/new.json"
  end

  it "should route user_(id => '1') to /users/1" do
    user_path(:id => '1').should == "/users/1"
    # formatted_user_path(:id => '1', :format => 'xml').should ==
    # "/users/1.xml"
    # formatted_user_path(:id => '1', :format => 'json').should ==
    # "/users/1.json"
  end

  it "should route edit_user_path(:id => '1') to /users/1/edit" do
    edit_user_path(:id => '1').should == "/users/1/edit"
  end
end

end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe VotersController do
  fixtures :users, :voters

  before(:each) do
    login_as('quentin')
  end

  describe "responding to GET list" do
    it "should return all of the users voters" do
      get :list
      assigns[:voters].should == Voter.find_all_by_user_id(1)
      assigns[:voters].each do |voter|
        voter.user_id.should == 1
      end
    end
  end
end

describe "responding to POST add" do
  it "should create new voters" do
    xml_post :add, 'voters'
    voters = Voter.find_all_by_user_id(1)[-2,2]
    assigns[:voters].should == voters
    assigns[:voters].each do |voter|
      voter.features.first.name.should == "gender"
    end
  end
end

```



```

        end
        assigns[:voters].first.features.first.value.should == 0
        assigns[:voters].last.features.first.value.should == 1
    end
end

describe "responding to GET set" do
  it "should require a voter id of the user" do
    get :set, :id => 2
    response.status.should =~ /400/
  end

  it "should update the feature" do
    voter = Voter.find(1)
    voter.features.clear
    get :set, :id => 1, :gender => 1
    voter.reload
    feature = voter.features.find_by_name('gender')
    assigns[:voter].should == voter
    feature.value.should == 1
    voter.features.should == [feature]
  end
end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe VotersController do
  describe "route generation" do
    it "should map #index" do
      route_for(:controller => "voters", :action => "index").should == {:path =>
"/voters", :method => :get}
    end

    it "should map #new" do
      route_for(:controller => "voters", :action => "new").should == {:path =>
"/voters/new", :method => :get}
    end

    it "should map #show" do
      route_for(:controller => "voters", :action => "show", :id => "1").should
== {:path => "/voters/1", :method => :get}
    end

    it "should map #edit" do
      route_for(:controller => "voters", :action => "edit", :id => "1").should
== {:path => "/voters/1/edit", :method => :get}
    end

    it "should map #update" do
      route_for(:controller => "voters", :action => "update", :id => "1").should
== {:path => "/voters/1", :method => :put}
    end

    it "should map #destroy" do

```

```

    route_for(:controller => "voters", :action => "destroy", :id =>
"1").should == {:path => "/voters/1", :method => :delete}
    end
  end

  describe "route recognition" do
    it "should generate params for #index" do
      params_from(:get, "/voters").should == {:controller => "voters", :action
=> "index"}
    end

    it "should generate params for #new" do
      params_from(:get, "/voters/new").should == {:controller => "voters",
:action => "new"}
    end

    it "should generate params for #create" do
      params_from(:post, "/voters").should == {:controller => "voters", :action
=> "create"}
    end

    it "should generate params for #show" do
      params_from(:get, "/voters/1").should == {:controller => "voters", :action
=> "show", :id => "1"}
    end

    it "should generate params for #edit" do
      params_from(:get, "/voters/1/edit").should == {:controller => "voters",
:action => "edit", :id => "1"}
    end

    it "should generate params for #update" do
      params_from(:put, "/voters/1").should == {:controller => "voters", :action
=> "update", :id => "1"}
    end

    it "should generate params for #destroy" do
      params_from(:delete, "/voters/1").should == {:controller => "voters",
:action => "destroy", :id => "1"}
    end
  end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe VotesController do
  fixtures :users, :questions, :prompts, :items_prompts, :prompt_algorithms,
:items, :items_questions, :voters, :rank_algorithms

  before(:each) do
    login_as('quentin')
  end

  describe "responding to GET add" do
    before do
      Vote.delete_all
    end
  end
end

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    Stat.delete_all
    ActiveRecord::Base.connection.execute("DELETE FROM `items_stats`")
    for iq in ItemsQuestion.all
      iq.update_attributes({:ratings => 0, :wins => 0, :losses => 0})
    end
  end

  it "should require prompt_id" do
    get :add
    response.status.should =~ /417/
  end

  it "should require prompt_id with skip" do
    get :add, :skip => 1
    response.status.should =~ /417/
  end

  it "should require prompt_id with item" do
    get :add, :item_id => 1
    response.status.should =~ /417/
  end

  it "should require item_id in prompt" do
    get :add, :prompt_id => 1, :item_id => 3, :voter_id => 1
    response.status.should =~ /417/
  end

  it "should require user voter" do
    get :add, :prompt_id => 1, :item_id => 1, :voter_id => 2
    response.status.should =~ /403/
  end

  it "should add vote" do
    get :add, :prompt_id => 1, :item_id => 1, :voter_id => 1
    assigns[:vote].items.first.id.should == 1
    assigns[:vote].prompt_id.should == 1
  end

  it 'should allow skip' do
    get :add, :prompt_id => 1, :voter_id => 1, :skip => 1
    assigns[:vote].prompt_id.should == 1
    assigns[:vote].items.should be_empty
  end

  it 'should allow 0 voter id' do
    get :add, :prompt_id => 1, :item_id => 1, :voter_id => 0
    assigns[:vote].items.first.id.should == 1
    assigns[:vote].prompt_id.should == 1
  end

  it "should add vote for multiple items" do
    get :add, :prompt_id => 1, :item_id => '1,2', :voter_id => 0
    assigns[:vote].voter_id.should == 0
  end

```

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it "should add vote with response time" do
  # 100 == 1s
  get :add, :prompt_id => 1, :item_id => 1, :voter_id => 1, :response_time
=> 100
  assigns[:vote].response_time.should == 100
end

it 'should increment ratings' do
  items = Prompt.find(1).items
  get :add, :prompt_id => 1, :voter_id => 1, :skip => 1
  prompt = Prompt.find(1)
  prompt.items.each do |item|
    item.iq(prompt.question_id).ratings.should ==
items.shift.iq(prompt.question_id).ratings
  end
end

it 'should keep stored ratings aligned with db records' do
  for prompt in Prompt.all do
    get :add, :prompt_id => prompt.id, :voter_id => 1, :skip => 1
  end
  for prompt in Prompt.all do
    prompt.items.each do |item|
      item.iq(prompt.question_id).ratings.should == Vote.count(
        :joins => "INNER JOIN prompts ON (votes.prompt_id=prompts.id) INNER
JOIN items_prompts ON (prompts.id=items_prompts.prompt_id AND
items_prompts.item_id=#{item.id})",
        :conditions => { 'prompts.question_id' => prompt.question_id }
      )
    end
  end
end

it 'should increment wins of winner' do
  prompt = Prompt.find(1)
  wins = Item.find(1).iq(prompt.question_id).wins
  get :add, :prompt_id => 1, :item_id => 1, :voter_id => 1
  Item.find(1).iq(prompt.question_id).wins.should == wins + 1
end

it 'should keep stored wins aligned with db records' do
  i = 0
  for prompt in Prompt.all do
    if ((i += 1) % 2).zero?
      get :add, :prompt_id => prompt.id, :voter_id => 1, :item_id => 1
    else
      get :add, :prompt_id => prompt.id, :voter_id => 1, :skip => 1
    end
  end
  item = Item.find(1)
  item.iq(1).wins.should == Vote.count(
    :joins => "INNER JOIN prompts ON (votes.prompt_id=prompts.id) INNER JOIN
items_votes ON (votes.id=items_votes.vote_id AND
items_votes.item_id=#{item.id})",
    :conditions => { 'prompts.question_id' => 1 }
  )
end

```

```

    )
  end

  it 'should keep store losses aligned with db losses' do
    i = 0
    for prompt in Prompt.all do
      if ((i += 1) % 2).zero?
        get :add, :prompt_id => prompt.id, :voter_id => 1, :item_id => 1
      else
        get :add, :prompt_id => prompt.id, :voter_id => 1, :skip => 1
      end
    end
    for item in Item.all
      item.iq(prompt.question_id).losses.should == Prompt.count(
        :joins => "INNER JOIN items_prompts ON
        (prompts.id=items_prompts.prompt_id AND items_prompts.item_id=#{item.id}) INNER
        JOIN votes ON (votes.prompt_id=prompts.id) INNER JOIN items_votes ON
        (votes.id=items_votes.vote_id AND items_votes.item_id!=items_prompts.item_id)",
        :conditions => { 'prompts.question_id' => prompt.question_id }
      )
    end
  end

  it 'should have total ratings equal to number vote records * 2' do
    i = 0
    for prompt in Prompt.all do
      if ((i += 1) % 2).zero?
        get :add, :prompt_id => prompt.id, :voter_id => 1, :item_id => 1
      else
        get :add, :prompt_id => prompt.id, :voter_id => 1, :skip => 1
      end
    end
    ItemsQuestion.all.sumup(:ratings).should == Vote.count * 2
  end

  it 'should have total wins equal to number vote records with items * 2' do
    i = 0
    for prompt in Prompt.all do
      if ((i += 1) % 2).zero?
        get :add, :prompt_id => prompt.id, :voter_id => 1, :item_id => 1
      else
        get :add, :prompt_id => prompt.id, :voter_id => 1, :skip => 1
      end
    end
    ItemsQuestion.all.sumup(:wins).should == Prompt.all(
      :select => "items_votes.item_id, prompts.question_id, COUNT(*) AS
count",
      :joins => "INNER JOIN votes ON (votes.prompt_id=prompts.id) INNER JOIN
items_votes ON (votes.id=items_votes.vote_id)",
      :group => "items_votes.item_id, prompts.question_id"
    ).sumup(:count)
  end

  it 'should have total skips equal to number vote records without items * 2'
do

```

```

i = 0
for prompt in Prompt.all do
  if ((i += 1) % 2).zero?
    get :add, :prompt_id => prompt.id, :voter_id => 1, :item_id => 1
  else
    get :add, :prompt_id => prompt.id, :voter_id => 1, :skip => 1
  end
end
ItemsQuestion.all.inject(0) do |sum, iq|
  sum += iq.ratings - iq.wins - iq.losses
end.should == Prompt.all(
  :select => "items_votes.item_id, prompts.question_id, COUNT(*) AS
count",
  :joins => "INNER JOIN votes ON (votes.prompt_id=prompts.id) LEFT OUTER
JOIN items_votes ON (votes.id=items_votes.vote_id)",
  :conditions => "items_votes.item_id IS NULL",
  :group => "items_votes.item_id, prompts.question_id"
).sumup(:count) * 2
end

it 'should adjust elo with winner' do
  prompt = Prompt.find(1)
  old_first = prompt.items.first.iq(prompt.question_id).position
  old_last = prompt.items.last.iq(prompt.question_id).position
  get :add, :prompt_id => 1, :item_id => 1, :voter_id => 1
  (prompt.items.first.iq(prompt.question_id).position > old_first).should ==
true
  (prompt.items.last.iq(prompt.question_id).position < old_last).should ==
true
end

it 'should adjust elo with skip' do
  prompt = Prompt.find(1)
  old_first = prompt.items.first.iq(prompt.question_id).position
  old_last = prompt.items.last.iq(prompt.question_id).position
  get :add, :prompt_id => 1, :skip => 1, :voter_id => 1
  prompt.items.first.iq(prompt.question_id).position.should == old_first
  prompt.items.last.iq(prompt.question_id).position.should == old_last - 1
end

it 'should create stat for items' do
  get :add, :prompt_id => 1, :skip => 1, :voter_id => 1
  Prompt.find(1).items.each do |item|
    item.stats.empty?.should == false
  end
end

it 'should set stats for items' do
  get :add, :prompt_id => 1, :skip => 1, :voter_id => 1
  Prompt.find(1).items.each do |item|
    item.stats.each { |stat| stat.votes.should == 1 }
  end
end

it 'should add tracking for vote' do

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        tracking = 'DATA STRING'
        get :add, :prompt_id => 1, :skip => 1, :voter_id => 1, :tracking =>
tracking
        Vote.last.tracking.should == tracking
    end
end

describe "responding to GET list" do
    it "should only get votes for user" do
        get :list
        assigns[:votes].each do |vote|
            vote.prompt.question.user_id.should == 1
        end
    end
end

endrequire File.dirname(__FILE__) + '/../spec_helper'
include ApplicationHelper
include UsersHelper
include AuthenticatedTestHelper

describe UsersHelper do
    before do
        @user = mock_user
    end

    describe "if_authorized" do
        it "yields if authorized" do
            should_receive(:authorized?).with('a','r').and_return(true)
            if_authorized?('a','r'){|action,resource| [action,resource,'hi'] }.should
== ['a','r','hi']
        end
        it "does nothing if not authorized" do
            should_receive(:authorized?).with('a','r').and_return(false)
            if_authorized?('a','r'){ 'hi' }.should be_nil
        end
    end

    describe "link_to_user" do
        it "should give an error on a nil user" do
            lambda { link_to_user(nil) }.should raise_error('Invalid user')
        end
        it "should link to the given user" do
            should_receive(:user_path).at_least(:once).and_return('/users/1')
            link_to_user(@user).should have_tag("a[href='/users/1']")
        end
        it "should use given link text if :content_text is specified" do
            link_to_user(@user, :content_text => 'Hello there!').should have_tag("a",
'Hello there!')
        end
        it "should use the login as link text with no :content_method specified" do
            link_to_user(@user).should have_tag("a", 'user_name')
        end
        it "should use the name as link text with :content_method => :name" do
            link_to_user(@user, :content_method => :name).should have_tag("a", 'U.
Surname')
        end
    end
end

```

```

end
it "should use the login as title with no :title_method specified" do
  link_to_user(@user).should have_tag("a[title='user_name']")
end
it "should use the name as link title with :content_method => :name" do
  link_to_user(@user, :title_method => :name).should have_tag("a[title='U.
Surname']")
end
it "should have nickname as a class by default" do
  link_to_user(@user).should have_tag("a.nickname")
end
it "should take other classes and no longer have the nickname class" do
  result = link_to_user(@user, :class => 'foo bar')
  result.should have_tag("a.foo")
  result.should have_tag("a.bar")
end
end

describe "link_to_login_with_IP" do
  it "should link to the login_path" do
    link_to_login_with_IP().should have_tag("a[href='/login']")
  end
  it "should use given link text if :content_text is specified" do
    link_to_login_with_IP('Hello there!').should have_tag("a", 'Hello there!')
  end
  it "should use the login as link text with no :content_method specified" do
    link_to_login_with_IP().should have_tag("a", '0.0.0.0')
  end
  it "should use the ip address as title" do
    link_to_login_with_IP().should have_tag("a[title='0.0.0.0']")
  end
  it "should by default be like school in summer and have no class" do
    link_to_login_with_IP().should_not have_tag("a.nickname")
  end
  it "should have some class if you tell it to" do
    result = link_to_login_with_IP(nil, :class => 'foo bar')
    result.should have_tag("a.foo")
    result.should have_tag("a.bar")
  end
  it "should have some class if you tell it to" do
    result = link_to_login_with_IP(nil, :tag => 'abbr')
    result.should have_tag("abbr[title='0.0.0.0']")
  end
end

describe "link_to_current_user, When logged in" do
  before do
    stub!(:current_user).and_return(@user)
  end
  it "should link to the given user" do
    should_receive(:user_path).at_least(:once).and_return('/users/1')
    link_to_current_user().should have_tag("a[href='/users/1']")
  end
  it "should use given link text if :content_text is specified" do

```



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        link_to_current_user(:content_text => 'Hello there!').should have_tag("a",
'Hello there!')
    end
    it "should use the login as link text with no :content_method specified" do
        link_to_current_user().should have_tag("a", 'user_name')
    end
    it "should use the name as link text with :content_method => :name" do
        link_to_current_user(:content_method => :name).should have_tag("a", 'U.
Surname')
    end
    it "should use the login as title with no :title_method specified" do
        link_to_current_user().should have_tag("a[title='user_name']")
    end
    it "should use the name as link title with :content_method => :name" do
        link_to_current_user(:title_method => :name).should have_tag("a[title='U.
Surname']")
    end
    it "should have nickname as a class" do
        link_to_current_user().should have_tag("a.nickname")
    end
    it "should take other classes and no longer have the nickname class" do
        result = link_to_current_user(:class => 'foo bar')
        result.should have_tag("a.foo")
        result.should have_tag("a.bar")
    end
end

describe "link_to_current_user, When logged out" do
    before do
        stub!(:current_user).and_return(nil)
    end
    it "should link to the login_path" do
        link_to_current_user().should have_tag("a[href='/login']")
    end
    it "should use given link text if :content_text is specified" do
        link_to_current_user(:content_text => 'Hello there!').should have_tag("a",
'Hello there!')
    end
    it "should use 'not signed in' as link text with no :content_method
specified" do
        link_to_current_user().should have_tag("a", 'not signed in')
    end
    it "should use the ip address as title" do
        link_to_current_user().should have_tag("a[title='0.0.0.0']")
    end
    it "should by default be like school in summer and have no class" do
        link_to_current_user().should_not have_tag("a.nickname")
    end
    it "should have some class if you tell it to" do
        result = link_to_current_user(:class => 'foo bar')
        result.should have_tag("a.foo")
        result.should have_tag("a.bar")
    end
end
end

```

```

end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe VotersHelper do

  #Delete this example and add some real ones or delete this file
  it "should be included in the object returned by #helper" do
    included_modules = (class << helper; self; end).send :included_modules
    included_modules.should include(VotersHelper)
  end

end

require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe Feature do
  before(:each) do
    @valid_attributes = {
      :voter_id => "1",
      :name => "value for name",
      :value => "value for value"
    }
  end

  it "should create a new instance given valid attributes" do
    Feature.create!(@valid_attributes)
  end
end

require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe Item do
  before(:each) do
    @valid_attributes = {
      :user_id => "1",
      :data => "value for name"
    }
  end

  it "should create a new instance given valid attributes" do
    Item.create!(@valid_attributes)
  end
end

require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe ItemsQuestion do
  before(:each) do
    @valid_attributes = {
      :item_id => "1",
      :question_id => "1",
      :position => "1",
      :wins => "1",
      :ratings => "1"
    }
  end

  it "should create a new instance given valid attributes" do

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    ItemsQuestion.create!(@valid_attributes)
  end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe PromptAlgorithm do
  before(:each) do
    @valid_attributes = {
      :name => "1",
      :data => "1"
    }
  end

  it "should create a new instance given valid attributes" do
    PromptAlgorithm.create!(@valid_attributes)
  end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe PromptRequest do
  before(:each) do
    @valid_attributes = {
      :question_id => "1",
      :voter_id => "1"
    }
  end

  it "should create a new instance given valid attributes" do
    PromptRequest.create!(@valid_attributes)
  end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe Prompt do
  before(:each) do
    @valid_attributes = {
      :question_id => "1",
      :prompt_algorithm_id => "1",
      :voter_id => "1"
    }
  end

  it "should create a new instance given valid attributes" do
    Prompt.create!(@valid_attributes)
  end
end

# describe 'find or create' do
#   before do
#     @prompt = mock_model(Prompt)
#   end
#
#   it 'should find prompts for args' do
#     Prompt.should_receive(:find_for).with({}, nil, 1).and_return(@prompt)
#     @prompt.should_receive(:length).and_return(1)
#     @prompt.should_receive(:map).and_return([1])
#   end
# end

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#     @prompt.should_receive(:empty?).and_return(false)
#     Prompt.find_or_create({}, nil, 1).should == @prompt
# end
#
# it 'should deactivate prompts' do
#     Prompt.should_receive(:find_for).with({}, nil, 1).and_return(@prompt)
#     @prompt.should_receive(:length).and_return(1)
#     @prompt.should_receive(:empty?).and_return(false)
#     @prompt.should_receive(:map).and_return([1])
#     Prompt.should_receive(:update_all).with("active=0", "prompts.id IN (1)")
#     Prompt.find_or_create({}, nil, 1).should == @prompt
# end
#
# it 'should not deactivate prompts if prompts are empty' do
#     Prompt.should_receive(:find_for).with({}, nil, 1).and_return(@prompt)
#     @prompt.should_receive(:length).and_return(1)
#     @prompt.should_receive(:empty?).and_return(true)
#     Prompt.should_not_receive(:update_all)
#     @prompt.should_not_receive(:map)
#     Prompt.find_or_create({}, nil, 1).should == @prompt
# end
#
# it 'should request missing prompts' do
#     Prompt.should_receive(:find_for).with({}, nil, 2).and_return([@prompt])
#     Prompt.should_receive(:request).with({:count => 1},
nil).and_return([@prompt])
#     @prompt.should_receive(:question_id).twice.and_return([1])
#     @prompt.should_receive(:items).twice.and_return([])
#     Prompt.find_or_create({}, nil, 2).should == Array.new(2, @prompt)
# end
#
# it 'should create stats for items in prompts' do
#     items = Array.new(2, mock_model(Item))
#     Stat.should_receive(:view).with(1, items).twice
#     Prompt.should_receive(:find_for).with({}, nil, 2).and_return([@prompt])
#     Prompt.should_receive(:request).with({:count => 1},
nil).and_return([@prompt])
#     @prompt.should_receive(:question_id).twice.and_return(1)
#     @prompt.should_receive(:items).twice.and_return(items)
#     Prompt.find_or_create({}, nil, 2).should == Array.new(2, @prompt)
# end
# end

describe 'prompt request algo' do
  fixtures :items, :questions, :items_questions, :rank_algorithms

  before do
    @question = Question.first
    @voter_id = 0
    @num = 1
    @items = Item.all(
      {
        :joins => "INNER JOIN items_questions ON
(items_questions.question_id=#{@question.id} AND
items_questions.item_id=items.id)",
        :conditions => { :active => true },

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      :group => "items.id"
    })
    srand 1234
    @count = 10
    items = @items.dup
    @prompt_items = @count.times.inject([]) do |arr, i|
      items = @items.dup if items.length < 2 # ensure we still have items
      el = items.delete_at(rand(items.length))
      arr << [el, items.delete_at(rand(items.length))]
    end
    Prompt.delete_all
    PromptRequest.delete_all
    Stat.delete_all
    ActiveRecord::Base.connection.execute("DELETE FROM `items_stats`")
    srand 1234
  end

  it 'should return prompt' do
    Prompt.fetch(@question.id, @voter_id, @num, false).empty?.should == false
  end

  it "should return same as seeded prompts if count < #{@count}" do
    pids = @prompt_items[0].map(&:id).sort
    (Prompt.find(Prompt.fetch(@question.id, @voter_id, @num,
false).first.first)).items.map(&:id) | pids).sort.should == pids
  end

  it 'should set prompts inactive' do
    Prompt.find(Prompt.fetch(@question.id, @voter_id, @num,
false).first.first).reload.active.should == false
  end

  it 'should set view for prompt items' do
    Prompt.find(Prompt.fetch(@question.id, @voter_id, @num,
false).first.first).items.map{ |i| i.reload.stats }.flatten.each do |stat|
      stat.views.should == 1
    end
  end

  it 'should return standard random prompt prime and no stats' do
    prompts = Prompt.find(Prompt.fetch(@question.id, @voter_id, @count,
true).keys)
    @prompt_items.each do |items|
      pids = items.map(&:id).sort
      (prompts.shift.items.map(&:id).sort | pids).sort.should == pids
    end
  end

  describe 'with stats' do
    before do
      Stat.delete_all
      @count = 10
      Prompt.fetch(@question.id, @voter_id, @count, false).keys.each do
|prompt_id|
        prompt = Prompt.find(prompt_id)

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    if (prompt_id % 2).zero?
      2.times { Stat.vote(prompt.question_id, prompt.items) }
    else
      Stat.view(prompt.question_id, prompt.items)
    end
  end
  srand 1234
  stats = Stat.find_all_by_question_id(@question.id, :order => 'score')
  pos = stats.map(&:score).min.abs + 1
  norm = cur = 0
  # the probability of choose the items in a stat is stat.score /
sum(stats.scores)
  stats = stats.inject({}) do |hash, stat|
    norm += adj = stat.score + pos
    hash[stat] = [cur, cur += adj]
    hash
  end
  @stat_items = @count.times.inject([]) do |arr, i|
    r = rand(norm)
    arr << stats.detect { |stat| stat[1][0] <= r && r < stat[1][1]
}[0].items
  end
  srand 1234
end

it 'should return standard random prompt prime false' do
  prompts = Prompt.find(Prompt.fetch(@question.id, @voter_id, @count,
false).keys)
  @prompt_items.first(@count).each do |items|
    pids = items.map(&:id).sort
    (prompts.shift.items.map(&:id).sort | pids).sort.should == pids
  end
end

it 'should set rand algo id if prime false' do
  Prompt.find(Prompt.fetch(@question.id, @voter_id, @count,
false).keys).each do |prompt|
    prompt.prompt_algorithm_id.should == 2
  end
end

it 'should base prompts on stats if prime true and stats' do
  prompts = Prompt.find(Prompt.fetch(@question.id, @voter_id, @count,
true).keys)
  @stat_items.each do |items|
    pids = items.map(&:id).sort
    (prompts.shift.items.map(&:id) | pids).sort.should == pids
  end
end

it 'should set pop algo id if prime true and stats' do
  Prompt.find(Prompt.fetch(@question.id, @voter_id, @count,
true).keys).each do |prompt|
    prompt.prompt_algorithm_id.should == 3
  end
end

```

```

        end
      end
    end
  end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe Question do
  before(:each) do
    @valid_attributes = {
      :user_id => "1",
      :name => "1"
    }
  end

  it "should create a new instance given valid attributes" do
    Question.create!(@valid_attributes)
  end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe RankAlgorithm do
  before(:each) do
    @valid_attributes = {
      :name => "1",
      :data => "1"
    }
  end

  it "should create a new instance given valid attributes" do
    RankAlgorithm.create!(@valid_attributes)
  end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe Stat do
  fixtures :items, :rank_algorithms

  before(:each) do
    @valid_attributes = {
      :question_id => 1,
    }
  end

  it 'should create a new instance given valid attributes' do
    Stat.create!(@valid_attributes)
  end

  describe 'view' do
    fixtures :stats, :items_stats

    before do
      @ra = RankAlgorithm.find(Constants::Stat::DEFAULT_RANK_ALGO)
      @qid = 1
      @items = Item.all(:limit => 2)
    end
  end
end

```

```

    @stat = Stat.view(@qid, @items)
    @items |= @stat.items
end

describe 'if stat does not exist' do
  it 'should create a stat' do
    @stat.should_not == nil
  end

  it 'should create a stat with 0 votes' do
    @stat.votes.should == 0
  end

  it 'should create a stat with 1 view' do
    @stat.views.should == 1
  end

  it 'should create a stat for question' do
    @stat.question_id.should == @qid
  end

  it 'should create a stat for default rank algo' do
    @stat.rank_algorithm.should == @ra
  end

  it 'should create a stat with score based on default rank algo' do
    @stat.score.should == (-1 ** @ra.data.to_i).to_f
  end

  it 'should create a stat with items' do
    @stat.items.sort_by(&:id).should == @items.sort_by(&:id)
  end
end

describe 'if stat does exist' do
  before do
    @old_stat = @stat.dup
    @stat = Stat.view(@qid, @items)
  end

  it 'should return stat' do
    @stat.id.should == @old_stat.id
  end

  it 'should incr stat views' do
    @stat.views.should == @old_stat.views + 1
  end

  it 'should set views to >= votes' do
    (@stat.views >= @stat.votes).should == true
  end

  it 'should not increment votes' do
    @stat.votes.should == @old_stat.votes
  end
end

```



```

    it 'should update score' do
      n = 2 * @stat.votes - @stat.views
      @stat.score.should == ((n / n.abs) * (n.abs) ** @ra.data.to_i).to_f
    end
  end
end

describe 'vote' do

  fixtures :stats, :items_stats

  before do
    @ra = RankAlgorithm.find(Constants::Stat::DEFAULT_RANK_ALGO)
    @qid = 1
    @items = Item.all(:limit => 2)
    @stat = Stat.vote(@qid, @items)
    @items |= @stat.items
  end

  describe 'if stat does not exist' do
    it 'should create a stat' do
      @stat.should_not == nil
    end

    it 'should create a stat with one vote' do
      @stat.votes.should == 1
    end

    it 'should create a stat with one view' do
      @stat.views.should == 1
    end

    it 'should create a stat for question' do
      @stat.question_id.should == @qid
    end

    it 'should create a stat for default rank algo' do
      @stat.rank_algorithm.should == @ra
    end

    it 'should create a stat with score based on default rank algo' do
      @stat.score.should == 1 ** @ra.data.to_i
    end

    it 'should create a stat with items' do
      @stat.items.sort_by(&:id).should == @items.sort_by(&:id)
    end
  end

  describe 'if stat does exist' do
    before do
      @old_stat = @stat.dup
      @stat = Stat.vote(@qid, @items)
    end
  end
end

```

```

    it 'should return stat' do
      @stat.id.should == @old_stat.id
    end

    it 'should incr stat votes' do
      @stat.votes.should == @old_stat.votes + 1
    end

    it 'should set views to >= votes' do
      (@stat.views >= @stat.votes).should == true
    end

    it 'should update score' do
      @stat.score.should == (2*@stat.votes - @stat.views) ** @ra.data.to_i
    end

    it 'should have only one stat for pair of items' do
      @stat = Stat.vote(@qid, @items)
      old_lengths = @items.map { |item| item.stats.length }
      1.upto(10) do
        @stat = Stat.vote(@qid, @items)
      end
      for item in @items
        item.stats.length.should == old_lengths.shift
      end
    end
  end
end
end
end
# -*- coding: utf-8 -*-
require File.dirname(__FILE__) + '/../spec_helper'

# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead.
# Then, you can remove it from this and the functional test.
include AuthenticatedTestHelper

describe User do
  fixtures :users

  describe 'being created' do
    before do
      @user = nil
      @creating_user = lambda do
        @user = create_user
        violated "#{@user.errors.full_messages.to_sentence}" if
@user.new_record?
      end
    end

    it 'increments User#count' do
      @creating_user.should change(User, :count).by(1)
    end

    it 'initializes #activation_code' do

```

```

    @creating_user.call
    @user.reload
    @user.activation_code.should_not be_nil
  end

  it 'starts in pending state' do
    @creating_user.call
    @user.reload
    @user.should be_pending
  end
end

#
# Validations
#

it 'requires login' do
  lambda do
    u = create_user(:login => nil)
    u.errors.on(:login).should_not be_nil
    end.should_not change(User, :count)
  end

  describe 'allows legitimate logins:' do
    ['123', '1234567890_234567890_234567890_234567890',
     'hello.-_there@funnychar.com'].each do |login_str|
      it "'#{login_str}'" do
        lambda do
          u = create_user(:login => login_str)
          u.errors.on(:login).should be_nil
          end.should change(User, :count).by(1)
        end
      end
    end
  end

  describe 'disallows illegitimate logins:' do
    ['12', '1234567890_234567890_234567890_234567890_', "tab\t", "newline\n",
     "Iv\tv´rnvçtiv¥nv†lizv¶tiv¶¶n hasn't happened to ruby 1.8 yet",
     'semicolon;', 'quote"', 'tick\'', 'backtick`', 'percent%', 'plus+', 'space
'].each do |login_str|
      it "'#{login_str}'" do
        lambda do
          u = create_user(:login => login_str)
          u.errors.on(:login).should_not be_nil
          end.should_not change(User, :count)
        end
      end
    end
  end

  it 'requires password' do
    lambda do
      u = create_user(:password => nil)
      u.errors.on(:password).should_not be_nil
      end.should_not change(User, :count)
    end
  end
end

```

```

it 'requires password confirmation' do
  lambda do
    u = create_user(:password_confirmation => nil)
    u.errors.on(:password_confirmation).should_not be_nil
  end.should_not change(User, :count)
end

it 'requires email' do
  lambda do
    u = create_user(:email => nil)
    u.errors.on(:email).should_not be_nil
  end.should_not change(User, :count)
end

describe 'allows legitimate emails:' do
  ['foo@bar.com', 'foo@newschool-tld.museum', 'foo@twoletter-tld.de',
   'foo@nonexistent-tld.qq',
   'r@a.wk', '1234567890-234567890-234567890-234567890-234567890-234567890-234567890-234567890-234567890-234567890-gmail.com',
   'hello._there@funnychar.com', 'uucp%addr@gmail.com', 'hello+routing-str@gmail.com',
   'domain@can.haz.many.sub.doma.in', 'student.name@university.edu']
  .each do |email_str|
    it "'#{email_str}'" do
      lambda do
        u = create_user(:email => email_str)
        u.errors.on(:email).should be_nil
      end.should change(User, :count).by(1)
    end
  end
end

describe 'disallows illegitimate emails' do
  ['!!!@nobadchars.com', 'foo@no-rep-dots..com', 'foo@badtld.xxx',
   'foo@toolongtld.abcdefg',
   'Iv#tv~rn√ctiv¥n√tliz√ttiv[]n@hasnt.happened.to.email',
   'need.domain.and.tld@de', "tab\t", "newline\n",
   'r@a.wk', '1234567890-234567890-234567890-234567890-234567890-234567890-234567890-234567890-234567890-234567890-gmail2.com',
   # these are technically allowed but not seen in practice:
   'uucp!addr@gmail.com', 'semicolon;@gmail.com', 'quote"@gmail.com',
   'tick\'@gmail.com', 'backtick`@gmail.com', 'space @gmail.com',
   'bracket<@gmail.com', 'bracket>@gmail.com']
  .each do |email_str|
    it "'#{email_str}'" do
      lambda do
        u = create_user(:email => email_str)
        u.errors.on(:email).should_not be_nil
      end.should_not change(User, :count)
    end
  end
end

describe 'allows legitimate names:' do
  ['Andre The Giant (7\'4", 520 lb.) -- has a posse',

```

```

    '',
    '1234567890_234567890_234567890_234567890_234567890_234567890_234567890_23456789
0_234567890_234567890',
    ].each do |name_str|
      it "'#{name_str}'" do
        lambda do
          u = create_user(:name => name_str)
          u.errors.on(:name).should be_nil
          end.should change(User, :count).by(1)
        end
      end
    end
  describe "disallows illegitimate names" do
    ["tab\t", "newline\n",

'1234567890_234567890_234567890_234567890_234567890_234567890_234567890_23456789
0_234567890_234567890_',
    ].each do |name_str|
      it "'#{name_str}'" do
        lambda do
          u = create_user(:name => name_str)
          u.errors.on(:name).should_not be_nil
          end.should_not change(User, :count)
        end
      end
    end
  end

  it 'resets password' do
    users(:quentin).update_attributes(:password => 'new password',
:password_confirmation => 'new password')
    User.authenticate('quentin', 'new password').should == users(:quentin)
  end

  it 'does not rehash password' do
    users(:quentin).update_attributes(:login => 'quentin2')
    User.authenticate('quentin2', 'monkey').should == users(:quentin)
  end

  #
  # Authentication
  #

  it 'authenticates user' do
    User.authenticate('quentin', 'monkey').should == users(:quentin)
  end

  it "doesn't authenticate user with bad password" do
    User.authenticate('quentin', 'invalid_password').should be_nil
  end

  if REST_AUTH_SITE_KEY.blank?
    # old-school passwords
    it "authenticates a user against a hard-coded old-style password" do
      User.authenticate('old_password_holder', 'test').should ==
users(:old_password_holder)
    end
  end

```

```

    end
  else
    it "doesn't authenticate a user against a hard-coded old-style password" do
      User.authenticate('old_password_holder', 'test').should be_nil
    end

    # New installs should bump this up and set REST_AUTH_DIGEST_STRETCHES to give
    a 10ms encrypt time or so
    desired_encryption_expensiveness_ms = 0.1
    it "takes longer than #{desired_encryption_expensiveness_ms}ms to encrypt a
    password" do
      test_reps = 100
      start_time = Time.now; test_reps.times{ User.authenticate('quentin',
      'monkey'+rand.to_s) }; end_time = Time.now
      auth_time_ms = 1000 * (end_time - start_time)/test_reps
      auth_time_ms.should > desired_encryption_expensiveness_ms
    end
  end

  #
  # Authentication
  #

  it 'sets remember token' do
    users(:quentin).remember_me
    users(:quentin).remember_token.should_not be_nil
    users(:quentin).remember_token_expires_at.should_not be_nil
  end

  it 'unsets remember token' do
    users(:quentin).remember_me
    users(:quentin).remember_token.should_not be_nil
    users(:quentin).forget_me
    users(:quentin).remember_token.should be_nil
  end

  it 'remembers me for one week' do
    before = 1.week.from_now.utc
    users(:quentin).remember_me_for 1.week
    after = 1.week.from_now.utc
    users(:quentin).remember_token.should_not be_nil
    users(:quentin).remember_token_expires_at.should_not be_nil
    users(:quentin).remember_token_expires_at.between?(before, after).should
    be_true
  end

  it 'remembers me until one week' do
    time = 1.week.from_now.utc
    users(:quentin).remember_me_until time
    users(:quentin).remember_token.should_not be_nil
    users(:quentin).remember_token_expires_at.should_not be_nil
    users(:quentin).remember_token_expires_at.should == time
  end

  it 'remembers me default two weeks' do

```

```

    before = 2.weeks.from_now.utc
    users(:quentin).remember_me
    after = 2.weeks.from_now.utc
    users(:quentin).remember_token.should_not be_nil
    users(:quentin).remember_token_expires_at.should_not be_nil
    users(:quentin).remember_token_expires_at.between?(before, after).should
be_true
  end

  it 'registers passive user' do
    user = create_user(:password => nil, :password_confirmation => nil)
    user.should be_passive
    user.update_attributes(:password => 'new password', :password_confirmation
=> 'new password')
    user.register!
    user.should be_pending
  end

  it 'suspends user' do
    users(:quentin).suspend!
    users(:quentin).should be_suspended
  end

  it 'does not authenticate suspended user' do
    users(:quentin).suspend!
    User.authenticate('quentin', 'monkey').should_not == users(:quentin)
  end

  it 'deletes user' do
    users(:quentin).deleted_at.should be_nil
    users(:quentin).delete!
    users(:quentin).deleted_at.should_not be_nil
    users(:quentin).should be_deleted
  end

  describe "being unsuspended" do
    fixtures :users

    before do
      @user = users(:quentin)
      @user.suspend!
    end

    it 'reverts to active state' do
      @user.unsuspend!
      @user.should be_active
    end

    it 'reverts to passive state if activation_code and activated_at are nil' do
      User.update_all :activation_code => nil, :activated_at => nil
      @user.reload.unsuspend!
      @user.should be_passive
    end
  end

```

```

    it 'reverts to pending state if activation_code is set and activated_at is
nil' do
      User.update_all :activation_code => 'foo-bar', :activated_at => nil
      @user.reload.unsuspend!
      @user.should be_pending
    end
  end

  describe 'destroy data' do
    fixtures :users, :items, :questions, :items_questions, :rank_algorithms,
:voters, :features, :prompt_requests, :prompts, :stats, :items_stats

    before do
      @user = User.find(1)
      @voters = @user.voters
      @items = @user.items
      @questions = @user.questions
      @features = @voters.map(&:features).flatten
      @prompt_requests = @questions.map(&:prompt_requests).flatten |
@items.map(&:prompt_requests).flatten
      @stats = @items.map(&:stats).flatten
      @iqs = @questions.map(&:items_questions).flatten |
@items.map(&:items_questions).flatten
      @prompts = @items.map(&:prompts).flatten
      @votes = @items.map(&:votes).flatten | @prompts.map(&:vote).flatten
      @user.destroy_data
    end

    # it 'should delete voters' do
    #   Voter.all(:conditions => { :id => @voters.map(&:id) }).empty?.should ==
true
    #   @user.reload.voters.empty?.should == true
    # end

    it 'should delete items' do
      Item.all(:conditions => { :id => @items.map(&:id) }).empty?.should == true
      @user.reload.items.empty?.should == true
    end

    it 'should delete questions' do
      Question.all(:conditions => { :id => @questions.map(&:id) }).empty?.should
== true
      @user.reload.questions.empty?.should == true
    end

    # it 'should delete features' do
    #   Feature.all(:conditions => { :id => @features.map(&:id) }).empty?.should
== true
    # end

    it 'should delete prompt_requests' do
      PromptRequest.all(:conditions => { :id => @prompt_requests.map(&:id)
}).empty?.should == true
    end
  end

```



```

    it 'should delete items questions' do
      ItemsQuestion.all(:conditions => { :id => @iqs.map(&:id) }).empty?.should
== true
    end

    it 'should delete votes' do
      Vote.all(:conditions => { :id => @votes.map(&:id) }).empty?.should == true
    end

    it 'should delete prompts' do
      Prompt.all(:conditions => { :id => @prompts.map(&:id) }).empty?.should ==
true
    end
  end
end

protected
def create_user(options = {})
  record = User.new({ :login => 'quire', :email => 'quire@example.com',
:password => 'quire69', :password_confirmation => 'quire69' }.merge(options))
  record.register! if record.valid?
  record
end
end
require File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe Vote do
  before(:each) do
    @valid_attributes = {
      :prompt_id => 1,
      :voter_id => 1
    }
  end

  it "should create a new instance given valid attributes" do
    Vote.create!(@valid_attributes)
  end
endrequire File.expand_path(File.dirname(__FILE__) + '/../spec_helper')

describe Voter do
  before(:each) do
    @valid_attributes = {
      :user_id => 1
    }
  end

  it "should create a new instance given valid attributes" do
    Voter.create!(@valid_attributes)
  end
end
# This file is copied to ~/spec when you run 'ruby script/generate rspec'
# from the project root directory.
ENV["RAILS_ENV"] = "test"
require File.expand_path(File.dirname(__FILE__) + "../config/environment")
require 'spec'
require 'spec/rails'

```

```

include AuthenticatedTestHelper
include AuthenticatedSystem

Spec::Runner.configure do |config|
  # If you're not using ActiveRecord you should remove these
  # lines, delete config/database.yml and disable :active_record
  # in your config/boot.rb
  config.use_transactional_fixtures = false
  config.use_instantiated_fixtures = false
  config.fixture_path = RAILS_ROOT + '/spec/fixtures/'

  # == Fixtures
  #
  # You can declare fixtures for each example_group like this:
  #   describe "...." do
  #     fixtures :table_a, :table_b
  #
  # Alternatively, if you prefer to declare them only once, you can
  # do so right here. Just uncomment the next line and replace the fixture
  # names with your fixtures.
  #
  # config.global_fixtures = :table_a, :table_b
  #
  # If you declare global fixtures, be aware that they will be declared
  # for all of your examples, even those that don't use them.
  #
  # You can also declare which fixtures to use (for example fixtures for
test/fixtures):
  #
  # config.fixture_path = RAILS_ROOT + '/spec/fixtures/'
  #
  # == Mock Framework
  #
  # RSpec uses it's own mocking framework by default. If you prefer to
  # use mocha, flexmock or RR, uncomment the appropriate line:
  #
  # config.mock_with :mocha
  # config.mock_with :flexmock
  # config.mock_with :rr
  #
  # == Notes
  #
  # For more information take a look at Spec::Example::Configuration and
Spec::Runner
end

def xml_post(to, file, params = {})
  request.env['RAW_POST_DATA'] =
File.read("#{RAILS_ROOT}/spec/fixtures/xml/#{file}.xml")
  post to, params.merge(:content_type => 'application/xml')
end
dir = File.dirname(__FILE__)
Dir[File.expand_path("#{dir}/**/*.rb")].uniq.each do |file|
  require file
end
ENV["RAILS_ENV"] = "test"

```

```

require File.expand_path(File.dirname(__FILE__) + "../config/environment")
require 'spec/rails/story_adapter'#!/usr/bin/env ruby
ENV["RAILS_ENV"] = "test"
require File.expand_path(File.dirname(__FILE__) + "../config/environment")
require 'spec/rails/story_adapter'
require 'spec/story'
require File.expand_path(File.dirname(__FILE__) +
"/rest_auth_stories_helper.rb")

# Make visible for testing
ApplicationController.send(:public, :logged_in?, :current_user, :authorized?)

this_dir = File.dirname(__FILE__)
Dir[File.join(this_dir, "steps/*.rb")].each do |file|
  puts file.to_s
  require file
end

with_steps_for :ra_navigation, :ra_response, :ra_resource, :user do
  story_files = Dir[File.join(this_dir, "users", '*.story')]
  story_files.each do |file|
    run file, :type => RailsStory
  end
end

# If you have a global stories helper, move this line there:
include AuthenticatedTestHelper

# Most of the below came out of code from Ben Mabey
# http://www.benmabey.com/2008/02/04/rspec-plain-text-stories-webrat-chunky-
bacon/

# These allow exceptions to come through as opposed to being caught and having
non-helpful responses returned.
ActionController::Base.class_eval do
  def perform_action
    perform_action_without_rescue
  end
end

Dispatcher.class_eval do
  def self.failsafe_response(output, status, exception = nil)
    raise exception
  end
end

#
# Sugar for turning a story's attribute list into list, array, etc.
#
module ToFooFromStory
  def ToFooFromStory.fix_key key
    key.downcase.gsub(/\s+/, '_')
  end
  def ToFooFromStory.fix_value value
    return '' if !value
    value.strip!
  end
  case

```

```

    when value =~ /^'(.*)'$/      then value = $1
    when value =~ /^"(.)"$/      then value = $1
    when value == 'nil!'         then value = nil
    when value == 'non-nil!'     then value = be_nil
    when value =~ /^#\{(.*)\}$/  then value = eval($1)
  end
  value
end
# Converts a key: value list found in the steps into a hash.
# Example:
#   ISBN: '0967539854' and comment: 'I love this book' and Quality rating: '4'
#   # => {"quality_rating"=>"4", "isbn"=>"0967539854", "comment"=>"I love this
book"}
def to_hash_from_story
  hsh = self.split(/,? and |, /).inject({}) do |hash_so_far, key_value|
    key, value = key_value.split(":")
    if !value then warn "Couldn't understand story '#{self}': only understood
up to the part '#{hash_so_far.to_yaml}'" end
    hash_so_far.merge(ToFooFromStory::fix_key(key) =>
ToFooFromStory::fix_value(value))
  end
end
# Coverts an attribute list found in the steps into an array
# Example:
#   login, email, updated_at, and gravatar
#   # => ['login', 'email', 'updated_at', 'gravatar']
def to_array_from_story
  self.split(/,? and |, /).map do |value|
    ToFooFromStory::fix_value(value)
  end
end
end
class String
  include ToFooFromStory
end

def instantize(string)
  instance_variable_get("@#{string}")
end

#
# Spew response onto screen -- painful but scrolling >> debugger
#
def dump_response
  # note that @request and @template won't to_yaml and that @session includes
@cgi
  response_methods = response.instance_variables - ['@request',
'@template', '@cgi']
  request_methods = response.request.instance_variables -
['@session_options_with_string_keys', '@cgi', '@session']
  response_methods.map!{|attr| attr.gsub(/^@/, '')}.sort!
  request_methods.map!{|attr| attr.gsub(/^@/, '')}.sort!
  puts '', '*' * 75,
    response.instance_values.slice(*response_methods).to_yaml,
    "*" * 75, ''

```

```

        response.request.instance_values.slice(*request_methods).to_yaml,
        "*" * 75, ''
end
#
# Where to go
#
steps_for(:ra_navigation) do
  #
  # GET
  # Go to a given page.
  When "$actor goes to $path" do |actor, path|
    case path
    when 'the home page' then get '/'
    else
      get path
    end
  end
end

# POST -- Ex:
#   When she creates a book with ISBN: '0967539854' and comment: 'I love this
book' and rating: '4'
#   When she creates a singular session with login: 'reggie' and password:
'i_haxxor_joo'
# Since I'm not smrt enough to do it right, explicitly specify singular
resources
  When %r{$actor creates an? $resource with $attributes} do |actor, resource,
attributes|
    attributes = attributes.to_hash_from_story
    if resource =~ %r{singular ([\w/]+)}
      resource = $1.downcase.singularize
      post "#{resource}", attributes
    else
      post "#{resource.downcase.pluralize}", { resource.downcase.singularize =>
attributes }
    end
  end
end

# PUT
  When %r{$actor asks to update '$resource' with $attributes} do |_, resource,
attributes|
    attributes = attributes.to_hash_from_story
    put "#{resource}", attributes
    dump_response
  end

# DELETE -- Slap together the POST-form-as-fake-HTTP-DELETE submission
  When %r{$actor asks to delete '$resource'} do |_, resource|
    post "#{resource.downcase.pluralize}", { :_method => :delete }
    dump_response
  end

# Redirect --
#   Rather than coding in get/get_via_redirect's and post/p_v_r's,
#   let's just demand that in the story itself.
  When "$actor follows that redirect!" do |actor|

```

```

    follow_redirect!
  end
end
# The flexible code for resource testing came out of code from Ben Mabey
# http://www.benmabey.com/2008/02/04/rspec-plain-text-stories-webrat-chunky-
bacon/
steps_for(:ra_resource) do
  #
  # Construct resources
  #

  #
  # Build a resource as described, store it as an @instance variable. Ex:
  #   "Given a user with login: 'mojojojo'"
  # produces a User instance stored in @user with 'mojojojo' as its login
  # attribute.
  #
  Given "a $resource instance with $attributes" do |resource, attributes|
    klass, instance, attributes = parse_resource_args resource, attributes
    instance = klass.new(attributes)
    instance.save!
    find_resource(resource, attributes).should_not be_nil
    keep_instance! resource, instance
  end

  #
  # Stuff attributes into a preexisting @resource
  #   "And the user has thac0: 3"
  # takes the earlier-defined @user instance and sets its thac0 to '3'.
  #
  Given "the $resource has $attributes" do |resource, attributes|
    klass, instance, attributes = parse_resource_args resource, attributes
    attributes.each do |attr, val|
      instance.send("#{attr}=", val)
    end
    instance.save!
    find_resource(resource, attributes).should_not be_nil
    keep_instance! resource, instance
  end

  #
  # Destroy all for this resource
  #
  Given "no $resource with $attr: '$val' exists" do |resource, attr, val|
    klass, instance = parse_resource_args resource
    klass.destroy_all(attr.to_sym => val)
    instance = find_resource resource, attr.to_sym => val
    instance.should be_nil
    keep_instance! resource, instance
  end

  #
  # Then's for resources
  #

```

```

# Resource like this DOES exist
Then %r{an? $resource with $attributes should exist} do |resource, attributes|
  instance = find_resource resource, attributes
  instance.should_not be_nil
  keep_instance! resource, instance
end
# Resource like this DOES NOT exist
Then %r{no $resource with $attributes should exist} do |resource, attributes|
  instance = find_resource resource, attributes
  instance.should be_nil
end

# Resource has attributes with given values
Then "the $resource should have $attributes" do |resource, attributes|
  klass, instance, attributes = parse_resource_args resource, attributes
  attributes.each do |attr, val|
    instance.send(attr).should == val
  end
end
# Resource attributes should / should not be nil
Then "the $resource's $attr should be nil" do |resource, attr|
  klass, instance = parse_resource_args resource
  instance.send(attr).should be_nil
end
Then "the $resource's $attr should not be nil" do |resource, attr|
  klass, instance = parse_resource_args resource
  instance.send(attr).should_not be_nil
end

#
# Bank each of the @resource's listed attributes for later.
#
Given "we try hard to remember the $resource's $attributes" do |resource,
attributes|
  attributes = attributes.to_array_from_story
  attributes.each do |attr|
    memorize_resource_value resource, attr
  end
end
#
# Bank each of the @resource's listed attributes for later.
#
Given "we don't remember anything about the past" do
  memorize_forget_all!
end

#
# Compare @resource.attr to its earlier-memorized value.
# Specify ' using method_name' (abs, to_s, &c) to coerce before comparing.
# For important and mysterious reasons, timestamps want to_i or to_s.
#
Then %r{the $resource\'s $attribute should stay the same(?: under $func)?} do
|resource, attr, func|
  klass, instance = parse_resource_args resource
  # Get the values

```

```

    old_value = recall_resource_value(resource, attr)
    new_value = instance.send(attr)
    # Transform each value, maybe, using value.func
    if func then new_value = new_value.send(func); old_value =
old_value.send(func) end
    # Compare
    old_value.should eql(new_value)
end

#
# Look for each for the given attributes in the page's text
#
Then "page should have the $resource's $attributes" do |resource, attributes|
  actual_resource = instantize(resource)
  attributes.split(/, and |, /).each do |attribute|
    response.should have_text(/#{actual_resource.send(attribute.strip.gsub("
", "_"))}/)
  end
end

end

#
# Turn a resource name and a to_hash_from_story string like
# "attr: 'value', attr2: 'value2', ... , and attrN: 'valueN'"
# into
# * klass      -- the class matching that Resource
# * instance   -- the possibly-preexisting local instance value @resource
# * attributes -- a hash matching the given attribute-list string
#
def parse_resource_args resource, attributes=nil
  instance = instantize resource
  klass = resource.classify.constantize
  attributes = attributes.to_hash_from_story if attributes
  [klass, instance, attributes]
end

#
# Given a class name 'resource' and a hash of conditsion, find a model
#
def find_resource resource, conditions
  klass, instance = parse_resource_args resource
  conditions = conditions.to_hash_from_story unless (conditions.is_a? Hash)
  klass.find(:first, :conditions => conditions)
end

#
# Simple, brittle, useful: store the given resource's attribute
# so we can compare it later.
#
def memorize_resource_value resource, attr
  klass, instance = parse_resource_args resource
  value = instance.send(attr)
  @_memorized ||= {}
  @_memorized[resource] ||= {}
end

```



```

    @_memorized[resource][attr] = value
  value
end
def recall_resource_value resource, attr
  @_memorized[resource][attr]
end
def memorize_forget_all!
  @_memorized = {}
end

#
# Keep the object around in a local instance variable @resource.
#
# So, for instance,
#   klass, instance = parse_resource_args 'user'
#   instance = klass.new({login => 'me', password => 'monkey', ...})
#   keep_instance! resource, instance
# keeps the just-constructed User model in the @user instance variable.
#
def keep_instance! resource, object
  instance_variable_set("@#{resource}", object)
end
#
# What you should see when you get there
#

steps_for(:ra_response) do
  #
  # Destinations. Ex:
  #   She should be at the new kids page
  #   Tarkin should be at the destroy alderaan page
  #   The visitor should be at the '/lolcats/download' form
  #   The visitor should be redirected to '/hi/mom'
  #
  # It doesn't know anything about actual routes -- it just
  # feeds its output to render_template or redirect_to
  #
  Then "$factor should be at $path" do |_, path|
    response.should render_template(grok_path(path))
  end

  Then "$factor should be redirected to $path" do |_, path|
    response.should redirect_to(grok_path(path))
  end

  Then "the page should look AWESOME" do
    response.should have_tag('head>title')
    response.should have_tag('h1')
    # response.should be_valid_xhtml
  end

  #
  # Tags
  #

```

```

Then "the page should contain '$text'" do |_, text|
  response.should have_text(/#{text}/)
end

# please note: this enforces the use of a <label> field
Then "$factor should see a <$container> containing a $attributes" do |_,
container, attributes|
  attributes = attributes.to_hash_from_story
  response.should have_tag(container) do
    attributes.each do |tag, label|
      case tag
      when "textfield" then with_tag "input[type='text']";
with_tag("label", label)
      when "password" then with_tag "input[type='password']";
with_tag("label", label)
      when "submit" then with_tag "input[type='submit'][value='#{label}']"
      else with_tag tag, label
      end
    end
  end
end

#
# Session, cookie variables
#
Then "$factor $token cookie should include $attrlist" do |_, token, attrlist|
  attrlist = attrlist.to_array_from_story
  cookies.include?(token).should be_true
  attrlist.each do |val|
    cookies[token].include?(val).should be_true
  end
end

Then "$factor $token cookie should exist but not include $attrlist" do |_,
token, attrlist|
  attrlist = attrlist.to_array_from_story
  cookies.include?(token).should be_true
  puts [cookies, attrlist, token].to_yaml
  attrlist.each do |val|
    cookies[token].include?(val).should_not be_true
  end
end

Then "$factor should have $an $token cookie" do |_, _, token|
  cookies[token].should_not be_blank
end

Then "$factor should not have $an $token cookie" do |_, _, token|
  cookies[token].should be_blank
end

Given "$factor has $an cookie jar with $attributes" do |_, _, attributes|
  attributes = attributes.to_hash_from_story
  attributes.each do |attr, val|
    cookies[attr] = val
  end
end

```

```

end
Given "$factor session store has no $attrlist" do |_, attrlist|
  attrlist = attrlist.to_array_from_story
  attrlist.each do |attr|
    # Note that the comparison passes through 'to_s'
    session[attr.to_sym] = nil
  end
end

Then "$factor session store should have $attributes" do |_, attributes|
  attributes = attributes.to_hash_from_story
  attributes.each do |attr, val|
    # Note that the comparison passes through 'to_s'
    session[attr.to_sym].to_s.should eql(val)
  end
end

Then "$factor session store should not have $attrlist" do |_, attrlist|
  attrlist = attrlist.to_array_from_story
  attrlist.each do |attr|
    session[attr.to_sym].blank?.should be_true
  end
end

#
# Flash messages
#

Then "$factor should see $an $notice message '$message'" do |_, _, notice,
message|
  response.should have_flash(notice, %r{#{message}})
end

Then "$factor should not see $an $notice message '$message'" do |_, _, notice,
message|
  response.should_not have_flash(notice, %r{#{message}})
end

Then "$factor should see no messages" do |_|
  ['error', 'warning', 'notice'].each do |notice|
    response.should_not have_flash(notice)
  end
end

RE_POLITENESS = /(?:please|sorry|thank(?:s| you))/i
Then %r{we should be polite about it} do
  response.should have_tag("div.error,div.notice", RE_POLITENESS)
end
Then %r{we should not even be polite about it} do
  response.should_not have_tag("div.error,div.notice", RE_POLITENESS)
end

#
# Resource's attributes
#

```

```

# "Then page should have the $resource's $attributes" is in resource_steps

# helpful debug step
Then "we dump the response" do
  dump_response
end
end

def have_flash notice, *args
  have_tag("div.#{notice}", *args)
end

RE_PRETTY_RESOURCE = /the (index|show|new|create|edit|update|destroy) (\w+)
(page|form)/i
RE_THE_FOO_PAGE     = /the '?(['"]*)'? (page|form)/i
RE_QUOTED_PATH      = /^(['"]*)$/i
def grok_path path
  path.gsub(/\s+again$/, '') # strip trailing ' again'
  case
  when path == 'the home page' then dest = '/'
  when path =~ RE_PRETTY_RESOURCE then dest = template_for $1, $2
  when path =~ RE_THE_FOO_PAGE then dest = $1
  when path =~ RE_QUOTED_PATH then dest = $1
  else dest = path
  end
  dest
end

# turns 'new', 'road bikes' into 'road_bikes/new'
# note that it's "action resource"
def template_for(action, resource)
  "#{resource.gsub(" ", "_")}/#{action}"
end

require File.dirname(__FILE__) + '/../helper'

RE_User = %r{(?:the )? *(\w+ )? *}
RE_User_TYPE = %r{(?: *(\w+)? )? *}
steps_for(:user) do

  #
  # Setting
  #

  Given "an anonymous user" do
    log_out!
  end

  Given "$an $user_type user with $attributes" do |_, user_type, attributes|
    create_user! user_type, attributes.to_hash_from_story
  end

  Given "$an $user_type user named '$login'" do |_, user_type, login|
    create_user! user_type, named_user(login)
  end
end

```

```

end

Given "$an $user_type user logged in as '$login'" do |_, user_type, login|
  create_user! user_type, named_user(login)
  log_in_user!
end

Given "$actor is logged in" do |_, login|
  log_in_user! @user_params || named_user(login)
end

Given "there is no $user_type user named '$login'" do |_, login|
  @user = User.find_by_login(login)
  @user.destroy! if @user
  @user.should be_nil
end

#
# Actions
#
When "$actor logs out" do
  log_out
end

When "$actor registers an account as the preloaded '$login'" do |_, login|
  user = named_user(login)
  user['password_confirmation'] = user['password']
  create_user user
end

When "$actor registers an account with $attributes" do |_, attributes|
  create_user attributes.to_hash_from_story
end

When "$actor activates with activation code $attributes" do |_,
activation_code|
  activation_code = '' if activation_code == 'that is blank'
  activate
end

When "$actor logs in with $attributes" do |_, attributes|
  log_in_user attributes.to_hash_from_story
end

#
# Result
#
Then "$actor should be invited to sign in" do |_|
  response.should render_template('/sessions/new')
end

Then "$actor should not be logged in" do |_|
  controller.logged_in?.should_not be_true
end

```

```

    Then "$login should be logged in" do |login|
      controller.logged_in?.should be_true
      controller.current_user.should === @user
      controller.current_user.login.should == login
    end

  end

  def named_user login
    user_params = {
      'admin' => {'id' => 1, 'login' => 'addie', 'password' => '1234addie',
        'email' => 'admin@example.com', },
      'oona' => { 'login' => 'oona', 'password' => '1234oona',
        'email' => 'unactivated@example.com'},
      'reggie' => { 'login' => 'reggie', 'password' => 'monkey',
        'email' => 'registered@example.com' },
    }
    user_params[login.downcase]
  end

  #
  # User account actions.
  #
  # The ! methods are 'just get the job done'. It's true, they do some testing of
  # their own -- thus un-DRY'ing tests that do and should live in the user account
  # stories -- but the repetition is ultimately important so that a faulty test
  # setup
  # fails early.
  #

  def log_out
    get '/sessions/destroy'
  end

  def log_out!
    log_out
    response.should redirect_to('/')
    follow_redirect!
  end

  def create_user(user_params={})
    @user_params ||= user_params
    post "/users", :user => user_params
    @user = User.find_by_login(user_params['login'])
  end

  def create_user!(user_type, user_params)
    user_params['password_confirmation'] ||= user_params['password'] || =
    user_params['password']
    create_user user_params
    response.should redirect_to('/')
    follow_redirect!

    # fix the user's activation status
    activate_user! if user_type == 'activated'
  end

```

```
end
```

```
def activate_user activation_code=nil
  activation_code = @user.activation_code if activation_code.nil?
  get "/activate/#{activation_code}"
end
```

```
def activate_user! *args
  activate_user *args
  response.should redirect_to('/login')
  follow_redirect!
  response.should have_flash("notice", /Signup complete!/)
end
```

```
def log_in_user user_params=nil
  @user_params ||= user_params
  user_params ||= @user_params
  post "/session", user_params
  @user = User.find_by_login(user_params['login'])
  controller.current_user
end
```

```
def log_in_user! *args
  log_in_user *args
  response.should redirect_to('/')
  follow_redirect!
  response.should have_flash("notice", /Logged in successfully/)
end
```

```
ENV["RAILS_ENV"] = "test"
require File.expand_path(File.dirname(__FILE__) + "../config/environment")
require 'test_help'
```

```
class Test::Unit::TestCase
  # Transactional fixtures accelerate your tests by wrapping each test method
  # in a transaction that's rolled back on completion. This ensures that the
  # test database remains unchanged so your fixtures don't have to be reloaded
  # between every test method. Fewer database queries means faster tests.
  #
  # Read Mike Clark's excellent walkthrough at
  # http://clarkware.com/cgi/blosxom/2005/10/24#Rails10FastTesting
  #
  # Every Active Record database supports transactions except MyISAM tables
  # in MySQL. Turn off transactional fixtures in this case; however, if you
  # don't care one way or the other, switching from MyISAM to InnoDB tables
  # is recommended.
  #
  # The only drawback to using transactional fixtures is when you actually
  # need to test transactions. Since your test is bracketed by a transaction,
  # any transactions started in your code will be automatically rolled back.
  self.use_transactional_fixtures = true

  # Instantiated fixtures are slow, but give you @david where otherwise you
  # would need people(:david). If you don't want to migrate your existing
  # test cases which use the @david style and don't mind the speed hit (each
```

```

# instantiated fixtures translates to a database query per test method),
# then set this back to true.
self.use_instantiated_fixtures = false

# Setup all fixtures in test/fixtures/*. (yaml|csv) for all tests in
alphabetical order.
#
# Note: You'll currently still have to declare fixtures explicitly in
integration tests
# -- they do not yet inherit this setting
fixtures :all

# Add more helper methods to be used by all tests here...
end
require 'test_helper'

class SystemNotifierTest < ActionMailer::TestCase
  # replace this with your real tests
  test "the truth" do
    assert true
  end
end
require_dependency 'smtp_tls'
require "openssl"
require "net/smtp"

Net::SMTP.class_eval do
  private
  def do_start(helodomain, user, secret, authtype)
    raise IOError, 'SMTP session already started' if @started
    check_auth_args user, secret, authtype if user or secret

    sock = timeout(@open_timeout) { TCPSocket.open(@address, @port) }
    @socket = Net::InternetMessageIO.new(sock)
    @socket.read_timeout = 60 #@read_timeout

    check_response(critical { recv_response() })
    do_helo(helodomain)

    if starttls
      raise 'openssl library not installed' unless defined?(OpenSSL)
      ssl = OpenSSL::SSL::SSLSocket.new(sock)
      ssl.sync_close = true
      ssl.connect
      @socket = Net::InternetMessageIO.new(ssl)
      @socket.read_timeout = 60 #@read_timeout
      do_helo(helodomain)
    end

    authenticate user, secret, authtype if user
    @started = true
  end
  ensure
    unless @started
      # authentication failed, cancel connection.
      @socket.close if not @started and @socket and not @socket.closed?
    end
  end
end

```



```

        @socket = nil
    end
end

def do_helo(helodomain)
  begin
    if @esmtplib
      ehlo helodomain
    else
      helo helodomain
    end
  rescue Net::ProtocolError
    if @esmtplib
      @esmtplib = false
      @error_occured = false
      retry
    end
    raise
  end
end

def starttls
  getok('STARTTLS') rescue return false
  return true
end

def quit
  begin
    getok('QUIT')
  rescue EOFError
  end
end

end#
# For Rails 2.x:
#   A copy of this file should be placed in RAILS_ROOT/initializers/
#   A file named mailer.yml should be placed in RAILS_ROOT/config/
#   See mailer.yml.sample
#

require "smtp_tls"

mailer_config = File.open("#{RAILS_ROOT}/config/mailer.yml")
mailer_options = YAML.load(mailer_config)
ActionMailer::Base.smtp_settings = mailer_options
begin
  require File.join(File.dirname(__FILE__), 'lib', 'haml') # From here
rescue LoadError
  require 'haml' # From gem
end

# Load Haml and Sass
Haml.init_rails(binding)
#!/usr/bin/env ruby

require 'benchmark'

```

```

require File.dirname(__FILE__) + "../lib/oink.rb"

Benchmark.bmbm(15) do |x|
  x.report("Running Oink") {
    f = File.open(File.expand_path(File.dirname(__FILE__) +
    "../logs/production.log"))
    Oink::MemoryUsageReporter.new([f], 75*1024).print(STDOUT)
    f.close
  }
end

require 'activerecord'

ActiveRecord::Base.establish_connection(
  :adapter => 'sqlite3',
  :dbfile => ':memory:'
)ActiveRecord::Schema.define(:version => 1) do

  create_table "pigs", :force => true do |t|
    t.integer "pen_id"
    t.string "name"
    t.boolean "smells"
  end

  create_table "pens", :force => true do |t|
    t.string "location"
  end

endrequire "oink/rails/memory_usage_logger"
require "oink/rails/instance_type_counter"#!/usr/bin/env ruby
require 'ftools'

template_executable_file = File.join("application_files", "script", "oink")
executable_file =
File.expand_path("#{File.dirname(__FILE__)}/../../../script/oink")

File.copy template_executable_file, executable_file
File.chmod 0755, executable_file
require "date"
require "oink/base"
require "oink/oinked_request/oinked_ar_request"
require "oink/priority_queue"

module Oink

  class ActiveRecordInstantiationReporter < Base

    def print(output)
      output.puts "---- OINK FOR ACTIVERECORD ----"
      output.puts "THRESHOLD: #{@threshold} Active Record objects per request\n"

      output.puts "\n-- REQUESTS --\n" if @format == :verbose

      @inputs.each do |input|

```

```

input.each_line do |line|
  line = line.strip

  if line =~ /rails\[([0-9])\]/
    pid = $1
    @pids[pid] ||= { :buffer => [], :ar_count => -1, :action => "",
:request_finished => true }
    @pids[pid][:buffer] << line
  end

  if line =~ /Processing ([0-9])#([0-9]) /

    @pids[pid][:action] = $1
    unless @pids[pid][:request_finished]
      @pids[pid][:buffer] = [line]
    end
    @pids[pid][:request_finished] = false

  elsif line =~ /Instantiation Breakdown: Total: ([0-9])/

    @pids[pid][:ar_count] = $1.to_i

  elsif line =~ /Completed in/

    if @pids[pid][:ar_count] > @threshold
      @bad_actions[@pids[pid][:action]] ||= 0
      @bad_actions[@pids[pid][:action]] =
@bad_actions[@pids[pid][:action]] + 1
      date = /^( [0-9] [0-9]:[0-9]:[0-9])/.match(line).captures[0]
      @bad_requests.push(OinkedARRequest.new(@pids[pid][:action], date,
@pids[pid][:buffer], @pids[pid][:ar_count]))
      if @format == :verbose
        @pids[pid][:buffer].each { |b| output.puts b }
        output.puts "-----"
      end
    end

    @pids[pid][:request_finished] = true
    @pids[pid][:buffer] = []
    @pids[pid][:ar_count] = -1

  end # end elsif
end # end each_line
end # end each input

print_summary(output)

end

end

endmodule Oink

class Base

```

```

VERSION = '0.1.0'
FORMATS = %w[verbose short-summary summary]
FORMAT_ALIASES = { "v" => "verbose", "ss" => "short-summary", "s" =>
"summary" }

def initialize(input, threshold, options = {})
  @inputs = Array(input)
  @threshold = threshold
  @format = options[:format] || :short_summary

  @pids = {}
  @bad_actions = {}
  @bad_requests = PriorityQueue.new(10)
end

protected

def print_summary(output)
  output.puts "\n-- SUMMARY --\n"
  output.puts "Worst Requests:"
  @bad_requests.each_with_index do |offender, index|
    output.puts "#{index + 1}. #{offender.datetime},
#{offender.display_oink_number}, #{offender.action}"
    if @format == :summary
      offender.log_lines.each { |b| output.puts b }
      output.puts "-----"
    end
  end
  output.puts "\nWorst Actions:"
  @bad_actions.sort{|a,b| b[1]<=>a[1]}.each { |elem|
    output.puts "#{elem[1]}, #{elem[0]}"
  }
end

end

endrequire 'optparse'

class Cli

  def initialize(args)
    @args = args
  end

  def process
    options = { :format => :short_summary, :type => :memory }

    op = OptionParser.new do |opts|
      opts.banner = "Usage: oink [options] files"

      opts.on("-t", "--threshold [INTEGER]", Integer,
        "Memory threshold in MB") do |threshold|
        options[:threshold] = threshold
      end
    end
  end
end

```

```

end

opts.on("-f", "--file filepath", "Output to file") do |filename|
  options[:output_file] = filename
end

format_list = (Oink::MemoryUsageReporter::FORMAT_ALIASES.keys +
Oink::MemoryUsageReporter::FORMATS).join(',')
opts.on("--format FORMAT", Oink::MemoryUsageReporter::FORMATS,
Oink::MemoryUsageReporter::FORMAT_ALIASES, "Select format",
" ({format_list})") do |format|
  options[:format] = format.to_sym
end

opts.on("-m", "--memory", "Check for Memory Threshold (default)") do |v|
  options[:type] = :memory
end

opts.on("-r", "--active-record", "Check for Active Record Threshold") do
|v|
  options[:type] = :active_record
end

end

op.parse!(@args)

if @args.empty?
  puts op
  exit
end

output = nil

if options[:output_file]
  output = File.open(options[:output_file], 'w')
else
  output = STDOUT
end

files = get_file_listing(@args)

handles = files.map { |f| File.open(f) }

if options[:type] == :memory

  options[:threshold] ||= 75
  options[:threshold] *= 1024

  Oink::MemoryUsageReporter.new(handles, options[:threshold], :format =>
options[:format]).print(output)

elsif options[:type] == :active_record

  options[:threshold] ||= 500

```

```
Oink::ActiveRecordInstantiationReporter.new(handles, options[:threshold],
:format => options[:format]).print(output)
```

```
end
```

```
output.close
handles.each { |h| h.close }
end
```

```
protected
```

```
def get_file_listing(args)
  listing = []
  args.each do |file|
    unless File.exist?(file)
      raise "Could not find \"#{file}\""
    end
    if File.directory?(file)
      listing += Dir.glob("#{file}/**")
    else
      listing << file
    end
  end
  listing
end
```

```
end
```

```
require "date"
require "oink/base"
require "oink/oinked_request/oinked_memory_request"
require "oink/priority_queue"
```

```
module Oink
```

```
  class MemoryUsageReporter < Base
```

```
    def print(output)
      output.puts "---- MEMORY THRESHOLD ----"
      output.puts "THRESHOLD: #{@threshold/1024} MB\n"

      output.puts "\n-- REQUESTS --\n" if @format == :verbose
```

```
      @inputs.each do |input|
        input.each_line do |line|
          line = line.strip
```

```
          if line =~ /rails\[([d+])\]/
            pid = $1
            @pids[pid] ||= { :buffer => [], :last_memory_reading => -1,
:current_memory_reading => -1, :action => "", :request_finished => true }
            @pids[pid][:buffer] << line
          end
```

```

    if line =~ /Processing ((\w+)#(\w+)) /

        unless @pids[pid][:request_finished]
            @pids[pid][:last_memory_reading] = -1
        end
        @pids[pid][:action] = $1
        @pids[pid][:request_finished] = false

    elsif line =~ /Memory usage: (\d+) /

        memory_reading = $1.to_i
        @pids[pid][:current_memory_reading] = memory_reading

    elsif line =~ /Completed in/

        @pids[pid][:request_finished] = true
        unless @pids[pid][:current_memory_reading] == -1 ||
@pids[pid][:last_memory_reading] == -1
            memory_diff = @pids[pid][:current_memory_reading] -
@pids[pid][:last_memory_reading]
            if memory_diff > @threshold
                @bad_actions[@pids[pid][:action]] ||= 0
                @bad_actions[@pids[pid][:action]] =
@bad_actions[@pids[pid][:action]] + 1
                date = /^( \w+ \d{2} \d{2}:\d{2}:\d{2})/.match(line).captures[0]
                @bad_requests.push(OinkedMemoryRequest.new(@pids[pid][:action],
date, @pids[pid][:buffer], memory_diff))
                if @format == :verbose
                    @pids[pid][:buffer].each { |b| output.puts b }
                    output.puts "-----"
                end
            end
        end
        @pids[pid][:buffer] = []
        @pids[pid][:last_memory_reading] =
@pids[pid][:current_memory_reading]
        @pids[pid][:current_memory_reading] = -1

        end # end elsif
    end # end each_line
end # end each input

    print_summary(output)

end

end

endrequire "oink/oinked_request/oinked_request"

class OinkedARRequest < OinkedRequest

```

```

    def display_oink_number
      @oink_number
    end

  endrequire "oink/oinked_request/oinked_request"

  class OinkedMemoryRequest < OinkedRequest

    def display_oink_number
      "#{@oink_number} KB"
    end

  endclass OinkedRequest

  attr_accessor :action, :datetime, :log_lines, :oink_number

  def initialize(action, datetime, log_lines, oink_number)
    @action = action
    @datetime = datetime
    @log_lines = log_lines
    @oink_number = oink_number
  end

  def <=>(other)
    self.oink_number <= other.oink_number
  end

  def >(other)
    self.oink_number > other.oink_number
  end

endclass PriorityQueue

  include Enumerable

  def initialize(size)
    @size = size
    @queue = []
  end

  def push(item)
    if @queue.size < @size
      @queue << item
    elsif item > @queue.last
      @queue[@size - 1] = item
    end
    prioritize
  end

  def to_a
    @queue
  end

  def size
    @queue.size
  end

```



```

end

def each
  @queue.each { |i| yield i }
end

protected

def prioritize
  @queue.sort! { |a, b| b <=> a }
end

endmodule Oink
module InstanceTypeCounter
  def self.included(klass)
    ActiveRecord::Base.send(:include, OinkInstanceTypeCounterInstanceMethods)

    klass.class_eval do
      after_filter :report_instance_type_count
    end
  end

  def before_report_active_record_count(instantiation_data)
  end

  private

  def report_instance_type_count
    report_hash = ActiveRecord::Base.instantiated_hash.merge("Total" =>
ActiveRecord::Base.total_objects_instantiated)
    breakdown = report_hash.sort{|a,b| b[1]<=>a[1]}.collect {|k,v| "#{k}:
#{v}" }.join(" | ")
    before_report_active_record_count(breakdown)
    if logger
      logger.info("Instantiation Breakdown: #{breakdown}")
    end
    ActiveRecord::Base.reset_instance_type_count
  end

end

module OinkInstanceTypeCounterInstanceMethods

  def self.included(klass)
    klass.class_eval do

      @@instantiated = {}
      @@total = nil

      def self.reset_instance_type_count
        @@instantiated = {}
        @@total = nil
      end

      def self.instantiated_hash

```

```

    @@instantiated
  end

  def self.total_objects_instantiated
    @@total ||= @@instantiated.inject(0) { |i, j| i + j.last }
  end

end
end

def after_initialize
  @@instantiated[self.class.base_class.name] ||= 0
  @@instantiated[self.class.base_class.name] =
@@instantiated[self.class.base_class.name] + 1
end

def after_initialize_with_instance_type_count
  after_initialize_without_instance_type_count
  _instance_counter_after_initialize
end
end
endmodule Oink
module MemoryUsageLogger
  def self.included(klass)
    klass.class_eval do
      after_filter :log_memory_usage
    end
  end

  private
  def log_memory_usage
    if logger
      memory_usage = `ps -o rss= -p #{$$}`.to_i
      logger.info("Memory usage: #{memory_usage} | PID: #{$$}")
    end
  end
end

end$.unshift(File.dirname(__FILE__ + '.rb') + '/../lib') unless
$.include?(File.dirname(__FILE__ + '.rb') + '/../lib')

require "oink/memory_usage_reporter"
require "oink/active_record_instantiation_reporter"
require "oink/cli"require File.expand_path(File.dirname(__FILE__) +
"../spec_helper")

describe Oink::ActiveRecordInstantiationReporter do

  describe "short summary with frequent offenders" do

    it "should report actions which exceed the threshold once" do
      str = <<-STR
      Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
      Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51

```

```

Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::ActiveRecordInstantiationReporter.new(io, 50).print(output)
output.should include("1, Users#show")
end

it "should not report actions which do not exceed the threshold" do
  str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
50 | User: 50
Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::ActiveRecordInstantiationReporter.new(io, 50).print(output)
output.should_not include("1, Users#show")
end

it "should report actions which exceed the threshold multiple times" do
  str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51
Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51
Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::ActiveRecordInstantiationReporter.new(io, 50).print(output)
output.should include("2, Users#show")
end

it "should order actions by most exceeded" do
  str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Media#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51

```

```

    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Media#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

```

```

    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::ActiveRecordInstantiationReporter.new(io, 50).print(output)
    output[-2].should == "2, Media#show"
    output[-1].should == "1, Users#show"
end

```

```

it "should not be bothered by incomplete requests" do
  str = <<-STR
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Media#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
24 | User: 24
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Media#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

```

```

    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::ActiveRecordInstantiationReporter.new(io, 50).print(output)
    output.should include("1, Users#show")
end

```

```
end
```

```
describe "summary with top 10 offenses" do
```

```

  it "should only report requests over threshold" do
    str = <<-STR
      Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]

```

```

    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::ActiveRecordInstantiationReporter.new(io, 50).print(output)
    output.should include("1. Feb 01 01:58:31, 51, Users#show")
end

it "should not include requests which are not over threshold" do
    str = <<-STR
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
50 | User: 50
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::ActiveRecordInstantiationReporter.new(io, 50).print(output)
    output.should_not include("1. Feb 01 01:58:31, 50, Users#show")
end

it "should order offenses from biggest to smallest" do
    str = <<-STR
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing DetailsController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
75 | User: 75
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:32 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:33 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
100 | User: 100
    Feb 01 01:58:34 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::ActiveRecordInstantiationReporter.new(io, 50).print(output)
    output[4].should == "1. Feb 01 01:58:34, 100, MediaController#show"
    output[5].should == "2. Feb 01 01:58:31, 75, DetailsController#show"
end

end

describe "verbose format" do
    it "should print the full lines of actions exceeding the threshold" do

```

```

    str = <<-STR
    Feb 01 01:58:32 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:33 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
100 | User: 100
    Feb 01 01:58:34 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR
    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::ActiveRecordInstantiationReporter.new(io, 50, :format =>
:verbose).print(output)
    output[3..5].should == str.split("\n")[0..2].map { |o| o.strip }
end

it "should handle actions which do not complete properly" do
    str = <<-STR
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Media#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
24 | User: 24
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Media#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
51 | User: 51
    Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::ActiveRecordInstantiationReporter.new(io, 50, :format =>
:verbose).print(output)
    output[3..5].should == str.split("\n")[4..6].map { |o| o.strip }
end
end

describe "multiple io streams" do
    it "should accept multiple files" do

        str1 = <<-STR
        Feb 01 01:58:32 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
        Feb 01 01:58:33 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
100 | User: 100
        Feb 01 01:58:34 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
        STR

        str2 = <<-STR

```

```

Feb 01 01:58:32 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:33 ey04-s00297 rails[4413]: Instantiation Breakdown: Total:
100 | User: 100
Feb 01 01:58:34 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io1 = StringIO.new(str1)
io2 = StringIO.new(str2)
output = PsuedoOutput.new
Oink::ActiveRecordInstantiationReporter.new([io1, io2], 50).print(output)
output.should include("2, MediaController#show")
end

end

end

require File.expand_path(File.dirname(__FILE__) + "../spec_helper")

describe Oink::MemoryUsageReporter do

  TEN_MEGS = 10 * 1024

  describe "short summary with frequent offenders" do

    it "should report actions which exceed the threshold once" do
      str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)
output.should include("1, MediaController#show")
end

    it "should not report actions which do not exceed the threshold" do
      threshold = 10

      str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413

```

```

Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS} | PID:
4413
Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)
output.should_not include("1, MediaController#show")
end

it "should report actions which exceed the threshold multiple times" do
  str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{(TEN_MEGS * 2) +
2} | PID: 4413
Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)
output.should include("2, MediaController#show")
end

it "should order actions by most exceeded" do
  str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413

```



```

    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{(TEN_MEGS * 2) +
2} | PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{(TEN_MEGS * 3) +
3} | PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)
    output[-2].should == "2, MediaController#show"
    output[-1].should == "1, Users#show"
end

it "should not report actions which do not complete properly" do
  threshold = 10

  str = <<-STR
  Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
  Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
  Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
  Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
  Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
  Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
  STR

  io = StringIO.new(str)
  output = PsuedoOutput.new
  Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)
  output.should_not include("1, MediaController#show")
end

it "should not report actions from different pids" do
  str = <<-STR
  Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
  Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
  Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
  Feb 01 01:58:29 ey04-s00297 rails[5513]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]

```

```

Feb 01 01:58:30 ey04-s00297 rails[5513]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
Feb 01 01:58:30 ey04-s00297 rails[5513]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)
output.should_not include("1, MediaController#show")
end

describe "summary with top 10 offenses" do

  it "should only report requests over threshold" do
    str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
Feb 01 01:58:32 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:33 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
Feb 01 01:58:34 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)
output.should include("1. Feb 01 01:58:34, #{TEN_MEGS + 1} KB,
MediaController#show")
end

  it "should not include requests which are not over the threshold" do
    str = <<-STR
Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
Feb 01 01:58:32 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
Feb 01 01:58:33 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS} |
PID: 4413
Feb 01 01:58:34 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
STR

io = StringIO.new(str)
output = PsuedoOutput.new
Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)

```

```

        output.should_not include("1. Feb 01 01:58:34, #{TEN_MEGS + 1} KB,
MediaController#show")
    end

    it "should order offenses from biggest to smallest" do
        str = <<-STR
        Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
        Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
        Feb 01 01:58:31 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
        Feb 01 01:58:32 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
        Feb 01 01:58:33 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
        Feb 01 01:58:34 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
        Feb 01 01:58:35 ey04-s00297 rails[4413]: Processing
DetailsController#show (for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
        Feb 01 01:58:36 ey04-s00297 rails[4413]: Memory usage: #{(TEN_MEGS * 2)
+ 2} | PID: 4413
        Feb 01 01:58:37 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
        STR

        io = StringIO.new(str)
        output = PsuedoOutput.new
        Oink::MemoryUsageReporter.new(io, TEN_MEGS).print(output)
        output[4].should == "1. Feb 01 01:58:34, #{TEN_MEGS + 1} KB,
MediaController#show"
        output[5].should == "2. Feb 01 01:58:37, #{TEN_MEGS + 1} KB,
DetailsController#show"
    end

end

# it "should report the time span" do
#     str = <<-STR
#     Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
#     Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
#     Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
#     Mar 13 01:58:29 ey04-s00297 rails[5513]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
#     Mar 13 01:58:30 ey04-s00297 rails[5513]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
#     Mar 13 03:58:30 ey04-s00297 rails[5513]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
#     STR
#
#     io = StringIO.new(str)
#     output = PsuedoOutput.new
#     Oink::MemoryUsageReporter.new(io, TEN_MEGS).each_line do |line|
#         output << line

```

```

# end
# output.first.should == "Feb 01 01:58:29 - Mar 13 03:58:30"
# end

end

describe "verbose format" do
  it "should print the full lines of actions exceeding the threshold" do
    str = <<-STR
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Parameters: {"id"=>"2332",
"controller"=>"users"}
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Parameters: {"id"=>"22900",
"controller"=>"media"}
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR
    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::MemoryUsageReporter.new(io, TEN_MEGS, :format =>
:verbose).print(output)
    output[3..6].should == str.split("\n")[4..7].map { |o| o.strip }
  end

  it "should handle actions which do not complete properly" do
    threshold = 10

    str = <<-STR
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing ActorController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{(TEN_MEGS * 2) +
2} | PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

```

```

    io = StringIO.new(str)
    output = PsuedoOutput.new
    Oink::MemoryUsageReporter.new(io, TEN_MEGS, :format =>
:verbose).print(output)
    output[3..5].should == str.split("\n")[6..8].map { |o| o.strip }
  end
end

describe "multiple io streams" do
  it "should accept multiple files" do

    str1 = <<-STR
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

    str2 = <<-STR
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing Users#show (for
92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: 0 | PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    Feb 01 01:58:29 ey04-s00297 rails[4413]: Processing MediaController#show
(for 92.84.151.171 at 2009-02-01 01:58:29) [GET]
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Memory usage: #{TEN_MEGS + 1} |
PID: 4413
    Feb 01 01:58:30 ey04-s00297 rails[4413]: Completed in 984ms (View: 840,
DB: 4) | 200 OK
    STR

    io1 = StringIO.new(str1)
    io2 = StringIO.new(str2)
    output = PsuedoOutput.new
    Oink::MemoryUsageReporter.new([io1, io2], TEN_MEGS).print(output)
    output.should include("2, MediaController#show")
  end
end

end

require File.expand_path(File.dirname(__FILE__) + "../spec_helper")

describe OinkedRequest do

  describe "sort" do
    it "should sort by memory used" do

```

```

    lr1 = OinkedRequest.new("Controller#Action", "February 1 10:20", [], 10)
    lr2 = OinkedRequest.new("Controller#Action", "February 1 10:20", [], 5)
    lr3 = OinkedRequest.new("Controller#Action", "February 1 10:20", [], 30)

    [lr1, lr2, lr3].sort.should == [lr2, lr1, lr3]
  end
end

endrequire File.expand_path(File.dirname(__FILE__) + "../spec_helper")

describe PriorityQueue do

  describe "size" do

    it "should report the right size" do
      pq = PriorityQueue.new(5)
      pq.push(1)
      pq.size.should == 1
      pq.push(2)
      pq.size.should == 2
    end

    it "should be limited to the size initialized with" do
      pq = PriorityQueue.new(5)
      pq.push(1)
      pq.push(2)
      pq.push(3)
      pq.push(4)
      pq.push(5)
      pq.push(6)
      pq.size.should == 5
    end
  end

end

describe "order" do

  it "should be in order from highest to lowest" do
    pq = PriorityQueue.new(5)
    pq.push(1)
    pq.push(2)
    pq.push(3)
    pq.to_a.should == [3,2,1]
  end

  it "should throw out the lower value when adding a new value" do
    pq = PriorityQueue.new(3)
    pq.push(1)
    pq.push(2)
    pq.push(3)
    pq.push(4)
    pq.to_a.should == [4,3,2]
  end
end

```

```

    it "should not make it into the queue if it's smaller than the items in the
queue" do
      pq = PriorityQueue.new(3)
      pq.push(2)
      pq.push(3)
      pq.push(4)
      pq.push(1)
      pq.to_a.should == [4,3,2]
    end

  end

  describe "each" do
    it "should return each item in turn" do
      arr = []
      pq = PriorityQueue.new(5)
      pq.push(2)
      pq.push(3)
      pq.push(4)
      pq.push(1)
      pq.push(5)
      pq.each do |i|
        arr << i
      end
      arr.should == [5,4,3,2,1]
    end
  end

endrequire File.expand_path(File.dirname(__FILE__) + "../spec_helper")

describe Oink::OinkInstanceTypeCounterInstanceMethods do
  before :each do
    ActiveRecord::Base.reset_instance_type_count
  end

  describe "hash" do
    it "should not count objects not instantiated" do
      ActiveRecord::Base.instantiated_hash["Pig"].should == nil
    end

    it "should include the objects instantiated" do
      Pig.create(:name => "Babe")
      Pig.first
      ActiveRecord::Base.instantiated_hash["Pig"].should == 2
    end

    it "should count instantiations for multiple classes" do
      Pig.create(:name => "Babe")
      Pen.create(:location => "Backyard")
      Pen.first
      ActiveRecord::Base.instantiated_hash["Pen"].should == 1
    end

    it "should report the total number of objects instantiated" do

```

```

    Pig.create(:name => "Babe")
    Pen.create(:location => "Backyard")
    Pig.first
    ActiveRecord::Base.total_objects_instantiated.should == 3
  end
end

describe "reset" do
  it "should reset the total count" do
    Pig.create(:name => "Babe")
    ActiveRecord::Base.instantiated_hash["Pig"].should == 1
    ActiveRecord::Base.reset_instance_type_count
    ActiveRecord::Base.total_objects_instantiated.should == 0
    Pig.create(:name => "Babe")
    ActiveRecord::Base.total_objects_instantiated.should == 0
  end
end

endrequire "rubygems"
require "spec"
require 'ostruct'

dir = File.dirname(__FILE__)
require File.join(dir, "../lib/oink.rb")
require "oink/rails/instance_type_counter"
require File.join(dir, '../config/environment')

class PsuedoOutput < Array

  def puts(line)
    self << line
  end
end

end

Spec::Runner.configure do |config|

  config.before :suite do
    load File.join(dir, "../db/schema.rb")
  end

  config.before :each do
    Pig.delete_all
    Pen.delete_all
  end

  config.before :suite do
    ActiveRecord::Base.send(:include,
Oink::OinkInstanceTypeCounterInstanceMethods)
    Pig = Class.new(ActiveRecord::Base)
    Pen = Class.new(ActiveRecord::Base)
    Pig.belongs_to :pen
  end

end

end#!/usr/bin/env ruby

```



```

executable_file =
File.expand_path("#{File.dirname(__FILE__)}/../../../script/oink")
File.delete(executable_file)require File.expand_path(File.dirname(__FILE__) +
"/lib/insert_routes.rb")
require 'digest/sha1'
class AuthenticatedGenerator < Rails::Generator::NamedBase
  default_options :skip_migration => false,
                  :skip_routes    => false,
                  :old_passwords  => false,
                  :include_activation => false

  attr_reader :controller_name,
              :controller_class_path,
              :controller_file_path,
              :controller_class_nesting,
              :controller_class_nesting_depth,
              :controller_class_name,
              :controller_singular_name,
              :controller_plural_name,
              :controller_routing_name,           # new_session_path
              :controller_routing_path,          # /session/new
              :controller_controller_name,        # sessions
              :controller_file_name

  alias_method :controller_table_name, :controller_plural_name
  attr_reader :model_controller_name,
              :model_controller_class_path,
              :model_controller_file_path,
              :model_controller_class_nesting,
              :model_controller_class_nesting_depth,
              :model_controller_class_name,
              :model_controller_singular_name,
              :model_controller_plural_name,
              :model_controller_routing_name,    # new_user_path
              :model_controller_routing_path,    # /users/new
              :model_controller_controller_name  # users

  alias_method :model_controller_file_name, :model_controller_singular_name
  alias_method :model_controller_table_name, :model_controller_plural_name

  def initialize(runtime_args, runtime_options = {})
    super

    @rspec = has_rspec?

    @controller_name = (args.shift || 'sessions').pluralize
    @model_controller_name = @name.pluralize

    # sessions controller
    base_name, @controller_class_path, @controller_file_path,
    @controller_class_nesting, @controller_class_nesting_depth =
extract_modules(@controller_name)
    @controller_class_name_without_nesting, @controller_file_name,
    @controller_plural_name = inflect_names(base_name)
    @controller_singular_name = @controller_file_name.singularize
    if @controller_class_nesting.empty?

```

```

    @controller_class_name = @controller_class_name_without_nesting
  else
    @controller_class_name =
    "#{@controller_class_nesting}::#{@controller_class_name_without_nesting}"
  end
  @controller_routing_name = @controller_singular_name
  @controller_routing_path = @controller_file_path.singularize
  @controller_controller_name = @controller_plural_name

  # model controller
  base_name, @model_controller_class_path, @model_controller_file_path,
  @model_controller_class_nesting, @model_controller_class_nesting_depth =
  extract_modules(@model_controller_name)
  @model_controller_class_name_without_nesting,
  @model_controller_singular_name, @model_controller_plural_name =
  inflect_names(base_name)

  if @model_controller_class_nesting.empty?
    @model_controller_class_name =
    @model_controller_class_name_without_nesting
  else
    @model_controller_class_name =
    "#{@model_controller_class_nesting}::#{@model_controller_class_name_without_nesting}"
  end
  @model_controller_routing_name = @table_name
  @model_controller_routing_path = @model_controller_file_path
  @model_controller_controller_name = @model_controller_plural_name

  load_or_initialize_site_keys()

  if options[:dump_generator_attribute_names]
    dump_generator_attribute_names
  end
end

def manifest
  recorded_session = record do |m|
    # Check for class naming collisions.
    m.class_collisions controller_class_path,
    "#{controller_class_name}Controller", # Sessions Controller

    "#{controller_class_name}Helper"
    m.class_collisions model_controller_class_path,
    "#{model_controller_class_name}Controller", # Model Controller

    "#{model_controller_class_name}Helper"
    m.class_collisions class_path, "#{class_name}",
    "#{class_name}Mailer", "#{class_name}MailerTest", "#{class_name}Observer"
    m.class_collisions [], 'AuthenticatedSystem', 'AuthenticatedTestHelper'

    # Controller, helper, views, and test directories.
    m.directory File.join('app/models', class_path)
    m.directory File.join('app/controllers', controller_class_path)
    m.directory File.join('app/controllers', model_controller_class_path)
  end
end

```

```

    m.directory File.join('app/helpers', controller_class_path)
    m.directory File.join('app/views', controller_class_path,
controller_file_name)
    m.directory File.join('app/views', class_path, "#{file_name}_mailer") if
options[:include_activation]

    m.directory File.join('app/controllers', model_controller_class_path)
    m.directory File.join('app/helpers', model_controller_class_path)
    m.directory File.join('app/views', model_controller_class_path,
model_controller_file_name)
    m.directory File.join('config/initializers')

    if @rspec
      m.directory File.join('spec/controllers', controller_class_path)
      m.directory File.join('spec/controllers', model_controller_class_path)
      m.directory File.join('spec/models', class_path)
      m.directory File.join('spec/helpers', model_controller_class_path)
      m.directory File.join('spec/fixtures', class_path)
      m.directory File.join('stories', model_controller_file_path)
      m.directory File.join('stories', 'steps')
    else
      m.directory File.join('test/functional', controller_class_path)
      m.directory File.join('test/functional', model_controller_class_path)
      m.directory File.join('test/unit', class_path)
      m.directory File.join('test/fixtures', class_path)
    end

    m.template 'model.rb',
      File.join('app/models',
        class_path,
        "#{file_name}.rb")

    if options[:include_activation]
      %w( mailer observer ).each do |model_type|
        m.template "#{model_type}.rb", File.join('app/models',
          class_path,
          "#{file_name}_#{model_type}.rb")
      end
    end

    m.template 'controller.rb',
      File.join('app/controllers',
        controller_class_path,
        "#{controller_file_name}_controller.rb")

    m.template 'model_controller.rb',
      File.join('app/controllers',
        model_controller_class_path,
        "#{model_controller_file_name}_controller.rb")

    m.template 'authenticated_system.rb',
      File.join('lib', 'authenticated_system.rb')

    m.template 'authenticated_test_helper.rb',
      File.join('lib', 'authenticated_test_helper.rb')

```

```

m.template 'site_keys.rb', site_keys_file

if @rspec
  # RSpec Specs
  m.template 'spec/controllers/users_controller_spec.rb',
    File.join('spec/controllers',
      model_controller_class_path,
      "#{model_controller_file_name}_controller_spec.rb")
  m.template 'spec/controllers/sessions_controller_spec.rb',
    File.join('spec/controllers',
      controller_class_path,
      "#{controller_file_name}_controller_spec.rb")
  m.template 'spec/controllers/access_control_spec.rb',
    File.join('spec/controllers',
      controller_class_path,
      "access_control_spec.rb")
  m.template 'spec/controllers/authenticated_system_spec.rb',
    File.join('spec/controllers',
      controller_class_path,
      "authenticated_system_spec.rb")
  m.template 'spec/helpers/users_helper_spec.rb',
    File.join('spec/helpers',
      model_controller_class_path,
      "#{table_name}_helper_spec.rb")
  m.template 'spec/models/user_spec.rb',
    File.join('spec/models',
      class_path,
      "#{file_name}_spec.rb")
  m.template 'spec/fixtures/users.yml',
    File.join('spec/fixtures',
      class_path,
      "#{table_name}.yml")

  # RSpec Stories
  m.template 'stories/steps/ra_navigation_steps.rb',
    File.join('stories/steps/ra_navigation_steps.rb')
  m.template 'stories/steps/ra_response_steps.rb',
    File.join('stories/steps/ra_response_steps.rb')
  m.template 'stories/steps/ra_resource_steps.rb',
    File.join('stories/steps/ra_resource_steps.rb')
  m.template 'stories/steps/user_steps.rb',
    File.join('stories/steps/', "#{file_name}_steps.rb")
  m.template 'stories/users/accounts.story',
    File.join('stories', model_controller_file_path, 'accounts.story')
  m.template 'stories/users/sessions.story',
    File.join('stories', model_controller_file_path, 'sessions.story')
  m.template 'stories/rest_auth_stories_helper.rb',
    File.join('stories', 'rest_auth_stories_helper.rb')
  m.template 'stories/rest_auth_stories.rb',
    File.join('stories', 'rest_auth_stories.rb')

else
  m.template 'test/functional_test.rb',

```

```

        File.join('test/functional',
                  controller_class_path,
                  "#{controller_file_name}_controller_test.rb")
m.template 'test/model_functional_test.rb',
        File.join('test/functional',
                  model_controller_class_path,

"#{model_controller_file_name}_controller_test.rb")
        m.template 'test/unit_test.rb',
                  File.join('test/unit',
                              class_path,
                              "#{file_name}_test.rb")
        if options[:include_activation]
            m.template 'test/mailer_test.rb', File.join('test/unit', class_path,
"#{file_name}_mailer_test.rb")
        end
        m.template 'spec/fixtures/users.yml',
                  File.join('test/fixtures',
                              class_path,
                              "#{table_name}.yml")
    end

    m.template 'helper.rb',
        File.join('app/helpers',
                  controller_class_path,
                  "#{controller_file_name}_helper.rb")

    m.template 'model_helper.rb',
        File.join('app/helpers',
                  model_controller_class_path,
                  "#{model_controller_file_name}_helper.rb")

    # Controller templates
    m.template 'login.html.erb', File.join('app/views',
controller_class_path, controller_file_name, "new.html.erb")
    m.template 'signup.html.erb', File.join('app/views',
model_controller_class_path, model_controller_file_name, "new.html.erb")
    m.template '_model_partial.html.erb', File.join('app/views',
model_controller_class_path, model_controller_file_name,
"_#{file_name}_bar.html.erb")

    if options[:include_activation]
        # Mailer templates
        %w( activation signup_notification ).each do |action|
            m.template "#{action}.erb",
                File.join('app/views', "#{file_name}_mailer",
"#{action}.erb")
        end
    end

    unless options[:skip_migration]
        m.migration_template 'migration.rb', 'db/migrate', :assigns => {
            :migration_name => "Create#{class_name.pluralize.gsub(/::/, '')}"
        }
    end

```

```

    }, :migration_file_name => "create_#{file_path.gsub(/\\/,
'_' ).pluralize}"
  end
  unless options[:skip_routes]
    # Note that this fails for nested classes -- you're on your own with
setting up the routes.
    m.route_resource controller_singular_name
    m.route_resources model_controller_plural_name
    m.route_name('signup', '/signup', {:controller =>
model_controller_plural_name, :action => 'new'})
    m.route_name('register', '/register', {:controller =>
model_controller_plural_name, :action => 'create'})
    m.route_name('login', '/login', {:controller =>
controller_controller_name, :action => 'new'})
    m.route_name('logout', '/logout', {:controller =>
controller_controller_name, :action => 'destroy'})
  end
end

#
# Post-install notes
#
action = File.basename($0) # grok the action from './script/generate' or
whatever
case action
when "generate"
  puts "Ready to generate."
  puts ("-" * 70)
  puts "Once finished, don't forget to:"
  puts
  if options[:include_activation]
    puts "- Add an observer to config/environment.rb"
    puts "    config.active_record.observers = :#{file_name}_observer"
  end
  if options[:aasm]
    puts "- Install the acts_as_state_machine gem:"
    puts "    sudo gem sources -a http://gems.github.com (If you haven't
already)"
    puts "    sudo gem install rubyist-aasm"
  elsif options[:stateful]
    puts "- Install the acts_as_state_machine plugin:"
    puts "    svn export
http://elitists.textdriven.com/svn/plugins/acts_as_state_machine/trunk
vendor/plugins/acts_as_state_machine"
  end
  puts "- Add routes to these resources. In config/routes.rb, insert routes
like:"
  puts %(    map.signup '/signup', :controller =>
'#{model_controller_file_name}', :action => 'new')
  puts %(    map.login '/login', :controller => '#{controller_file_name}',
:action => 'new')
  puts %(    map.logout '/logout', :controller => '#{controller_file_name}',
:action => 'destroy')
  if options[:include_activation]

```

```

        puts %(      map.activate '/activate/:activation_code', :controller =>
'#{model_controller_file_name}', :action => 'activate', :activation_code => nil)
        end
        if options[:stateful]
            puts "    and modify the map.resources :#{model_controller_file_name}
line to include these actions:"
            puts "      map.resources :#{model_controller_file_name}, :member => {
:suspend => :put, :unsuspend => :put, :purge => :delete }"
        end
        puts
        puts ("-" * 70)
        puts
        if $rest_auth_site_key_from_generator.blank?
            puts "You've set a nil site key. This preserves existing users'
passwords,"
            puts "but allows dictionary attacks in the unlikely event your database
is"
            puts "compromised and your site code is not.  See the README for more."
        elsif $rest_auth_keys_are_new
            puts "We've create a new site key in #{site_keys_file}.  If you have
existing"
            puts "user accounts their passwords will no longer work (see README). As
always,"
            puts "keep this file safe but don't post it in public."
        else
            puts "We've reused the existing site key in #{site_keys_file}.  As
always,"
            puts "keep this file safe but don't post it in public."
        end
        puts
        puts ("-" * 70)
        when "destroy"
            puts
            puts ("-" * 70)
            puts
            puts "Thanks for using restful_authentication"
            puts
            puts "Don't forget to comment out the observer line in environment.rb"
            puts "  (This was optional so it may not even be there)"
            puts "  # config.active_record.observers = :#{file_name}_observer"
            puts
            puts ("-" * 70)
            puts
        else
            puts "Didn't understand the action '#{action}' -- you might have missed
the 'after running me' instructions."
        end
        end

        #
        # Do the thing
        #
        recorded_session
    end

    def has_rspec?

```

```

    spec_dir = File.join(RAILS_ROOT, 'spec')
    options[:rspec] ||= (File.exist?(spec_dir) && File.directory?(spec_dir))
unless (options[:rspec] == false)
  end

  #
  # !! These must match the corresponding routines in by_password.rb !!
  #
  def secure_digest(*args)
    Digest::SHA1.hexdigest(args.flatten.join('--'))
  end
  def make_token
    secure_digest(Time.now, (1..10).map{ rand.to_s })
  end
  def password_digest(password, salt)
    digest = $rest_auth_site_key_from_generator
    $rest_auth_digest_stretches_from_generator.times do
      digest = secure_digest(digest, salt, password,
$rest_auth_site_key_from_generator)
    end
    digest
  end

  #
  # Try to be idempotent:
  # pull in the existing site key if any,
  # seed it with reasonable defaults otherwise
  #
  def load_or_initialize_site_keys
    case
    when defined? REST_AUTH_SITE_KEY
      if (options[:old_passwords]) && (!! REST_AUTH_SITE_KEY.blank?) ||
(REST_AUTH_DIGEST_STRETCHES != 1))
        raise "You have a site key, but --old-passwords will overwrite it. If
this is really what you want, move the file #{site_keys_file} and re-run."
      end
      $rest_auth_site_key_from_generator = REST_AUTH_SITE_KEY
      $rest_auth_digest_stretches_from_generator = REST_AUTH_DIGEST_STRETCHES
    when options[:old_passwords]
      $rest_auth_site_key_from_generator = nil
      $rest_auth_digest_stretches_from_generator = 1
      $rest_auth_keys_are_new = true
    else
      $rest_auth_site_key_from_generator = make_token
      $rest_auth_digest_stretches_from_generator = 10
      $rest_auth_keys_are_new = true
    end
  end
  def site_keys_file
    File.join("config", "initializers", "site_keys.rb")
  end

protected
  # Override with your own usage banner.
  def banner

```



```

    "Usage: #{ $0 } authenticated ModelName [ControllerName]"
end

def add_options!(opt)
  opt.separator ''
  opt.separator 'Options:'
  opt.on("--skip-migration",
    "Don't generate a migration file for this model") { |v|
options[:skip_migration] = v }
  opt.on("--include-activation",
    "Generate signup 'activation code' confirmation via email") { |v|
options[:include_activation] = true }
  opt.on("--stateful",
    "Use acts_as_state_machine. Assumes --include-activation") { |v|
options[:include_activation] = options[:stateful] = true }
  opt.on("--aasm",
    "Use (gem) aasm. Assumes --include-activation") { |v|
options[:include_activation] = options[:stateful] = options[:aasm] = true }
  opt.on("--rspec",
    "Force rspec mode (checks for RAILS_ROOT/spec by default)") { |v|
options[:rspec] = true }
  opt.on("--no-rspec",
    "Force test (not RSpec mode)") { |v|
options[:rspec] = false }
  opt.on("--skip-routes",
    "Don't generate a resource line in config/routes.rb") { |v|
options[:skip_routes] = v }
  opt.on("--old-passwords",
    "Use the older password encryption scheme (see README)") { |v|
options[:old_passwords] = v }
  opt.on("--dump-generator-attrs",
    "(generator debug helper)") { |v|
options[:dump_generator_attribute_names] = v }
end

def dump_generator_attribute_names
  generator_attribute_names = [
    :table_name,
    :file_name,
    :class_name,
    :controller_name,
    :controller_class_path,
    :controller_file_path,
    :controller_class_nesting,
    :controller_class_nesting_depth,
    :controller_class_name,
    :controller_singular_name,
    :controller_plural_name,
    :controller_routing_name,
    :controller_routing_path,
    :controller_controller_name,
    :controller_file_name,
    :controller_table_name, :controller_plural_name,
    :model_controller_name,
    :model_controller_class_path,
    # new_session_path
    # /session/new
    # sessions
  ]
end

```

```

      :model_controller_file_path,
      :model_controller_class_nesting,
      :model_controller_class_nesting_depth,
      :model_controller_class_name,
      :model_controller_singular_name,
      :model_controller_plural_name,
      :model_controller_routing_name,          # new_user_path
      :model_controller_routing_path,          # /users/new
      :model_controller_controller_name,        # users
      :model_controller_file_name, :model_controller_singular_name,
      :model_controller_table_name, :model_controller_plural_name,
    ]
    generator_attribute_names.each do |attr|
      puts "%-40s %s" % ["#{attr}:", self.send(attr)] #
    instance_variable_get("@#{attr.to_s}")
    end

  end
end
end

```

```

# ./script/generate authenticated FoonParent::Foon SporkParent::Spork -p --force
--rspec --dump-generator-attrs
# table_name:                foon_parent_foons
# file_name:                  foon
# class_name:                  FoonParent::Foon
# controller_name:             SporkParent::Sporks
# controller_class_path:       spork_parent
# controller_file_path:        spork_parent/sporks
# controller_class_nesting:    SporkParent
# controller_class_nesting_depth: 1
# controller_class_name:       SporkParent::Sporks
# controller_singular_name:     spork
# controller_plural_name:       sporks
# controller_routing_name:      spork
# controller_routing_path:      spork_parent/spork
# controller_controller_name:    sporks
# controller_file_name:         sporks
# controller_table_name:        sporks
# controller_plural_name:       sporks
# model_controller_name:        FoonParent::Foons
# model_controller_class_path:   foon_parent
# model_controller_file_path:    foon_parent/foons
# model_controller_class_nesting: FoonParent
# model_controller_class_nesting_depth: 1
# model_controller_class_name:   FoonParent::Foons
# model_controller_singular_name: foons
# model_controller_plural_name:   foons
# model_controller_routing_name:  foon_parent_foons
# model_controller_routing_path:  foon_parent/foons
# model_controller_controller_name: foons
# model_controller_file_name:     foons
# model_controller_singular_name:  foons
# model_controller_table_name:     foons
# model_controller_plural_name:    foons
Rails::Generator::Commands::Create.class_eval do

```

```

def route_resource(*resources)
  resource_list = resources.map { |r| r.to_sym.inspect }.join(', ')
  sentinel = 'ActionController::Routing::Routes.draw do |map|'

  logger.route "map.resource #{resource_list}"
  unless options[:pretend]
    gsub_file 'config/routes.rb', /(#{Regexp.escape(sentinel)})/mi do |match|
      "#{match}\n  map.resource #{resource_list}\n"
    end
  end
end

def route_name(name, path, route_options = {})
  sentinel = 'ActionController::Routing::Routes.draw do |map|'

  logger.route "map.#{name} '#{path}', :controller =>
'#{route_options[:controller]}', :action => '#{route_options[:action]}'"
  unless options[:pretend]
    gsub_file 'config/routes.rb', /(#{Regexp.escape(sentinel)})/mi do |match|
      "#{match}\n  map.#{name} '#{path}', :controller =>
'#{route_options[:controller]}', :action => '#{route_options[:action]}'"
    end
  end
end

Rails::Generator::Commands::Destroy.class_eval do
  def route_resource(*resources)
    resource_list = resources.map { |r| r.to_sym.inspect }.join(', ')
    look_for = "\n  map.resource #{resource_list}\n"
    logger.route "map.resource #{resource_list}"
    unless options[:pretend]
      gsub_file 'config/routes.rb', /(#{look_for})/mi, ''
    end
  end

  def route_name(name, path, route_options = {})
    look_for = "\n  map.#{name} '#{path}', :controller =>
'#{route_options[:controller]}', :action => '#{route_options[:action]}'"
    logger.route "map.#{name} '#{path}', :controller =>
'#{route_options[:controller]}', :action => '#{route_options[:action]}'"
    unless options[:pretend]
      gsub_file 'config/routes.rb', /(#{look_for})/mi, ''
    end
  end
end

Rails::Generator::Commands::List.class_eval do
  def route_resource(*resources)
    resource_list = resources.map { |r| r.to_sym.inspect }.join(', ')
    logger.route "map.resource #{resource_list}"
  end

  def route_name(name, path, options = {})

```

```

    logger.route "map.#{name} '#{path}'", :controller =>
'#{options[:controller]}'', :action => ' #{options[:action]}'"
    end
end
module AuthenticatedSystem
  protected
    # Returns true or false if the <%= file_name %> is logged in.
    # Preloads @current_<%= file_name %> with the <%= file_name %> model if
they're logged in.
    def logged_in?
      !!current_<%= file_name %>
    end

    # Accesses the current <%= file_name %> from the session.
    # Future calls avoid the database because nil is not equal to false.
    def current_<%= file_name %>
      @current_<%= file_name %> ||= (login_from_session || login_from_basic_auth
|| login_from_cookie) unless @current_<%= file_name %> == false
    end

    # Store the given <%= file_name %> id in the session.
    def current_<%= file_name %>=(new_<%= file_name %>)
      session[:<%= file_name %>_id] = new_<%= file_name %> ? new_<%= file_name
%>.id : nil
      @current_<%= file_name %> = new_<%= file_name %> || false
    end

    # Check if the <%= file_name %> is authorized
    #
    # Override this method in your controllers if you want to restrict access
    # to only a few actions or if you want to check if the <%= file_name %>
    # has the correct rights.
    #
    # Example:
    #
    # # only allow nonbobs
    # def authorized?
    #   current_<%= file_name %>.login != "bob"
    # end
    #
    def authorized?(action = action_name, resource = nil)
      logged_in?
    end

    # Filter method to enforce a login requirement.
    #
    # To require logins for all actions, use this in your controllers:
    #
    #   before_filter :login_required
    #
    # To require logins for specific actions, use this in your controllers:
    #
    #   before_filter :login_required, :only => [ :edit, :update ]
    #
    # To skip this in a subclassed controller:

```

```

#
# skip_before_filter :login_required
#
def login_required
  authorized? || access_denied
end

# Redirect as appropriate when an access request fails.
#
# The default action is to redirect to the login screen.
#
# Override this method in your controllers if you want to have special
# behavior in case the <%= file_name %> is not authorized
# to access the requested action. For example, a popup window might
# simply close itself.
def access_denied
  respond_to do |format|
    format.html do
      store_location
      redirect_to new_<%= controller_routing_name %>_path
    end
    # format.any doesn't work in rails version <
http://dev.rubyonrails.org/changeset/8987
    # Add any other API formats here. (Some browsers, notably IE6, send
Accept: */* and trigger
    # the 'format.any' block incorrectly. See http://bit.ly/ie6_borken or
http://bit.ly/ie6_borken2
    # for a workaround.)
    format.any(:json, :xml) do
      request_http_basic_authentication 'Web Password'
    end
  end
end
end

# Store the URI of the current request in the session.
#
# We can return to this location by calling #redirect_back_or_default.
def store_location
  session[:return_to] = request.request_uri
end

# Redirect to the URI stored by the most recent store_location call or
# to the passed default. Set an appropriately modified
# after_filter :store_location, :only => [:index, :new, :show, :edit]
# for any controller you want to be bounce-backable.
def redirect_back_or_default(default)
  redirect_to(session[:return_to] || default)
  session[:return_to] = nil
end

# Inclusion hook to make #current_<%= file_name %> and #logged_in?
# available as ActionView helper methods.
def self.included(base)
  base.send :helper_method, :current_<%= file_name %>, :logged_in?,
:authorized? if base.respond_to? :helper_method

```

```

end

#
# Login
#

# Called from #current_<%= file_name %>. First attempt to login by the <%=
file_name %> id stored in the session.
def login_from_session
  self.current_<%= file_name %> = <%= class_name %>.find_by_id(session[:<%=
file_name %>_id]) if session[:<%= file_name %>_id]
end

# Called from #current_<%= file_name %>. Now, attempt to login by basic
authentication information.
def login_from_basic_auth
  authenticate_with_http_basic do |login, password|
    self.current_<%= file_name %> = <%= class_name %>.authenticate(login,
password)
  end
end

#
# Logout
#

# Called from #current_<%= file_name %>. Finally, attempt to login by an
expiring token in the cookie.
# for the paranoid: we _should_ be storing <%= file_name %>_token =
hash(cookie_token, request IP)
def login_from_cookie
  <%= file_name %> = cookies[:auth_token] && <%= class_name
%>.find_by_remember_token(cookies[:auth_token])
  if <%= file_name %> && <%= file_name %>.remember_token?
    self.current_<%= file_name %> = <%= file_name %>
    handle_remember_cookie! false # freshen cookie token (keeping date)
    self.current_<%= file_name %>
  end
end

# This is ususally what you want; resetting the session willy-nilly wreaks
# havoc with forgery protection, and is only strictly necessary on login.
# However, **all session state variables should be unset here**.
def logout_keeping_session!
  # Kill server-side auth cookie
  @current_<%= file_name %>.forget_me if @current_<%= file_name %>.is_a? <%=
class_name %>
  @current_<%= file_name %> = false # not logged in, and don't do it for
me
  kill_remember_cookie! # Kill client-side auth cookie
  session[:<%= file_name %>_id] = nil # keeps the session but kill our
variable
  # explicitly kill any other session variables you set
end

```

```

# The session should only be reset at the tail end of a form POST --
# otherwise the request forgery protection fails. It's only really necessary
# when you cross quarantine (logged-out to logged-in).
def logout_killing_session!
  logout_keeping_session!
  reset_session
end

#
# Remember_me Tokens
#
# Cookies shouldn't be allowed to persist past their freshness date,
# and they should be changed at each login

# Cookies shouldn't be allowed to persist past their freshness date,
# and they should be changed at each login

def valid_remember_cookie?
  return nil unless @current_<%= file_name %>
    (@current_<%= file_name %>.remember_token?) &&
    (cookies[:auth_token] == @current_<%= file_name %>.remember_token)
end

# Refresh the cookie auth token if it exists, create it otherwise
def handle_remember_cookie!(new_cookie_flag)
  return unless @current_<%= file_name %>
  case
  when valid_remember_cookie? then @current_<%= file_name %>.refresh_token #
keeping same expiry date
  when new_cookie_flag         then @current_<%= file_name %>.remember_me
  else                          @current_<%= file_name %>.forget_me
  end
  send_remember_cookie!
end

def kill_remember_cookie!
  cookies.delete :auth_token
end

def send_remember_cookie!
  cookies[:auth_token] = {
    :value    => @current_<%= file_name %>.remember_token,
    :expires => @current_<%= file_name %>.remember_token_expires_at }
end

end
module AuthenticatedTestHelper
  # Sets the current <%= file_name %> in the session from the <%= file_name %>
  fixtures.
  def login_as(<%= file_name %>)
    @request.session[:<%= file_name %>_id] = <%= file_name %> ? <%= table_name
%>(<%= file_name %>).id : nil
  end

  def authorize_as(<%= file_name %>)

```

```

    @request.env["HTTP_AUTHORIZATION"] = <%= file_name %> ?
    ActionController::HttpAuthentication::Basic.encode_credentials(<%= table_name
%>(<%= file_name %>).login, 'monkey') : nil
    end

<% if options[:rspec] -%>
  # rspec
  def mock_<%= file_name %>
    <%= file_name %> = mock_model(<%= class_name %>, :id => 1,
      :login => 'user_name',
      :name => 'U. Surname',
      :to_xml => "<%= class_name %>-in-XML", :to_json => "<%= class_name %>-in-
JSON",
      :errors => [])
    <%= file_name %>
  end
<% end -%>
end
# This controller handles the login/logout function of the site.
class <%= controller_class_name %>Controller < ApplicationController
  # Be sure to include AuthenticationSystem in Application Controller instead
  include AuthenticatedSystem

  # render new.rhtml
  def new
  end

  def create
    logout_keeping_session!
    <%= file_name %> = <%= class_name %>.authenticate(params[:login],
params[:password])
    if <%= file_name %>
      # Protects against session fixation attacks, causes request forgery
      # protection if user resubmits an earlier form using back
      # button. Uncomment if you understand the tradeoffs.
      # reset_session
      self.current_<%= file_name %> = <%= file_name %>
      new_cookie_flag = (params[:remember_me] == "1")
      handle_remember_cookie! new_cookie_flag
      redirect_back_or_default('/')
      flash[:notice] = "Logged in successfully"
    else
      note_failed_signin
      @login = params[:login]
      @remember_me = params[:remember_me]
      render :action => 'new'
    end
  end

  def destroy
    logout_killing_session!
    flash[:notice] = "You have been logged out."
    redirect_back_or_default('/')
  end
end

```



```

protected
  # Track failed login attempts
  def note_failed_signin
    flash[:error] = "Couldn't log you in as '#{params[:login]}'"
    logger.warn "Failed login for '#{params[:login]}' from #{request.remote_ip}"
  at #{Time.now.utc}"
  end
end

module <%= controller_class_name %>Helper
endclass <%= class_name %>Mailer < ActionMailer::Base
  def signup_notification(<%= file_name %>)
    setup_email(<%= file_name %>)
    @subject += 'Please activate your new account'
    <% if options[:include_activation] %>
      @body[:url] = "http://YOURSITE/activate/#{<%= file_name
%>.activation_code}"
    <% else %>
      @body[:url] = "http://YOURSITE/login/" <% end %>
    end

    def activation(<%= file_name %>)
      setup_email(<%= file_name %>)
      @subject += 'Your account has been activated!'
      @body[:url] = "http://YOURSITE/"
    end

protected
  def setup_email(<%= file_name %>)
    @recipients = "#{<%= file_name %>.email}"
    @from = "ADMINEMAIL"
    @subject = "[YOURSITE] "
    @sent_on = Time.now
    @body[:<%= file_name %>] = <%= file_name %>
  end
end

class <%= migration_name %> < ActiveRecord::Migration
  def self.up
    create_table "<%= table_name %>", :force => true do |t|
      t.column :login, :string, :limit => 40
      t.column :name, :string, :limit => 100, :default =>
'', :null => true
      t.column :email, :string, :limit => 100
      t.column :crypted_password, :string, :limit => 40
      t.column :salt, :string, :limit => 40
      t.column :created_at, :datetime
      t.column :updated_at, :datetime
      t.column :remember_token, :string, :limit => 40
      t.column :remember_token_expires_at, :datetime
    <% if options[:include_activation] -%>
      t.column :activation_code, :string, :limit => 40
      t.column :activated_at, :datetime<% end %>
    <% if options[:stateful] -%>
      t.column :state, :string, :null => :no, :default =>
'passive'
      t.column :deleted_at, :datetime<% end %>

```

```

    end
    add_index :<%= table_name %>, :login, :unique => true
  end

  def self.down
    drop_table "<%= table_name %>"
  end
end
require 'digest/sha1'

class <%= class_name %> < ActiveRecord::Base
  include Authentication
  include Authentication::ByPassword
  include Authentication::ByCookieToken
  <% if options[:aasm] -%>
    include Authorization::AasmRoles
  <% elsif options[:stateful] -%>
    include Authorization::StatefulRoles<% end %>
    validates_presence_of      :login
    validates_length_of        :login,      :within => 3..40
    validates_uniqueness_of    :login
    validates_format_of        :login,      :with => Authentication.login_regex,
:message => Authentication.bad_login_message

    validates_format_of        :name,        :with => Authentication.name_regex,
:message => Authentication.bad_name_message, :allow_nil => true
    validates_length_of        :name,        :maximum => 100

    validates_presence_of      :email
    validates_length_of        :email,      :within => 6..100 #r@a.wk
    validates_uniqueness_of    :email
    validates_format_of        :email,      :with => Authentication.email_regex,
:message => Authentication.bad_email_message

    <% if options[:include_activation] && !options[:stateful] %>before_create
:make_activation_code <% end %>

    # HACK HACK HACK -- how to do attr_accessible from here?
    # prevents a user from submitting a crafted form that bypasses activation
    # anything else you want your user to change should be added here.
    attr_accessible :login, :email, :name, :password, :password_confirmation

  <% if options[:include_activation] && !options[:stateful] %>
    # Activates the user in the database.
    def activate!
      @activated = true
      self.activated_at = Time.now.utc
      self.activation_code = nil
      save(false)
    end

    # Returns true if the user has just been activated.
    def recently_activated?
      @activated
    end
  <% end %>
end

```

```

def active?
  # the existence of an activation code means they have not activated yet
  activation_code.nil?
end<% end %>

# Authenticates a user by their login name and unencrypted password. Returns
the user or nil.
#
# uff. this is really an authorization, not authentication routine.
# We really need a Dispatch Chain here or something.
# This will also let us return a human error message.
#
def self.authenticate(login, password)
  return nil if login.blank? || password.blank?
  u = <% if options[:stateful] %>find_in_state :first, :active,
:conditions => {:login => login}<%
    elsif options[:include_activation] %>find :first, :conditions =>
['login = ? and activated_at IS NOT NULL', login]<%
    else %>find_by_login(login)<% end %> # need to get the salt
  u && u.authenticated?(password) ? u : nil
end

def login=(value)
  write_attribute :login, (value ? value.downcase : nil)
end

def email=(value)
  write_attribute :email, (value ? value.downcase : nil)
end

protected

<% if options[:include_activation] -%>
  def make_activation_code
    <% if options[:stateful] -%>
      self.deleted_at = nil
    <% end -%>
    self.activation_code = self.class.make_token
  end
<% end %>

end

class <%= model_controller_class_name %>Controller < ApplicationController
  # Be sure to include AuthenticationSystem in Application Controller instead
  include AuthenticatedSystem
  <% if options[:stateful] %>
    # Protect these actions behind an admin login
    # before_filter :admin_required, :only => [:suspend, :unsuspend, :destroy,
:purge]
    before_filter :find_<%= file_name %>, :only => [:suspend, :unsuspend,
:destroy, :purge]
  <% end %>

  # render new.rhtml

```

```

def new
  @<%= file_name %> = <%= class_name %>.new
end

def create
  logout_keeping_session!
  @<%= file_name %> = <%= class_name %>.new(params[:<%= file_name %>])
<% if options[:stateful] -%>
  @<%= file_name %>.register! if @<%= file_name %> && @<%= file_name %>.valid?
  success = @<%= file_name %> && @<%= file_name %>.valid?
<% else -%>
  success = @<%= file_name %> && @<%= file_name %>.save
<% end -%>
  if success && @<%= file_name %>.errors.empty?
    <% if !options[:include_activation] -%>
      # Protects against session fixation attacks, causes request forgery
      # protection if visitor resubmits an earlier form using back
      # button. Uncomment if you understand the tradeoffs.
      # reset session
      self.current_<%= file_name %> = @<%= file_name %> # !! now logged in
    <% end -%>redirect_back_or_default('/')
    flash[:notice] = "Thanks for signing up! We're sending you an email with
your activation code."
  else
    flash[:error] = "We couldn't set up that account, sorry. Please try
again, or contact an admin (link is above)."
    render :action => 'new'
  end
end
<% if options[:include_activation] %>
  def activate
    logout_keeping_session!
    <%= file_name %> = <%= class_name
%>.find_by_activation_code(params[:activation_code]) unless
params[:activation_code].blank?
    case
      when (!params[:activation_code].blank?) && <%= file_name %> && !<%=
file_name %>.active?
        <%= file_name %>.activate!
        flash[:notice] = "Signup complete! Please sign in to continue."
        redirect_to '/login'
      when params[:activation_code].blank?
        flash[:error] = "The activation code was missing. Please follow the URL
from your email."
        redirect_back_or_default('/')
      else
        flash[:error] = "We couldn't find a <%= file_name %> with that activation
code -- check your email? Or maybe you've already activated -- try signing in."
        redirect_back_or_default('/')
      end
    end
  end
<% end %><% if options[:stateful] %>
  def suspend
    @<%= file_name %>.suspend!
    redirect_to <%= model_controller_routing_name %>_path
  end
end

```

```

end

def unsuspend
  @<%= file_name %>.unsuspend!
  redirect_to <%= model_controller_routing_name %>_path
end

def destroy
  @<%= file_name %>.delete!
  redirect_to <%= model_controller_routing_name %>_path
end

def purge
  @<%= file_name %>.destroy
  redirect_to <%= model_controller_routing_name %>_path
end

# There's no page here to update or destroy a <%= file_name %>. If you add
those, be
# smart -- make sure you check that the visitor is authorized to do so, that
they
# supply their old password along with a new one to update it, etc.

protected
def find <%= file_name %>
  @<%= file_name %> = <%= class_name %>.find(params[:id])
end
<% end -%>
end
module <%= model_controller_class_name %>Helper

#
# Use this to wrap view elements that the user can't access.
# !! Note: this is an *interface*, not *security* feature !!
# You need to do all access control at the controller level.
#
# Example:
# <%%= if_authorized?(:index, User) do link_to('List all users',
users_path) end %> |
# <%%= if_authorized?(:edit, @user) do link_to('Edit this user',
edit_user_path) end %> |
# <%%= if_authorized?(:destroy, @user) do link_to 'Destroy', @user, :confirm
=> 'Are you sure?', :method => :delete end %>
#
#
def if_authorized?(action, resource, &block)
  if authorized?(action, resource)
    yield action, resource
  end
end

#
# Link to user's page ('<%= table_name %>/1')
#
# By default, their login is used as link text and link title (tooltip)

```

```

#
# Takes options
# * :content_text => 'Content text in place of <%= file_name %>.login',
escaped with
#   the standard h() function.
# * :content_method => :<%= file_name
%>_instance_method_to_call_for_content_text
# * :title_method => :<%= file_name
%>_instance_method_to_call_for_title_attribute
# * as well as link_to()'s standard options
#
# Examples:
#   link_to_<%= file_name %> @<%= file_name %>
#   # => <a href="/<%= table_name %>/3" title="barmy">barmy</a>
#
#   # if you've added a .name attribute:
#   content_tag :span, :class => :vcard do
#     (link_to_<%= file_name %> <%= file_name %>, :class => 'fn n',
:title_method => :login, :content_method => :name) +
#     ': ' + (content_tag :span, <%= file_name %>.email, :class =>
'email')
#   end
#   # => <span class="vcard"><a href="/<%= table_name %>/3" title="barmy"
class="fn n">Cyril Fotheringay-Phipps</a>: <span
class="email">barmy@blandings.com</span></span>
#
#   link_to_<%= file_name %> @<%= file_name %>, :content_text => 'Your user
page'
#   # => <a href="/<%= table_name %>/3" title="barmy" class="nickname">Your
user page</a>
#
def link_to_<%= file_name %>(<%= file_name %>, options={})
  raise "Invalid <%= file_name %>" unless <%= file_name %>
  options.reverse_merge! :content_method => :login, :title_method => :login,
:content_text => :nickname
  content_text = options.delete(:content_text)
  content_text ||= <%= file_name %>.send(options.delete(:content_method))
  options[:title] ||= <%= file_name %>.send(options.delete(:title_method))
  link_to h(content_text), <%= model_controller_routing_name.singularize
%>_path(<%= file_name %>), options
end

#
# Link to login page using remote ip address as link content
#
# The :title (and thus, tooltip) is set to the IP address
#
# Examples:
#   link_to_login_with_IP
#   # => <a href="/login" title="169.69.69.69">169.69.69.69</a>
#
#   link_to_login_with_IP :content_text => 'not signed in'
#   # => <a href="/login" title="169.69.69.69">not signed in</a>
#
def link_to_login_with_IP content_text=nil, options={}

```

```

    ip_addr          = request.remote_ip
    content_text     ||= ip_addr
    options.reverse_merge! :title => ip_addr
    if tag = options.delete(:tag)
      content_tag tag, h(content_text), options
    else
      link_to h(content_text), login_path, options
    end
  end
end

#
# Link to the current user's page (using link_to_<%= file_name %>) or to the
login page
# (using link_to_login_with_IP).
#
def link_to_current_<%= file_name %>(options={})
  if current_<%= file_name %>
    link_to_<%= file_name %> current_<%= file_name %>, options
  else
    content_text = options.delete(:content_text) || 'not signed in'
    # kill ignored options from link_to_<%= file_name %>
    [:content_method, :title_method].each{|opt| options.delete(opt)}
    link_to_login_with_IP content_text, options
  end
end

end

require File.dirname(__FILE__) + '/../spec_helper'
include ApplicationHelper
include <%= model_controller_class_name %>Helper

describe "<%= model_controller_class_name %>Helper.link_to_<%= file_name %>" do
  before do
    @<%= file_name %> = <%= class_name %>.new({
      :name => '<%= class_name %> Name',
      :login => '<%= file_name %>_name',
    })
    @<%= file_name %>.id = 1 # set non-attr_accessible specifically
  end

  it "should give an error on a nil <%= file_name %>" do
    lambda { link_to_<%= file_name %>(nil) }.should raise_error('Invalid <%=
file_name %>')
  end

  it "should link to the given <%= file_name %>" do
    link_to_<%= file_name %>(@<%= file_name %>).should have_tag("a[href='<%=
table_name %>/1']")
  end

  it "should use given link text if :content_text is specified" do
    link_to_<%= file_name %>(@<%= file_name %>, :content_text => 'Hello
there!').should have_tag("a", 'Hello there!')
  end
end

```

```

    it "should use the login as link text with no :content_method specified" do
      link_to_<%= file_name %>(@<%= file_name %>).should have_tag("a", '<%=
file_name %>_name')
    end

    it "should use the name as link text with :content_method => :name" do
      link_to_<%= file_name %>(@<%= file_name %>, :content_method => :name).should
have_tag("a", '<%= class_name %> Name')
    end

    it "should use the login as title with no :title_method specified" do
      link_to_<%= file_name %>(@<%= file_name %>).should have_tag("a[title='<%=
file_name %>_name']")
    end

    it "should use the name as link title with :content_method => :name" do
      link_to_<%= file_name %>(@<%= file_name %>, :title_method => :name).should
have_tag("a[title='<%= class_name %> Name']")
    end

    it "should have nickname as a class by default" do
      link_to_<%= file_name %>(@<%= file_name %>).should have_tag("a.nickname")
    end

    it "should take other classes and no longer have the nickname class" do
      result = link_to_<%= file_name %>(@<%= file_name %>, :class => 'foo bar')
      result.should have_tag("a.foo")
      result.should have_tag("a.bar")
    end
  end
end

describe "<%= model_controller_class_name %>Helper.link_to_signin_with_IP" do
  before do
    end

    it "should link to the signin_path" do
      link_to_signin_with_IP().should have_tag("a[href='/signin']")
    end

    it "should use given link text if :content_text is specified" do
      link_to_signin_with_IP(:content_text => 'Hello there!').should have_tag("a",
'Hello there!')
    end

    it "should use the login as link text with no :content_method specified" do
      link_to_signin_with_IP().should have_tag("a", '0.0.0.0')
    end

    it "should use the ip address as title" do
      link_to_signin_with_IP().should have_tag("a[title='0.0.0.0']")
    end

    it "should by default be like school in summer and have no class" do
      link_to_signin_with_IP().should_not have_tag("a.nickname")
    end
  end
end

```



```

    it "should have some class if you tell it to" do
      result = link_to_signin_with_IP(:class => 'foo bar')
      result.should have_tag("a.foo")
      result.should have_tag("a.bar")
    end
  end

  describe "<%= model_controller_class_name %>Helper.link_to_current_<%= file_name %>, When logged in" do
    fixtures :<%= table_name %>
    include AuthenticatedTestHelper
    before do
      login_as(:quentin)
    end

    it "should link to the given <%= file_name %>" do
      link_to_current_<%= file_name %>().should have_tag("a[href='<%= table_name %>/1']")
    end

    it "should use given link text if :content_text is specified" do
      link_to_current_user(:content_text => 'Hello there!').should have_tag("a", 'Hello there!')
    end

    it "should use the login as link text with no :content_method specified" do
      link_to_current_user().should have_tag("a", 'quentin')
    end

    it "should use the name as link text with :content_method => :name" do
      link_to_current_user(:content_method => :name).should have_tag("a", 'Quentin')
    end

    it "should use the login as title with no :title_method specified" do
      link_to_current_user().should have_tag("a[title='quentin']")
    end

    it "should use the name as link title with :content_method => :name" do
      link_to_current_user(:title_method => :name).should have_tag("a[title='Quentin']")
    end

    it "should have nickname as a class" do
      link_to_current_user().should have_tag("a.nickname")
    end

    it "should take other classes and no longer have the nickname class" do
      result = link_to_current_user(:class => 'foo bar')
      result.should have_tag("a.foo")
      result.should have_tag("a.bar")
    end
  end
end

```

```

describe "<%= model_controller_class_name %>Helper.link_to_current_user, When
logged out" do
  include AuthenticatedTestHelper
  before do
    end

  it "should link to the signin_path" do
    link_to_current_user().should have_tag("a[href='/signin']")
  end

  it "should use given link text if :content_text is specified" do
    link_to_current_user(:content_text => 'Hello there!').should have_tag("a",
'Hello there!')
  end

  it "should use the IP address as link text with no :content_method specified"
do
    link_to_current_user().should have_tag("a", '0.0.0.0')
  end

  it "should use the ip address as title" do
    link_to_current_user().should have_tag("a[title='0.0.0.0']")
  end

  it "should by default be like school in summer and have no class" do
    link_to_current_user().should_not have_tag("a.nickname")
  end

  it "should have some class if you tell it to" do
    result = link_to_current_user(:class => 'foo bar')
    result.should have_tag("a.foo")
    result.should have_tag("a.bar")
  end
end

class <%= class_name %>Observer < ActiveRecord::Observer
  def after_create(<%= file_name %>)
    <%= class_name %>Mailer.deliver_signup_notification(<%= file_name %>)
  end

  def after_save(<%= file_name %>)
    <% if options[:include_activation] %>
      <%= class_name %>Mailer.deliver_activation(<%= file_name %>) if <%=
file_name %>.recently_activated?
    <% end %>
  end
end

# A Site key gives additional protection against a dictionary attack if your
# DB is ever compromised. With no site key, we store
#   DB_password = hash(user_password, DB_user_salt)
# If your database were to be compromised you'd be vulnerable to a dictionary
# attack on all your stupid users' passwords. With a site key, we store
#   DB_password = hash(user_password, DB_user_salt, Code_site_key)

```

```

# That means an attacker needs access to both your site's code *and* its
# database to mount an "offline dictionary
attack.":http://www.dwheeler.com/secure-programs/Secure-Programs-HOWTO/web-
authentication.html
#
# It's probably of minor importance, but recommended by best practices: 'defense
# in depth'. Needless to say, if you upload this to github or the youtubes or
# otherwise place it in public view you'll kinda defeat the point. Your users'
# passwords are still secure, and the world won't end, but defense_in_depth -=
1.
#
# Please note: if you change this, all the passwords will be invalidated, so DO
# keep it someplace secure. Use the random value given or type in the lyrics to
# your favorite Jay-Z song or something; any moderately long, unpredictable
text.
REST_AUTH_SITE_KEY          = '<%= $rest_auth_site_key_from_generator %>'

# Repeated applications of the hash make brute force (even with a compromised
# database and site key) harder, and scale with Moore's law.
#
# bq. "To squeeze the most security out of a limited-entropy password or
# passphrase, we can use two techniques [salting and stretching]... that are
# so simple and obvious that they should be used in every password system.
# There is really no excuse not to use them." http://tinyurl.com/37lb73
# Practical Security (Ferguson & Scheier) p350
#
# A modest 10 foldings (the default here) adds 3ms. This makes brute forcing 10
# times harder, while reducing an app that otherwise serves 100 reqs/s to 78
signin
# reqs/s, an app that does 10reqs/s to 9.7 reqs/s
#
# More:
# * http://www.owasp.org/index.php/Hashing_Java
# * "An Illustrated Guide to Cryptographic
Hashes":http://www.unixwiz.net/techtips/iguide-crypto-hashes.html

REST_AUTH_DIGEST_STRETCHES = <%= $rest_auth_digest_stretches_from_generator %>
require File.dirname(__FILE__) + '<%= ('/..' *controller_class_nesting_depth) +
'../spec_helper' %>'
# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead
# Then, you can remove it from this and the units test.
include AuthenticatedTestHelper

#
# A test controller with and without access controls
#
class AccessControlTestController < ApplicationController
  before_filter :login_required, :only => :login_is_required
  def login_is_required
    respond_to do |format|
      @foo = { 'success' => params[:format] || 'no fmt given' }
      format.html do render :text => "success" end
      format.xml do render :xml => @foo, :status => :ok end
      format.json do render :json => @foo, :status => :ok end
    end
  end
end

```

```

end
def login_not_required
  respond_to do |format|
    @foo = { 'success' => params[:format] || 'no fmt given' }
    format.html do render :text => "success" end
    format.xml do render :xml => @foo, :status => :ok end
    format.json do render :json => @foo, :status => :ok end
  end
end
end

#
# Access Control
#

ACCESS_CONTROL_FORMATS = [
  ['', 'success'],
  ['xml', "<?xml version='1.0' encoding='UTF-8'>\n<hash>\n<success>xml</success>\n</hash>\n"],
  ['json', "{\"success\": \"json\"}"],
]
ACCESS_CONTROL_AM_I_LOGGED_IN = [
  [:i_am_logged_in, :quentin],
  [:i_am_not_logged_in, nil],
]
ACCESS_CONTROL_IS_LOGIN_REQD = [
  :login_not_required,
  :login_is_required,
]

describe AccessControlTestController do
  fixtures :<%= table_name %>
  before do
    # is there a better way to do this?
    ActionController::Routing::Routes.add_route '/login_is_required',
:controller => 'access_control_test', :action => 'login_is_required'
    ActionController::Routing::Routes.add_route '/login_not_required',
:controller => 'access_control_test', :action => 'login_not_required'
  end

  ACCESS_CONTROL_FORMATS.each do |format, success_text|
    ACCESS_CONTROL_AM_I_LOGGED_IN.each do |logged_in_status, <%= file_name
%>_login|
      ACCESS_CONTROL_IS_LOGIN_REQD.each do |login_reqd_status|
        describe "requesting #{format.blank? ? 'html' : format};
#{logged_in_status.to_s.humanize} and #{login_reqd_status.to_s.humanize}" do
          before do
            logout_keeping_session!
            @<%= file_name %> = format.blank? ? login_as(<%= file_name %>_login)
: authorize_as(<%= file_name %>_login)
            get login_reqd_status.to_s, :format => format
          end

          if ((login_reqd_status == :login_not_required) ||
              (login_reqd_status == :login_is_required && logged_in_status ==
:i_am_logged_in))
            it "succeeds" do
              response.should have_text(success_text)
            end
          end
        end
      end
    end
  end
end

```

```

        response.code.to_s.should == '200'
      end

      elsif (login_reqd_status == :login_is_required && logged_in_status ==
:i_am_not_logged_in)
        if ['html', ''].include? format
          it "redirects me to the log in page" do
            response.should redirect_to('/<%= controller_routing_path
%>/new')
          end
        else
          it "returns 'Access denied' and a 406 (Access Denied) status code"
do
            response.should have_text("HTTP Basic: Access denied.\n")
            response.code.to_s.should == '401'
          end
        end

        else
          warn "Oops no case for #{format} and
#{logged_in_status.to_s.humanize} and #{login_reqd_status.to_s.humanize}"
        end
      end # describe

    end
  end
end # cases

end
require File.dirname(__FILE__) + '<%= ('/..'*controller_class_nesting_depth) +
'../../spec_helper' %>'

# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead
# Then, you can remove it from this and the units test.
include AuthenticatedTestHelper
include AuthenticatedSystem
def action_name() end

describe <%= controller_class_name %>Controller do
  fixtures :<%= table_name %>

  before do
    # FIXME -- <%= controller_file_name %> controller not testing xml logins
    stub!(:authenticate_with_http_basic).and_return nil
  end
  describe "logout_killing_session!" do
    before do
      login_as :quentin
      stub!(:reset_session)
    end
    it 'resets the session' do should_receive(:reset_session);
logout_killing_session! end
    it 'kills my auth_token cookie' do should_receive(:kill_remember_cookie!);
logout_killing_session! end
  end
end

```

```

        it 'nils the current <%= file_name %>' do logout_killing_session!;
current_<%= file_name %>.should be_nil end
        it 'kills :<%= file_name %>_id session' do
            session.stub!(:[]=)
            session.should_receive(:[]=).with(:<%= file_name %>_id,
nil).at_least(:once)
            logout_killing_session!
        end
        it 'forgets me' do
            current_<%= file_name %>.remember_me
            current_<%= file_name %>.remember_token.should_not be_nil; current_<%=
file_name %>.remember_token_expires_at.should_not be_nil
            <%= class_name %>.find(1).remember_token.should_not be_nil; <%= class_name
%>.find(1).remember_token_expires_at.should_not be_nil
            logout_killing_session!
            <%= class_name %>.find(1).remember_token.should be_nil; <%= class_name
%>.find(1).remember_token_expires_at.should be_nil
        end
    end

describe "logout_keeping_session!" do
    before do
        login_as :quentin
        stub!(:reset_session)
    end
    it 'does not reset the session' do should_not_receive(:reset_session);
logout_keeping_session! end
    it 'kills my auth_token cookie' do should_receive(:kill_remember_cookie!);
logout_keeping_session! end
    it 'nils the current <%= file_name %>' do logout_keeping_session!;
current_<%= file_name %>.should be_nil end
    it 'kills :<%= file_name %>_id session' do
        session.stub!(:[]=)
        session.should_receive(:[]=).with(:<%= file_name %>_id,
nil).at_least(:once)
        logout_keeping_session!
    end
    it 'forgets me' do
        current_<%= file_name %>.remember_me
        current_<%= file_name %>.remember_token.should_not be_nil; current_<%=
file_name %>.remember_token_expires_at.should_not be_nil
        <%= class_name %>.find(1).remember_token.should_not be_nil; <%= class_name
%>.find(1).remember_token_expires_at.should_not be_nil
        logout_keeping_session!
        <%= class_name %>.find(1).remember_token.should be_nil; <%= class_name
%>.find(1).remember_token_expires_at.should be_nil
    end
end

describe 'When logged out' do
    it "should not be authorized?" do
        authorized?().should be_false
    end
end

```

```

#
# Cookie Login
#
describe "Logging in by cookie" do
  def set_remember_token token, time
    @<%= file_name %>[:remember_token] = token;
    @<%= file_name %>[:remember_token_expires_at] = time
    @<%= file_name %>.save!
  end
  before do
    @<%= file_name %> = <%= class_name %>.find(:first);
    set_remember_token 'hello!', 5.minutes.from_now
  end
  it 'logs in with cookie' do
    stub!(:cookies).and_return({ :auth_token => 'hello!' })
    logged_in?.should be_true
  end

  it 'fails cookie login with bad cookie' do
    should_receive(:cookies).at_least(:once).and_return({ :auth_token =>
'i_haxxor_joo' })
    logged_in?.should_not be_true
  end

  it 'fails cookie login with no cookie' do
    set_remember_token nil, nil
    should_receive(:cookies).at_least(:once).and_return({ })
    logged_in?.should_not be_true
  end

  it 'fails expired cookie login' do
    set_remember_token 'hello!', 5.minutes.ago
    stub!(:cookies).and_return({ :auth_token => 'hello!' })
    logged_in?.should_not be_true
  end
end

end

require File.dirname(__FILE__) + '<%= ('/..'*controller_class_nesting_depth) +
'../../spec_helper' %>'

# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead
# Then, you can remove it from this and the units test.
include AuthenticatedTestHelper

describe <%= controller_class_name %>Controller do
  fixtures :<%= table_name %>
  before do
    @<%= file_name %> = mock_<%= file_name %>
    @login_params = { :login => 'quentin', :password => 'test' }
    <%= class_name %>.stub!(:authenticate).with(@login_params[:login],
@login_params[:password]).and_return(@<%= file_name %>)
  end
  def do_create
    post :create, @login_params
  end
end

```

```

end
describe "on successful login," do
  [[:nil, nil, nil],
   [:expired, 'valid_token', 15.minutes.ago],
   [:different, 'i_haxxor_joo', 15.minutes.from_now],
   [:valid, 'valid_token', 15.minutes.from_now]
  ].each do |has_request_token, token_value, token_expiry|
    [true, false].each do |want_remember_me|
      describe "my request cookie token is #{has_request_token.to_s}," do
        describe "and ask #{want_remember_me ? 'to' : 'not to'} be remembered"
      end
    end
  end

  before do
    @ccookies = mock('cookies')
    controller.stub!(:cookies).and_return(@ccookies)
    @ccookies.stub!(:[]).with(:auth_token).and_return(token_value)
    @ccookies.stub!(:delete).with(:auth_token)
    @ccookies.stub!(:[]=)
    @<%= file_name %>.stub!(:remember_me)
    @<%= file_name %>.stub!(:refresh_token)
    @<%= file_name %>.stub!(:forget_me)
    @<%= file_name %>.stub!(:remember_token).and_return(token_value)
    @<%= file_name
%>.stub!(:remember_token_expires_at).and_return(token_expiry)
    @<%= file_name
%>.stub!(:remember_token?).and_return(has_request_token == :valid)
    if want_remember_me
      @login_params[:remember_me] = '1'
    else
      @login_params[:remember_me] = '0'
    end
  end

  it "kills existing login" do
    controller.should_receive(:logout_keeping_session!); do_create; end
    it "authorizes me" do do_create;
    controller.send(:authorized?).should be_true; end
    it "logs me in" do do_create;
    controller.send(:logged_in?).should be_true end
    it "greets me nicely" do do_create;
    response.flash[:notice].should =~ /success/i end
    it "sets/resets/expires cookie" do
    controller.should_receive(:handle_remember_cookie!).with(want_remember_me);
    do_create end
    it "sends a cookie" do
    controller.should_receive(:send_remember_cookie!); do_create end
    it 'redirects to the home page' do do_create; response.should
    redirect_to('/') end
    it "does not reset my session" do
    controller.should_not_receive(:reset_session).and_return nil; do_create end #
    change if you uncomment the reset_session path
    if (has_request_token == :valid)
      it 'does not make new token' do @<%= file_name
%>.should_not_receive(:remember_me); do_create end
      it 'does refresh token' do @<%= file_name
%>.should_receive(:refresh_token); do_create end
      it "sets an auth cookie" do do_create; end
    end
  end
end

```



```

        else
            if want_remember_me
                it 'makes a new token' do @<%= file_name
%>.should_receive(:remember_me); do_create end
                it "does not refresh token" do @<%= file_name
%>.should_not_receive(:refresh_token); do_create end
                it "sets an auth cookie" do do_create; end
            else
                it 'does not make new token' do @<%= file_name
%>.should_not_receive(:remember_me); do_create end
                it 'does not refresh token' do @<%= file_name
%>.should_not_receive(:refresh_token); do_create end
                it 'kills user token' do @<%= file_name
%>.should_receive(:forget_me); do_create end
            end
        end
    end # inner describe
end
end
end

describe "on failed login" do
    before do
        <%= class_name %>.should_receive(:authenticate).with(anything(),
anything()).and_return(nil)
        login_as :quentin
    end
    it 'logs out keeping session' do
controller.should_receive(:logout_keeping_session!); do_create end
    it 'flashes an error' do do_create; flash[:error].should =~
/Couldn't log you in as 'quentin'/ end
    it 'renders the log in page' do do_create; response.should
render_template('new') end
    it "doesn't log me in" do do_create;
controller.send(:logged_in?).should == false end
    it "doesn't send password back" do
        @login_params[:password] = 'FROBNOZZ'
        do_create
        response.should_not have_text(/FROBNOZZ/i)
    end
end
end

describe "on signout" do
    def do_destroy
        get :destroy
    end
    before do
        login_as :quentin
    end
    it 'logs me out' do
controller.should_receive(:logout_killing_session!); do_destroy end
    it 'redirects me to the home page' do do_destroy; response.should
be_redirect end
end
end

```

```

end

describe <%= controller_class_name %>Controller do
  describe "route generation" do
    it "should route the new <%= controller_controller_name %> action correctly"
  do
    route_for(:controller => '<%= controller_controller_name %>', :action =>
'new').should == "/login"
    end
    it "should route the create <%= controller_controller_name %> correctly" do
      route_for(:controller => '<%= controller_controller_name %>', :action =>
'create').should == "<%= controller_routing_path %>"
      end
    it "should route the destroy <%= controller_controller_name %> action
correctly" do
      route_for(:controller => '<%= controller_controller_name %>', :action =>
'destroy').should == "/logout"
      end
    end

    describe "route recognition" do
      it "should generate params from GET /login correctly" do
        params_from(:get, '/login').should == {:controller => '<%=
controller_controller_name %>', :action => 'new'}
        end
      it "should generate params from POST <%= controller_routing_path %>
correctly" do
        params_from(:post, '<%= controller_routing_path %>').should ==
{:controller => '<%= controller_controller_name %>', :action => 'create'}
        end
      it "should generate params from DELETE <%= controller_routing_path %>
correctly" do
        params_from(:delete, '/logout').should == {:controller => '<%=
controller_controller_name %>', :action => 'destroy'}
        end
      end

      describe "named routing" do
        before(:each) do
          get :new
        end
        it "should route <%= controller_routing_name %>_path() correctly" do
          <%= controller_routing_name %>_path().should == "<%=
controller_routing_path %>"
          end
        it "should route new_<%= controller_routing_name %>_path() correctly" do
          new_<%= controller_routing_name %>_path().should == "<%=
controller_routing_path %>/new"
          end
        end
      end
    end

    end

    require File.dirname(__FILE__) + '<%=
('/*model_controller_class_nesting_depth) + '/../spec_helper' %>'

```

```

# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead
# Then, you can remove it from this and the units test.
include AuthenticatedTestHelper

describe <%= model_controller_class_name %>Controller do
  fixtures :<%= table_name %>

  it 'allows signup' do
    lambda do
      create_<%= file_name %>
      response.should be_redirect
    end.should change(<%= class_name %>, :count).by(1)
  end

  <% if options[:stateful] %>
  it 'signs up user in pending state' do
    create_<%= file_name %>
    assigns(<%= file_name %>).reload
    assigns(<%= file_name %>).should be_pending
  end<% end %>

  <% if options[:include_activation] -%>
  it 'signs up user with activation code' do
    create_<%= file_name %>
    assigns(<%= file_name %>).reload
    assigns(<%= file_name %>).activation_code.should_not be_nil
  end<% end -%>

  it 'requires login on signup' do
    lambda do
      create_<%= file_name %>(:login => nil)
      assigns[<%= file_name %>].errors.on(:login).should_not be_nil
      response.should be_success
    end.should_not change(<%= class_name %>, :count)
  end

  it 'requires password on signup' do
    lambda do
      create_<%= file_name %>(:password => nil)
      assigns[<%= file_name %>].errors.on(:password).should_not be_nil
      response.should be_success
    end.should_not change(<%= class_name %>, :count)
  end

  it 'requires password confirmation on signup' do
    lambda do
      create_<%= file_name %>(:password_confirmation => nil)
      assigns[<%= file_name %>].errors.on(:password_confirmation).should_not
be_nil
      response.should be_success
    end.should_not change(<%= class_name %>, :count)
  end

  it 'requires email on signup' do

```

```

    lambda do
      create_<%= file_name %>(:email => nil)
      assigns[:<%= file_name %>].errors.on(:email).should_not be_nil
      response.should be_success
    end.should_not change(<%= class_name %>, :count)
  end

  <% if options[:include_activation] %>
  it 'activates user' do
    <%= class_name %>.authenticate('aaron', 'monkey').should be_nil
    get :activate, :activation_code => <%= table_name %>(:aaron).activation_code
    response.should redirect_to('/login')
    flash[:notice].should_not be_nil
    flash[:error ].should be_nil
    <%= class_name %>.authenticate('aaron', 'monkey').should == <%= table_name
%>(:aaron)
  end

  it 'does not activate user without key' do
    get :activate
    flash[:notice].should be_nil
    flash[:error ].should_not be_nil
  end

  it 'does not activate user with blank key' do
    get :activate, :activation_code => ''
    flash[:notice].should be_nil
    flash[:error ].should_not be_nil
  end

  it 'does not activate user with bogus key' do
    get :activate, :activation_code => 'i_haxxor_joo'
    flash[:notice].should be_nil
    flash[:error ].should_not be_nil
  end<% end %>

  def create_<%= file_name %>(options = {})
    post :create, :<%= file_name %> => { :login => 'quire', :email =>
'quire@example.com',
      :password => 'quire69', :password_confirmation => 'quire69'
    }.merge(options)
  end
end

describe <%= model_controller_class_name %>Controller do
  describe "route generation" do
    it "should route <%= model_controller_controller_name %>'s 'index' action
correctly" do
      route_for(:controller => '<%= model_controller_controller_name %>',
:action => 'index').should == "<%= model_controller_routing_path %>"
    end

    it "should route <%= model_controller_controller_name %>'s 'new' action
correctly" do

```

```

        route_for(:controller => '<%= model_controller_controller_name %>',
:action => 'new').should == "/signup"
    end

    it "should route {:controller => '<%= model_controller_controller_name %>',
:action => 'create'} correctly" do
        route_for(:controller => '<%= model_controller_controller_name %>',
:action => 'create').should == "/register"
    end

    it "should route <%= model_controller_controller_name %>'s 'show' action
correctly" do
        route_for(:controller => '<%= model_controller_controller_name %>',
:action => 'show', :id => '1').should == "<%= model_controller_routing_path
%>/1"
    end

    it "should route <%= model_controller_controller_name %>'s 'edit' action
correctly" do
        route_for(:controller => '<%= model_controller_controller_name %>',
:action => 'edit', :id => '1').should == "<%= model_controller_routing_path
%>/1/edit"
    end

    it "should route <%= model_controller_controller_name %>'s 'update' action
correctly" do
        route_for(:controller => '<%= model_controller_controller_name %>',
:action => 'update', :id => '1').should == "<%= model_controller_routing_path
%>/1"
    end

    it "should route <%= model_controller_controller_name %>'s 'destroy' action
correctly" do
        route_for(:controller => '<%= model_controller_controller_name %>',
:action => 'destroy', :id => '1').should == "<%= model_controller_routing_path
%>/1"
    end
end

describe "route recognition" do
    it "should generate params for <%= model_controller_controller_name %>'s
index action from GET <%= model_controller_routing_path %>" do
        params_from(:get, '<%= model_controller_routing_path %>').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'index'}
        params_from(:get, '<%= model_controller_routing_path %>.xml').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'index',
:format => 'xml'}
        params_from(:get, '<%= model_controller_routing_path %>.json').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'index',
:format => 'json'}
    end

    it "should generate params for <%= model_controller_controller_name %>'s new
action from GET <%= model_controller_routing_path %>" do

```

```

        params_from(:get, '/<%= model_controller_routing_path %>/new').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'new'}
        params_from(:get, '/<%= model_controller_routing_path %>/new.xml').should
== {:controller => '<%= model_controller_controller_name %>', :action => 'new',
:format => 'xml'}
        params_from(:get, '/<%= model_controller_routing_path %>/new.json').should
== {:controller => '<%= model_controller_controller_name %>', :action => 'new',
:format => 'json'}
    end

    it "should generate params for <%= model_controller_controller_name %>'s
create action from POST /<%= model_controller_routing_path %>" do
        params_from(:post, '/<%= model_controller_routing_path %>').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'create'}
        params_from(:post, '/<%= model_controller_routing_path %>.xml').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'create',
:format => 'xml'}
        params_from(:post, '/<%= model_controller_routing_path %>.json').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'create',
:format => 'json'}
    end

    it "should generate params for <%= model_controller_controller_name %>'s
show action from GET /<%= model_controller_routing_path %>/1" do
        params_from(:get, '/<%= model_controller_routing_path %>/1').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'show',
:id => '1'}
        params_from(:get, '/<%= model_controller_routing_path %>/1.xml').should
== {:controller => '<%= model_controller_controller_name %>', :action => 'show',
:id => '1', :format => 'xml'}
        params_from(:get, '/<%= model_controller_routing_path %>/1.json').should
== {:controller => '<%= model_controller_controller_name %>', :action => 'show',
:id => '1', :format => 'json'}
    end

    it "should generate params for <%= model_controller_controller_name %>'s
edit action from GET /<%= model_controller_routing_path %>/1/edit" do
        params_from(:get, '/<%= model_controller_routing_path %>/1/edit').should
== {:controller => '<%= model_controller_controller_name %>', :action => 'edit',
:id => '1'}
    end

    it "should generate params {:controller => '<%=
model_controller_controller_name %>', :action => update', :id => '1'} from PUT
/<%= model_controller_routing_path %>/1" do
        params_from(:put, '/<%= model_controller_routing_path %>/1').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'update',
:id => '1'}
        params_from(:put, '/<%= model_controller_routing_path %>/1.xml').should
== {:controller => '<%= model_controller_controller_name %>', :action =>
'update', :id => '1', :format => 'xml'}
        params_from(:put, '/<%= model_controller_routing_path %>/1.json').should
== {:controller => '<%= model_controller_controller_name %>', :action =>
'update', :id => '1', :format => 'json'}
    end

```

```

        it "should generate params for <%= model_controller_controller_name %>'s
destroy action from DELETE /<%= model_controller_routing_path %>/1" do
          params_from(:delete, '/<%= model_controller_routing_path %>/1').should ==
{:controller => '<%= model_controller_controller_name %>', :action => 'destroy',
:id => '1'}
          params_from(:delete, '/<%= model_controller_routing_path %>/1.xml').should
== {:controller => '<%= model_controller_controller_name %>', :action =>
'destroy', :id => '1', :format => 'xml'}
          params_from(:delete, '/<%= model_controller_routing_path
%>/1.json').should == {:controller => '<%= model_controller_controller_name %>',
:action => 'destroy', :id => '1', :format => 'json'}
        end
      end

      describe "named routing" do
        before(:each) do
          get :new
        end

        it "should route <%= model_controller_routing_name %>_path() to /<%=
model_controller_routing_path %>" do
          <%= model_controller_routing_name %>_path().should == "/<%=
model_controller_routing_path %>"
          formatted_<%= model_controller_routing_name %>_path(:format =>
'xml').should == "/<%= model_controller_routing_path %>.xml"
          formatted_<%= model_controller_routing_name %>_path(:format =>
'json').should == "/<%= model_controller_routing_path %>.json"
        end

        it "should route new_<%= model_controller_routing_name.singularize %>_path()
to /<%= model_controller_routing_path %>/new" do
          new_<%= model_controller_routing_name.singularize %>_path().should ==
"/<%= model_controller_routing_path %>/new"
          formatted_new_<%= model_controller_routing_name.singularize
%>_path(:format => 'xml').should == "/<%= model_controller_routing_path
%>/new.xml"
          formatted_new_<%= model_controller_routing_name.singularize
%>_path(:format => 'json').should == "/<%= model_controller_routing_path
%>/new.json"
        end

        it "should route <%= model_controller_routing_name.singularize %>_(:id =>
'1') to /<%= model_controller_routing_path %>/1" do
          <%= model_controller_routing_name.singularize %>_path(:id => '1').should
== "/<%= model_controller_routing_path %>/1"
          formatted_<%= model_controller_routing_name.singularize %>_path(:id =>
'1', :format => 'xml').should == "/<%= model_controller_routing_path %>/1.xml"
          formatted_<%= model_controller_routing_name.singularize %>_path(:id =>
'1', :format => 'json').should == "/<%= model_controller_routing_path %>/1.json"
        end

        it "should route edit_<%= model_controller_routing_name.singularize
%>_path(:id => '1') to /<%= model_controller_routing_path %>/1/edit" do

```

```

        edit_<%= model_controller_routing_name.singularize %>_path(:id =>
'1').should == "<%= model_controller_routing_path %>/1/edit"
    end
end

end

require File.dirname(__FILE__) + '<%=
('/..'*model_controller_class_nesting_depth) + '/../spec_helper' %>'
include ApplicationHelper
include <%= model_controller_class_name %>Helper
include AuthenticatedTestHelper

describe <%= model_controller_class_name %>Helper do
  before do
    @<%= file_name %> = mock_<%= file_name %>
  end

  describe "if_authorized" do
    it "yields if authorized" do
      should_receive(:authorized?).with('a','r').and_return(true)
      if_authorized?('a','r'){|action,resource| [action,resource,'hi'] }.should
== ['a','r','hi']
    end
    it "does nothing if not authorized" do
      should_receive(:authorized?).with('a','r').and_return(false)
      if_authorized?('a','r'){ 'hi' }.should be_nil
    end
  end

  describe "link_to_<%= file_name %>" do
    it "should give an error on a nil <%= file_name %>" do
      lambda { link_to_<%= file_name %>(nil) }.should raise_error('Invalid <%=
file_name %>')
    end
    it "should link to the given <%= file_name %>" do
      should_receive(:<%= model_controller_routing_name.singularize
%>_path).at_least(:once).and_return('<%= model_controller_file_path %>/1')
      link_to_<%= file_name %>(@<%= file_name %>).should have_tag("a[href='<%=
model_controller_file_path %>/1']")
    end
    it "should use given link text if :content_text is specified" do
      link_to_<%= file_name %>(@<%= file_name %>, :content_text => 'Hello
there!').should have_tag("a", 'Hello there!')
    end
    it "should use the login as link text with no :content_method specified" do
      link_to_<%= file_name %>(@<%= file_name %>).should have_tag("a",
'user_name')
    end
    it "should use the name as link text with :content_method => :name" do
      link_to_<%= file_name %>(@<%= file_name %>, :content_method =>
:name).should have_tag("a", 'U. Surname')
    end
    it "should use the login as title with no :title_method specified" do
      link_to_<%= file_name %>(@<%= file_name %>).should
have_tag("a[title='user_name']")
    end
  end
end

```



```

    end
    it "should use the name as link title with :content_method => :name" do
      link_to_<%= file_name %>(<%= file_name %>, :title_method => :name).should
have_tag("a[title='U. Surname']")
    end
    it "should have nickname as a class by default" do
      link_to_<%= file_name %>(<%= file_name %>).should have_tag("a.nickname")
    end
    it "should take other classes and no longer have the nickname class" do
      result = link_to_<%= file_name %>(<%= file_name %>, :class => 'foo bar')
      result.should have_tag("a.foo")
      result.should have_tag("a.bar")
    end
  end
end

describe "link_to_login_with_IP" do
  it "should link to the login_path" do
    link_to_login_with_IP().should have_tag("a[href='/login']")
  end
  it "should use given link text if :content_text is specified" do
    link_to_login_with_IP('Hello there!').should have_tag("a", 'Hello there!')
  end
  it "should use the login as link text with no :content_method specified" do
    link_to_login_with_IP().should have_tag("a", '0.0.0.0')
  end
  it "should use the ip address as title" do
    link_to_login_with_IP().should have_tag("a[title='0.0.0.0']")
  end
  it "should by default be like school in summer and have no class" do
    link_to_login_with_IP().should_not have_tag("a.nickname")
  end
  it "should have some class if you tell it to" do
    result = link_to_login_with_IP(nil, :class => 'foo bar')
    result.should have_tag("a.foo")
    result.should have_tag("a.bar")
  end
  it "should have some class if you tell it to" do
    result = link_to_login_with_IP(nil, :tag => 'abbr')
    result.should have_tag("abbr[title='0.0.0.0']")
  end
end

describe "link_to_current_<%= file_name %>, When logged in" do
  before do
    stub!(:current_<%= file_name %>).and_return(<%= file_name %>)
  end
  it "should link to the given <%= file_name %>" do
    should_receive(:<%= model_controller_routing_name.singularize
%>_path).at_least(:once).and_return('/<%= model_controller_file_path %>/1')
    link_to_current_<%= file_name %>().should have_tag("a[href='/<%=
model_controller_file_path %>/1']")
  end
  it "should use given link text if :content_text is specified" do
    link_to_current_<%= file_name %>(:content_text => 'Hello there!').should
have_tag("a", 'Hello there!')
  end
end

```

```

end
it "should use the login as link text with no :content_method specified" do
  link_to_current_<%= file_name %>().should have_tag("a", 'user_name')
end
it "should use the name as link text with :content_method => :name" do
  link_to_current_<%= file_name %>(:content_method => :name).should
have_tag("a", 'U. Surname')
end
it "should use the login as title with no :title_method specified" do
  link_to_current_<%= file_name %>().should have_tag("a[title='user_name']")
end
it "should use the name as link title with :content_method => :name" do
  link_to_current_<%= file_name %>(:title_method => :name).should
have_tag("a[title='U. Surname']")
end
it "should have nickname as a class" do
  link_to_current_<%= file_name %>().should have_tag("a.nickname")
end
it "should take other classes and no longer have the nickname class" do
  result = link_to_current_<%= file_name %>(:class => 'foo bar')
  result.should have_tag("a.foo")
  result.should have_tag("a.bar")
end
end

describe "link_to_current_<%= file_name %>, When logged out" do
  before do
    stub!(:current_<%= file_name %>).and_return(nil)
  end
  it "should link to the login_path" do
    link_to_current_<%= file_name %>().should have_tag("a[href='/login']")
  end
  it "should use given link text if :content_text is specified" do
    link_to_current_<%= file_name %>(:content_text => 'Hello there!').should
have_tag("a", 'Hello there!')
  end
  it "should use 'not signed in' as link text with no :content_method
specified" do
    link_to_current_<%= file_name %>().should have_tag("a", 'not signed in')
  end
  it "should use the ip address as title" do
    link_to_current_<%= file_name %>().should have_tag("a[title='0.0.0.0']")
  end
  it "should by default be like school in summer and have no class" do
    link_to_current_<%= file_name %>().should_not have_tag("a.nickname")
  end
  it "should have some class if you tell it to" do
    result = link_to_current_<%= file_name %>(:class => 'foo bar')
    result.should have_tag("a.foo")
    result.should have_tag("a.bar")
  end
end
end

end
# -*- coding: utf-8 -*-

```

```

require File.dirname(__FILE__) + '<%=
('/..' * model_controller_class_nesting_depth) + '/../spec_helper' %>'

# Be sure to include AuthenticatedTestHelper in spec/spec_helper.rb instead.
# Then, you can remove it from this and the functional test.
include AuthenticatedTestHelper

describe <%= class_name %> do
  fixtures :<%= table_name %>

  describe 'being created' do
    before do
      @<%= file_name %> = nil
      @creating_<%= file_name %> = lambda do
        @<%= file_name %> = create_<%= file_name %>
        violated "#{@<%= file_name %>.errors.full_messages.to_sentence}" if @<%=
file_name %>.new_record?
      end
    end

    it 'increments <%= class_name %>#count' do
      @creating_<%= file_name %>.should change(<%= class_name %>, :count).by(1)
    end
  <% if options[:include_activation] %>
    it 'initializes #activation_code' do
      @creating_<%= file_name %>.call
      @<%= file_name %>.reload
      @<%= file_name %>.activation_code.should_not be_nil
    end
  <% end %>
  <% if options[:stateful] %>
    it 'starts in pending state' do
      @creating_<%= file_name %>.call
      @<%= file_name %>.reload
      @<%= file_name %>.should be_pending
    end
  <% end %>
  end

  #
  # Validations
  #

  it 'requires login' do
    lambda do
      u = create_<%= file_name %>(:login => nil)
      u.errors.on(:login).should_not be_nil
    end.should_not change(<%= class_name %>, :count)
  end

  describe 'allows legitimate logins:' do
    ['123', '1234567890_234567890_234567890_234567890',
     'hello._there@funnychar.com'].each do |login_str|
      it "'#{login_str}'" do
        lambda do
          u = create_<%= file_name %>(:login => login_str)
          u.errors.on(:login).should be_nil
        end
      end
    end
  end
end

```

```

        end.should change(<%= class_name %>, :count).by(1)
      end
    end
  end
end
describe 'disallows illegitimate logins:' do
  ['12', '1234567890_234567890_234567890_234567890_', "tab\t", "newline\n",
    "Iv\tv´rnvçtiv¥nv†liz√†tiv[]n hasn't happened to ruby 1.8 yet",
    'semicolon;', 'quote"', 'tick\'', 'backtick`', 'percent%', 'plus+', 'space
  '].each do |login_str|
    it "'#{login_str}'" do
      lambda do
        u = create_<%= file_name %>(:login => login_str)
        u.errors.on(:login).should_not be_nil
        end.should_not change(<%= class_name %>, :count)
      end
    end
  end
end

it 'requires password' do
  lambda do
    u = create_<%= file_name %>(:password => nil)
    u.errors.on(:password).should_not be_nil
    end.should_not change(<%= class_name %>, :count)
  end
end

it 'requires password confirmation' do
  lambda do
    u = create_<%= file_name %>(:password_confirmation => nil)
    u.errors.on(:password_confirmation).should_not be_nil
    end.should_not change(<%= class_name %>, :count)
  end
end

it 'requires email' do
  lambda do
    u = create_<%= file_name %>(:email => nil)
    u.errors.on(:email).should_not be_nil
    end.should_not change(<%= class_name %>, :count)
  end
end

describe 'allows legitimate emails:' do
  ['foo@bar.com', 'foo@newschool-tld.museum', 'foo@twoletter-tld.de',
    'foo@nonexistant-tld.qq',
    'r@a.wk', '1234567890-234567890-234567890-234567890-234567890-
    234567890-234567890-234567890@gmail.com',
    'hello._there@funnychar.com', 'uucp%addr@gmail.com', 'hello+routing-
    str@gmail.com',
    'domain@can.haz.many.sub.doma.in', 'student.name@university.edu'
  ].each do |email_str|
    it "'#{email_str}'" do
      lambda do
        u = create_<%= file_name %>(:email => email_str)
        u.errors.on(:email).should be_nil
        end.should change(<%= class_name %>, :count).by(1)
      end
    end
  end
end

```

```

end
describe 'disallows illegitimate emails' do
  ['!!@nobadchars.com', 'foo@no-rep-dots..com', 'foo@badtld.xxx',
'foo@toolongtld.abcdefg',
  'Iv#tv^rnv&tiV%rnv#lizv#tiV[]n@hasnt.happened.to.email',
'need.domain.and.tld@de', "tab\t", "newline\n",
  'r@.wk', '1234567890-234567890-234567890-234567890-234567890-234567890-
234567890-234567890-234567890@gmail2.com',
  # these are technically allowed but not seen in practice:
  'uucpladdr@gmail.com', 'semicolon;@gmail.com', 'quote"@gmail.com',
'tick\'@gmail.com', 'backtick`@gmail.com', 'space @gmail.com',
'bracket<@gmail.com', 'bracket>@gmail.com'
  ].each do |email_str|
    it "#{email_str}" do
      lambda do
        u = create_<%= file_name %>(:email => email_str)
        u.errors.on(:email).should_not be_nil
        end.should_not change(<%= class_name %>, :count)
      end
    end
  end
end

describe 'allows legitimate names:' do
  ['Andre The Giant (7\'4", 520 lb.) -- has a posse',
  '',
'1234567890_234567890_234567890_234567890_234567890_234567890_234567890_23456789
0_234567890_234567890_',
  ].each do |name_str|
    it "#{name_str}" do
      lambda do
        u = create_<%= file_name %>(:name => name_str)
        u.errors.on(:name).should be_nil
        end.should change(<%= class_name %>, :count).by(1)
      end
    end
  end
end

describe "disallows illegitimate names" do
  ["tab\t", "newline\n",
'1234567890_234567890_234567890_234567890_234567890_234567890_234567890_23456789
0_234567890_234567890_',
  ].each do |name_str|
    it "#{name_str}" do
      lambda do
        u = create_<%= file_name %>(:name => name_str)
        u.errors.on(:name).should_not be_nil
        end.should_not change(<%= class_name %>, :count)
      end
    end
  end
end

it 'resets password' do
  <%= table_name %>(:quentin).update_attributes(:password => 'new password',
:password_confirmation => 'new password')
end

```

```

    <%= class_name %>.authenticate('quentin', 'new password').should == <%=
table_name %>(:quentin)
end

it 'does not rehash password' do
  <%= table_name %>(:quentin).update_attributes(:login => 'quentin2')
  <%= class_name %>.authenticate('quentin2', 'monkey').should == <%=
table_name %>(:quentin)
end

#
# Authentication
#

it 'authenticates <%= file_name %>' do
  <%= class_name %>.authenticate('quentin', 'monkey').should == <%= table_name
%>(:quentin)
end

it "doesn't authenticate <%= file_name %> with bad password" do
  <%= class_name %>.authenticate('quentin', 'invalid_password').should be_nil
end

if REST_AUTH_SITE_KEY.blank?
  # old-school passwords
  it "authenticates a user against a hard-coded old-style password" do
    <%= class_name %>.authenticate('old_password_holder', 'test').should == <%=
table_name %>(:old_password_holder)
  end
else
  it "doesn't authenticate a user against a hard-coded old-style password" do
    <%= class_name %>.authenticate('old_password_holder', 'test').should be_nil
  end

  # New installs should bump this up and set REST_AUTH_DIGEST_STRETCHES to give
  a 10ms encrypt time or so
  desired_encryption_expensiveness_ms = 0.1
  it "takes longer than #{desired_encryption_expensiveness_ms}ms to encrypt a
password" do
    test_reps = 100
    start_time = Time.now; test_reps.times{ <%= class_name
%>.authenticate('quentin', 'monkey'+rand.to_s) }; end_time = Time.now
    auth_time_ms = 1000 * (end_time - start_time)/test_reps
    auth_time_ms.should > desired_encryption_expensiveness_ms
  end
end

#
# Authentication
#

it 'sets remember token' do
  <%= table_name %>(:quentin).remember_me
  <%= table_name %>(:quentin).remember_token.should_not be_nil
  <%= table_name %>(:quentin).remember_token_expires_at.should_not be_nil

```

```

end

it 'unsets remember token' do
  <%= table_name %>(:quentin).remember_me
  <%= table_name %>(:quentin).remember_token.should_not be_nil
  <%= table_name %>(:quentin).forget_me
  <%= table_name %>(:quentin).remember_token.should be_nil
end

it 'remembers me for one week' do
  before = 1.week.from_now.utc
  <%= table_name %>(:quentin).remember_me_for 1.week
  after = 1.week.from_now.utc
  <%= table_name %>(:quentin).remember_token.should_not be_nil
  <%= table_name %>(:quentin).remember_token_expires_at.should_not be_nil
  <%= table_name %>(:quentin).remember_token_expires_at.between?(before,
after).should be_true
end

it 'remembers me until one week' do
  time = 1.week.from_now.utc
  <%= table_name %>(:quentin).remember_me_until time
  <%= table_name %>(:quentin).remember_token.should_not be_nil
  <%= table_name %>(:quentin).remember_token_expires_at.should_not be_nil
  <%= table_name %>(:quentin).remember_token_expires_at.should == time
end

it 'remembers me default two weeks' do
  before = 2.weeks.from_now.utc
  <%= table_name %>(:quentin).remember_me
  after = 2.weeks.from_now.utc
  <%= table_name %>(:quentin).remember_token.should_not be_nil
  <%= table_name %>(:quentin).remember_token_expires_at.should_not be_nil
  <%= table_name %>(:quentin).remember_token_expires_at.between?(before,
after).should be_true
end
<% if options[:stateful] %>
  it 'registers passive <%= file_name %>' do
    <%= file_name %> = create_<%= file_name %>(:password => nil,
:password_confirmation => nil)
    <%= file_name %>.should be_passive
    <%= file_name %>.update_attributes(:password => 'new password',
:password_confirmation => 'new password')
    <%= file_name %>.register!
    <%= file_name %>.should be_pending
  end

  it 'suspends <%= file_name %>' do
    <%= table_name %>(:quentin).suspend!
    <%= table_name %>(:quentin).should be_suspended
  end

  it 'does not authenticate suspended <%= file_name %>' do
    <%= table_name %>(:quentin).suspend!

```

```

    <%= class_name %>.authenticate('quentin', 'monkey').should_not == <%=
table_name %>(:quentin)
  end

  it 'deletes <%= file_name %>' do
    <%= table_name %>(:quentin).deleted_at.should be_nil
    <%= table_name %>(:quentin).delete!
    <%= table_name %>(:quentin).deleted_at.should_not be_nil
    <%= table_name %>(:quentin).should be_deleted
  end

  describe "being unsuspended" do
    fixtures :<%= table_name %>

    before do
      @<%= file_name %> = <%= table_name %>(:quentin)
      @<%= file_name %>.suspend!
    end

    it 'reverts to active state' do
      @<%= file_name %>.unsuspend!
      @<%= file_name %>.should be_active
    end

    it 'reverts to passive state if activation_code and activated_at are nil' do
      <%= class_name %>.update_all :activation_code => nil, :activated_at => nil
      @<%= file_name %>.reload.unsuspend!
      @<%= file_name %>.should be_passive
    end

    it 'reverts to pending state if activation_code is set and activated_at is
nil' do
      <%= class_name %>.update_all :activation_code => 'foo-bar', :activated_at
=> nil
      @<%= file_name %>.reload.unsuspend!
      @<%= file_name %>.should be_pending
    end
  end
end
<% end %>
protected
  def create_<%= file_name %>(options = {})
    record = <%= class_name %>.new({ :login => 'quire', :email =>
'quire@example.com', :password => 'quire69', :password_confirmation => 'quire69'
}.merge(options))
    record.<% if options[:stateful] %>register! if record.valid?<% else %>save<%
end %>
    record
  end
end
#!/usr/bin/env ruby
ENV["RAILS_ENV"] = "test"
require File.expand_path(File.dirname(__FILE__) + '/../config/environment")
require 'spec/rails/story_adapter'
require 'spec/story'

```



```

require File.expand_path(File.dirname(__FILE__) +
"/rest_auth_stories_helper.rb")

# Make visible for testing
ApplicationController.send(:public, :logged_in?, :current_user, :authorized?)

this_dir = File.dirname(__FILE__)
Dir[File.join(this_dir, "steps/*.rb")].each do |file|
  puts file.to_s
  require file
end

with_steps_for :ra_navigation, :ra_response, :ra_resource, :<%= file_name %> do
  story_files = Dir[File.join(this_dir, "<%= table_name %>", '*.story')]
  story_files.each do |file|
    run file, :type => RailsStory
  end
end

# If you have a global stories helper, move this line there:
include AuthenticatedTestHelper

# Most of the below came out of code from Ben Mabey
# http://www.benmabey.com/2008/02/04/rspec-plain-text-stories-webrat-chunky-
bacon/

# These allow exceptions to come through as opposed to being caught and having
non-helpful responses returned.
ActionController::Base.class_eval do
  def perform_action
    perform_action_without_rescue
  end
end

Dispatcher.class_eval do
  def self.failsafe_response(output, status, exception = nil)
    raise exception
  end
end

#
# Sugar for turning a story's attribute list into list, array, etc.
#
module ToFooFromStory
  def ToFooFromStory.fix_key key
    key.downcase.gsub(/\s+/, '_')
  end

  def ToFooFromStory.fix_value value
    return '' if !value
    value.strip!
    case
    when value =~ /^'(.*)'$/ then value = $1
    when value =~ /^"(.*)"$/ then value = $1
    when value == 'nil!' then value = nil
    when value == 'non-nil!' then value = be_nil
    when value =~ /^#\{(.*)\}$/ then value = eval($1)
    end
  end
end

```

```

    value
end
# Converts a key: value list found in the steps into a hash.
# Example:
#   ISBN: '0967539854' and comment: 'I love this book' and Quality rating: '4'
#   # => {"quality_rating"=>"4", "isbn"=>"0967539854", "comment"=>"I love this
book"}
def to_hash_from_story
  hsh = self.split(/,? and |, /).inject({}) do |hash_so_far, key_value|
    key, value = key_value.split(":")
    if !value then warn "Couldn't understand story '#{self}': only understood
up to the part '#{hash_so_far.to_yaml}'" end
    hash_so_far.merge(ToFooFromStory::fix_key(key) =>
ToFooFromStory::fix_value(value))
  end
end
# Coverts an attribute list found in the steps into an array
# Example:
#   login, email, updated_at, and gravatar
#   # => ['login', 'email', 'updated_at', 'gravatar']
def to_array_from_story
  self.split(/,? and |, /).map do |value|
    ToFooFromStory::fix_value(value)
  end
end
end
class String
  include ToFooFromStory
end

def instantiate(string)
  instance_variable_get("@#{string}")
end

#
# Spew response onto screen -- painful but scrolling >> debugger
#
def dump_response
  # note that @request and @template won't to_yaml and that @session includes
@cgi
  response_methods = response.instance_variables - ['@request',
'@template', '@cgi']
  request_methods = response.request.instance_variables -
['@session_options_with_string_keys', '@cgi', '@session']
  response_methods.map!{|attr| attr.gsub(/^@/, '')}.sort!
  request_methods.map!{|attr| attr.gsub(/^@/, '')}.sort!
  puts '', '*' * 75,
    response.instance_values.slice(*response_methods).to_yaml,
    "" * 75, '',
    response.request.instance_values.slice(*request_methods).to_yaml,
    "" * 75, ''
end
#
# Where to go
#

```

```

steps_for(:ra_navigation) do
  #
  # GET
  # Go to a given page.
  When "$actor goes to $path" do |actor, path|
    case path
    when 'the home page' then get '/'
    else
      get path
    end
  end
end

# POST -- Ex:
# When she creates a book with ISBN: '0967539854' and comment: 'I love this
book' and rating: '4'
# When she creates a singular session with login: 'reggie' and password:
'i_haxxor_joo'
# Since I'm not smrt enough to do it right, explicitly specify singular
resources
When %r{$actor creates an? $resource with $attributes} do |actor, resource,
attributes|
  attributes = attributes.to_hash_from_story
  if resource =~ %r{singular ([\w/]+)}
    resource = $1.downcase.singularize
    post "#{resource}", attributes
  else
    post "#{resource.downcase.pluralize}", { resource.downcase.singularize =>
attributes }
  end
end

# PUT
When %r{$actor asks to update '$resource' with $attributes} do |_, resource,
attributes|
  attributes = attributes.to_hash_from_story
  put "#{resource}", attributes
  dump_response
end

# DELETE -- Slap together the POST-form-as-fake-HTTP-DELETE submission
When %r{$actor asks to delete '$resource'} do |_, resource|
  post "#{resource.downcase.pluralize}", { :_method => :delete }
  dump_response
end

# Redirect --
# Rather than coding in get/get_via_redirect's and post/p_v_r's,
# let's just demand that in the story itself.
When "$actor follows that redirect!" do |actor|
  follow_redirect!
end
end

# The flexible code for resource testing came out of code from Ben Mabey
# http://www.benmabey.com/2008/02/04/rspec-plain-text-stories-webrat-chunky-
bacon/

```

```

steps_for(:ra_resource) do
  #
  # Construct resources
  #

  #
  # Build a resource as described, store it as an @instance variable. Ex:
  #   "Given a <%= file_name %> with login: 'mojojojo'"
  # produces a <%= class_name %> instance stored in @<%= file_name %> with
'mojojojo' as its login
  # attribute.
  #
  Given "a $resource instance with $attributes" do |resource, attributes|
    klass, instance, attributes = parse_resource_args resource, attributes
    instance = klass.new(attributes)
    instance.save!
    find_resource(resource, attributes).should_not be_nil
    keep_instance! resource, instance
  end

  #
  # Stuff attributes into a preexisting @resource
  #   "And the <%= file_name %> has thac0: 3"
  # takes the earlier-defined @<%= file_name %> instance and sets its thac0 to
'3'.
  #
  Given "the $resource has $attributes" do |resource, attributes|
    klass, instance, attributes = parse_resource_args resource, attributes
    attributes.each do |attr, val|
      instance.send("#{attr}=", val)
    end
    instance.save!
    find_resource(resource, attributes).should_not be_nil
    keep_instance! resource, instance
  end

  #
  # Destroy all for this resource
  #
  Given "no $resource with $attr: '$val' exists" do |resource, attr, val|
    klass, instance = parse_resource_args resource
    klass.destroy_all(attr.to_sym => val)
    instance = find_resource resource, attr.to_sym => val
    instance.should be_nil
    keep_instance! resource, instance
  end

  #
  # Then's for resources
  #

  # Resource like this DOES exist
  Then %r{an? $resource with $attributes should exist} do |resource, attributes|
    instance = find_resource resource, attributes
    instance.should_not be_nil
  end

```

```

    keep_instance! resource, instance
end
# Resource like this DOES NOT exist
Then %r{no $resource with $attributes should exist} do |resource, attributes|
    instance = find_resource resource, attributes
    instance.should be_nil
end

# Resource has attributes with given values
Then "the $resource should have $attributes" do |resource, attributes|
    klass, instance, attributes = parse_resource_args resource, attributes
    attributes.each do |attr, val|
        instance.send(attr).should == val
    end
end
# Resource attributes should / should not be nil
Then "the $resource's $attr should be nil" do |resource, attr|
    klass, instance = parse_resource_args resource
    instance.send(attr).should be_nil
end
Then "the $resource's $attr should not be nil" do |resource, attr|
    klass, instance = parse_resource_args resource
    instance.send(attr).should_not be_nil
end

#
# Bank each of the @resource's listed attributes for later.
#
Given "we try hard to remember the $resource's $attributes" do |resource,
attributes|
    attributes = attributes.to_array_from_story
    attributes.each do |attr|
        memorize_resource_value resource, attr
    end
end
#
# Bank each of the @resource's listed attributes for later.
#
Given "we don't remember anything about the past" do
    memorize_forget_all!
end

#
# Compare @resource.attr to its earlier-memorized value.
# Specify ' using method_name' (abs, to_s, &c) to coerce before comparing.
# For important and mysterious reasons, timestamps want to_i or to_s.
#
Then %r{the $resource\'s $attribute should stay the same(?: under $func)?} do
|resource, attr, func|
    klass, instance = parse_resource_args resource
    # Get the values
    old_value = recall_resource_value(resource, attr)
    new_value = instance.send(attr)
    # Transform each value, maybe, using value.func

```

```

    if func then new_value = new_value.send(func); old_value =
old_value.send(func) end
    # Compare
    old_value.should eql(new_value)
end

#
# Look for each for the given attributes in the page's text
#
Then "page should have the $resource's $attributes" do |resource, attributes|
  actual_resource = instantize(resource)
  attributes.split(/, and |, /).each do |attribute|
    response.should have_text(/#{actual_resource.send(attribute.strip.gsub("
","_"))})/)
  end
end
end

end

#
# Turn a resource name and a to_hash_from_story string like
# "attr: 'value', attr2: 'value2', ... , and attrN: 'valueN'"
# into
# * klass      -- the class matching that Resource
# * instance   -- the possibly-preexisting local instance value @resource
# * attributes -- a hash matching the given attribute-list string
#
def parse_resource_args resource, attributes=nil
  instance = instantize resource
  klass = resource.classify.constantize
  attributes = attributes.to_hash_from_story if attributes
  [klass, instance, attributes]
end

#
# Given a class name 'resource' and a hash of conditsion, find a model
#
def find_resource resource, conditions
  klass, instance = parse_resource_args resource
  conditions = conditions.to_hash_from_story unless (conditions.is_a? Hash)
  klass.find(:first, :conditions => conditions)
end

#
# Simple, brittle, useful: store the given resource's attribute
# so we can compare it later.
#
def memorize_resource_value resource, attr
  klass, instance = parse_resource_args resource
  value = instance.send(attr)
  @_memorized ||= {}
  @_memorized[resource] ||= {}
  @_memorized[resource][attr] = value
  value
end

```

```

def recall_resource_value resource, attr
  @_memorized[resource][attr]
end
def memorize_forget_all!
  @_memorized = {}
end

#
# Keep the object around in a local instance variable @resource.
#
# So, for instance,
#   klass, instance = parse_resource_args '<%= file_name %>'
#   instance = klass.new({login => 'me', password => 'monkey', ...})
#   keep_instance! resource, instance
# keeps the just-constructed <%= class_name %> model in the @<%= file_name %>
instance variable.
#
def keep_instance! resource, object
  instance_variable_set("@#{resource}", object)
end
#
# What you should see when you get there
#

steps_for(:ra_response) do
  #
  # Destinations. Ex:
  #   She should be at the new kids page
  #   Tarkin should be at the destroy alderaan page
  #   The visitor should be at the '/lolcats/download' form
  #   The visitor should be redirected to '/hi/mom'
  #
  # It doesn't know anything about actual routes -- it just
  # feeds its output to render_template or redirect_to
  #
  Then "$factor should be at $path" do |_, path|
    response.should render_template(grok_path(path))
  end

  Then "$factor should be redirected to $path" do |_, path|
    response.should redirect_to(grok_path(path))
  end

  Then "the page should look AWESOME" do
    response.should have_tag('head>title')
    response.should have_tag('h1')
    # response.should be_valid_xhtml
  end

  #
  # Tags
  #

  Then "the page should contain '$text'" do |_, text|
    response.should have_text(/#{text}/)
  end
end

```

```

end

# please note: this enforces the use of a <label> field
Then "$factor should see a <$container> containing a $attributes" do |_,
container, attributes|
  attributes = attributes.to_hash_from_story
  response.should have_tag(container) do
    attributes.each do |tag, label|
      case tag
      when "textfield" then with_tag "input[type='text']";
with_tag("label", label)
      when "password"  then with_tag "input[type='password']";
with_tag("label", label)
      when "submit"    then with_tag "input[type='submit'][value='#{label}']"
      else with_tag tag, label
      end
    end
  end
end

#
# Session, cookie variables
#
Then "$factor $token cookie should include $attrlist" do |_, token, attrlist|
  attrlist = attrlist.to_array_from_story
  cookies.include?(token).should be_true
  attrlist.each do |val|
    cookies[token].include?(val).should be_true
  end
end

Then "$factor $token cookie should exist but not include $attrlist" do |_,
token, attrlist|
  attrlist = attrlist.to_array_from_story
  cookies.include?(token).should be_true
  puts [cookies, attrlist, token].to_yaml
  attrlist.each do |val|
    cookies[token].include?(val).should_not be_true
  end
end

Then "$factor should have $an $token cookie" do |_, _, token|
  cookies[token].should_not be_blank
end
Then "$factor should not have $an $token cookie" do |_, _, token|
  cookies[token].should be_blank
end

Given "$factor has $an cookie jar with $attributes" do |_, _, attributes|
  attributes = attributes.to_hash_from_story
  attributes.each do |attr, val|
    cookies[attr] = val
  end
end
Given "$factor session store has no $attrlist" do |_, attrlist|

```



```

    attrlist = attrlist.to_array_from_story
    attrlist.each do |attr|
      # Note that the comparison passes through 'to_s'
      session[attr.to_sym] = nil
    end
  end

  Then "$factor session store should have $attributes" do |_, attributes|
    attributes = attributes.to_hash_from_story
    attributes.each do |attr, val|
      # Note that the comparison passes through 'to_s'
      session[attr.to_sym].to_s.should eql(val)
    end
  end

  Then "$factor session store should not have $attrlist" do |_, attrlist|
    attrlist = attrlist.to_array_from_story
    attrlist.each do |attr|
      session[attr.to_sym].blank?.should be_true
    end
  end

  #
  # Flash messages
  #

  Then "$factor should see $an $notice message '$message'" do |_, _, notice,
message|
    response.should have_flash(notice, %r{#{message}})
  end

  Then "$factor should not see $an $notice message '$message'" do |_, _, notice,
message|
    response.should_not have_flash(notice, %r{#{message}})
  end

  Then "$factor should see no messages" do |_|
    ['error', 'warning', 'notice'].each do |notice|
      response.should_not have_flash(notice)
    end
  end

  RE_POLITENESS = /(?:please|sorry|thank(?:s| you))/i
  Then %r{we should be polite about it} do
    response.should have_tag("div.error,div.notice", RE_POLITENESS)
  end
  Then %r{we should not even be polite about it} do
    response.should_not have_tag("div.error,div.notice", RE_POLITENESS)
  end

  #
  # Resource's attributes
  #
  # "Then page should have the $resource's $attributes" is in resource_steps

```

```

# helpful debug step
Then "we dump the response" do
  dump_response
end
end

def have_flash notice, *args
  have_tag("div.#{notice}", *args)
end

RE_PRETTY_RESOURCE = /the (index|show|new|create|edit|update|destroy) (\w+)
(page|form)/i
RE_THE_FOO_PAGE    = /the '?([']*)'? (page|form)/i
RE_QUOTED_PATH     = /^'([']*)'$/i
def grok_path path
  path.gsub(/\s+again$/, '') # strip trailing ' again'
  case
  when path == 'the home page' then dest = '/'
  when path =~ RE_PRETTY_RESOURCE then dest = template_for $1, $2
  when path =~ RE_THE_FOO_PAGE then dest = $1
  when path =~ RE_QUOTED_PATH then dest = $1
  else dest = path
  end
  dest
end

# turns 'new', 'road bikes' into 'road_bikes/new'
# note that it's "action resource"
def template_for(action, resource)
  "#{resource.gsub(" ", "_")}/#{action}"
end

require File.dirname(__FILE__) + '/../helper'

RE_<%= file_name.capitalize %> = %r{(?:the )? *(\w+ )? *}
RE_<%= file_name.capitalize %>_TYPE = %r{(?: *(\w+)? )? *}
steps_for(:<%= file_name %>) do

  #
  # Setting
  #

  Given "an anonymous <%= file_name %>" do
    log_out!
  end

  Given "$an <%= file_name %>_type <%= file_name %> with $attributes" do |_,
    <%= file_name %>_type, attributes|
    create_<%= file_name %>! <%= file_name %>_type,
    attributes.to_hash_from_story
  end

  Given "$an <%= file_name %>_type <%= file_name %> named '$login'" do |_, <%=
    file_name %>_type, login|

```

```

    create_<%= file_name %>! <%= file_name %>_type, named_<%= file_name
%>(login)
    end

    Given "$an $<%= file_name %>_type <%= file_name %> logged in as '$login'" do
|_, <%= file_name %>_type, login|
        create_<%= file_name %>! <%= file_name %>_type, named_<%= file_name
%>(login)
        log_in_<%= file_name %>!
    end

    Given "$actor is logged in" do |_, login|
        log_in_<%= file_name %>! @<%= file_name %>_params || named_<%= file_name
%>(login)
    end

    Given "there is no $<%= file_name %>_type <%= file_name %> named '$login'" do
|_, login|
        @<%= file_name %> = <%= class_name %>.find_by_login(login)
        @<%= file_name %>.destroy! if @<%= file_name %>
        @<%= file_name %>.should be_nil
    end

#
# Actions
#
When "$actor logs out" do
    log_out
end

When "$actor registers an account as the preloaded '$login'" do |_, login|
    <%= file_name %> = named_<%= file_name %>(login)
    <%= file_name %>['password_confirmation'] = <%= file_name %>['password']
    create_<%= file_name %> <%= file_name %>
end

When "$actor registers an account with $attributes" do |_, attributes|
    create_<%= file_name %> attributes.to_hash_from_story
end
<% if options[:include_activation] %>
    When "$actor activates with activation code $attributes" do |_,
activation_code|
        activation_code = '' if activation_code == 'that is blank'
        activate
    end<% end %>

When "$actor logs in with $attributes" do |_, attributes|
    log_in_<%= file_name %> attributes.to_hash_from_story
end

#
# Result
#
Then "$actor should be invited to sign in" do |_|
    response.should render_template('<%= controller_file_path %>/new')

```

```

end

Then "$factor should not be logged in" do |_|
  controller.logged_in?.should_not be_true
end

Then "$login should be logged in" do |login|
  controller.logged_in?.should be_true
  controller.current_<%= file_name %>.should === @<%= file_name %>
  controller.current_<%= file_name %>.login.should == login
end

end

def named_<%= file_name %> login
  <%= file_name %>_params = {
    'admin' => {'id' => 1, 'login' => 'addie', 'password' => '1234addie',
    'email' => 'admin@example.com', },
    'oona' => { 'login' => 'oona', 'password' => '1234oona',
    'email' => 'unactivated@example.com'},
    'reggie' => { 'login' => 'reggie', 'password' => 'monkey',
    'email' => 'registered@example.com' },
  }
  <%= file_name %>_params[login.downcase]
end

#
# <%= class_name %> account actions.
#
# The ! methods are 'just get the job done'. It's true, they do some testing of
# their own -- thus un-DRY'ing tests that do and should live in the <%=
file_name %> account
# stories -- but the repetition is ultimately important so that a faulty test
setup
# fails early.
#

def log_out
  get '/<%= controller_file_path %>/destroy'
end

def log_out!
  log_out
  response.should redirect_to('/')
  follow_redirect!
end

def create_<%= file_name %>(<%= file_name %>_params={})
  @<%= file_name %>_params ||= <%= file_name %>_params
  post "<%= model_controller_file_path %>", :<%= file_name %> => <%= file_name
%>_params
  @<%= file_name %> = <%= class_name %>.find_by_login(<%= file_name
%>_params['login'])
end

```

```

def create_<%= file_name %>!(<%= file_name %>_type, <%= file_name %>_params)
  <%= file_name %>_params['password_confirmation'] ||= <%= file_name
%>_params['password'] ||= <%= file_name %>_params['password']
  create_<%= file_name %> <%= file_name %>_params
  response.should redirect_to('/')
  follow_redirect!
<% if options[:include_activation] %>
  # fix the <%= file_name %>'s activation status
  activate_<%= file_name %>! if <%= file_name %>_type == 'activated'<% end %>
end

<% if options[:include_activation] %>
def activate_<%= file_name %> activation_code=nil
  activation_code = @<%= file_name %>.activation_code if activation_code.nil?
  get "/activate/#{activation_code}"
end

def activate_<%= file_name %>! *args
  activate_<%= file_name %> *args
  response.should redirect_to('/login')
  follow_redirect!
  response.should have_flash("notice", /Signup complete!/)
end<% end %>

def log_in_<%= file_name %> <%= file_name %>_params=nil
  @<%= file_name %>_params ||= <%= file_name %>_params
  <%= file_name %>_params ||= @<%= file_name %>_params
  post "<%= controller_routing_path %>", <%= file_name %>_params
  @<%= file_name %> = <%= class_name %>.find_by_login(<%= file_name
%>_params['login'])
  controller.current_<%= file_name %>
end

def log_in_<%= file_name %>! *args
  log_in_<%= file_name %> *args
  response.should redirect_to('/')
  follow_redirect!
  response.should have_flash("notice", /Logged in successfully/)
end
require File.dirname(__FILE__) + '/../test_helper'
require '<%= controller_file_name %>_controller'

# Re-raise errors caught by the controller.
class <%= controller_class_name %>Controller; def rescue_action(e) raise e end;
end

class <%= controller_class_name %>ControllerTest < ActionController::TestCase
  # Be sure to include AuthenticatedTestHelper in test/test_helper.rb instead
  # Then, you can remove it from this and the units test.
  include AuthenticatedTestHelper

  fixtures :<%= table_name %>

  def test_should_login_and_redirect
    post :create, :login => 'quentin', :password => 'monkey'

```

```

    assert session[:<%= file_name %>_id]
    assert_response :redirect
end

def test_should_fail_login_and_not_redirect
  post :create, :login => 'quentin', :password => 'bad password'
  assert_nil session[:<%= file_name %>_id]
  assert_response :success
end

def test_should_logout
  login_as :quentin
  get :destroy
  assert_nil session[:<%= file_name %>_id]
  assert_response :redirect
end

def test_should_remember_me
  @request.cookies["auth_token"] = nil
  post :create, :login => 'quentin', :password => 'monkey', :remember_me =>
"1"
  assert_not_nil @response.cookies["auth_token"]
end

def test_should_not_remember_me
  @request.cookies["auth_token"] = nil
  post :create, :login => 'quentin', :password => 'monkey', :remember_me =>
"0"
  puts @response.cookies["auth_token"]
  assert @response.cookies["auth_token"].blank?
end

def test_should_delete_token_on_logout
  login_as :quentin
  get :destroy
  assert @response.cookies["auth_token"].blank?
end

def test_should_login_with_cookie
  <%= table_name %>(:quentin).remember_me
  @request.cookies["auth_token"] = cookie_for(:quentin)
  get :new
  assert @controller.send(:logged_in?)
end

def test_should_fail_expired_cookie_login
  <%= table_name %>(:quentin).remember_me
  <%= table_name %>(:quentin).update_attribute :remember_token_expires_at,
5.minutes.ago
  @request.cookies["auth_token"] = cookie_for(:quentin)
  get :new
  assert !@controller.send(:logged_in?)
end

def test_should_fail_cookie_login

```

```

    <%= table_name %>(:quentin).remember_me
    @request.cookies["auth_token"] = auth_token('invalid_auth_token')
    get :new
    assert !@controller.send(:logged_in?)
end

protected
  def auth_token(token)
    CGI::Cookie.new('name' => 'auth_token', 'value' => token)
  end

  def cookie_for(<%= file_name %>)
    auth_token <%= table_name %>(<%= file_name %>).remember_token
  end
end

require File.dirname(__FILE__) + '/../test_helper'
require '<%= file_name %>_mailer'

class <%= class_name %>MailerTest < Test::Unit::TestCase
  FIXTURES_PATH = File.dirname(__FILE__) + '/../fixtures'
  CHARSET = "utf-8"

  include ActionMailer::Quoting

  def setup
    ActionMailer::Base.delivery_method = :test
    ActionMailer::Base.perform_deliveries = true
    ActionMailer::Base.deliveries = []

    @expected = TMail::Mail.new
    @expected.set_content_type "text", "plain", { "charset" => CHARSET }
  end

  def test_dummy_test
    #do nothing
  end

  private
    def read_fixture(action)
      IO.readlines("#{FIXTURES_PATH}/<%= file_name %>_mailer/#{action}")
    end

    def encode(subject)
      quoted_printable(subject, CHARSET)
    end
  end

  require File.dirname(__FILE__) + '/../test_helper'
  require '<%= model_controller_file_name %>_controller'

  # Re-raise errors caught by the controller.
  class <%= model_controller_class_name %>Controller; def rescue_action(e) raise e
  end; end

  class <%= model_controller_class_name %>ControllerTest <
    ActionController::TestCase

```

```

# Be sure to include AuthenticatedTestHelper in test/test_helper.rb instead
# Then, you can remove it from this and the units test.
include AuthenticatedTestHelper

fixtures :<%= table_name %>

def test_should_allow_signup
  assert_difference '<%= class_name %>.count' do
    create_<%= file_name %>
    assert_response :redirect
  end
end

def test_should_require_login_on_signup
  assert_no_difference '<%= class_name %>.count' do
    create_<%= file_name %>(:login => nil)
    assert assigns(:<%= file_name %>).errors.on(:login)
    assert_response :success
  end
end

def test_should_require_password_on_signup
  assert_no_difference '<%= class_name %>.count' do
    create_<%= file_name %>(:password => nil)
    assert assigns(:<%= file_name %>).errors.on(:password)
    assert_response :success
  end
end

def test_should_require_password_confirmation_on_signup
  assert_no_difference '<%= class_name %>.count' do
    create_<%= file_name %>(:password_confirmation => nil)
    assert assigns(:<%= file_name %>).errors.on(:password_confirmation)
    assert_response :success
  end
end

def test_should_require_email_on_signup
  assert_no_difference '<%= class_name %>.count' do
    create_<%= file_name %>(:email => nil)
    assert assigns(:<%= file_name %>).errors.on(:email)
    assert_response :success
  end
end

<% if options[:stateful] %>
def test_should_sign_up_user_in_pending_state
  create_<%= file_name %>
  assigns(:<%= file_name %>).reload
  assert assigns(:<%= file_name %>).pending?
end<% end %>

<% if options[:include_activation] %>
def test_should_sign_up_user_with_activation_code
  create_<%= file_name %>
  assigns(:<%= file_name %>).reload
end

```



```

    assert_not_nil assigns(<%= file_name %>).activation_code
end

def test_should_activate_user
  assert_nil <%= class_name %>.authenticate('aaron', 'test')
  get :activate, :activation_code => <%= table_name %>(:aaron).activation_code
  assert_redirected_to '/<%= controller_routing_path %>/new'
  assert_not_nil flash[:notice]
  assert_equal <%= table_name %>(:aaron), <%= class_name
%>.authenticate('aaron', 'monkey')
end

def test_should_not_activate_user_without_key
  get :activate
  assert_nil flash[:notice]
rescue ActionController::RoutingError
  # in the event your routes deny this, we'll just bow out gracefully.
end

def test_should_not_activate_user_with_blank_key
  get :activate, :activation_code => ''
  assert_nil flash[:notice]
rescue ActionController::RoutingError
  # well played, sir
end<% end %>

protected
  def create_<%= file_name %>(options = {})
    post :create, :<%= file_name %> => { :login => 'quire', :email =>
'quire@example.com',
      :password => 'quire69', :password_confirmation => 'quire69'
    }.merge(options)
  end
end

require File.dirname(__FILE__) + '/../test_helper'

class <%= class_name %>Test < ActiveSupport::TestCase
  # Be sure to include AuthenticatedTestHelper in test/test_helper.rb instead.
  # Then, you can remove it from this and the functional test.
  include AuthenticatedTestHelper
  fixtures :<%= table_name %>

  def test_should_create_<%= file_name %>
    assert_difference '<%= class_name %>.count' do
      <%= file_name %> = create_<%= file_name %>
      assert !<%= file_name %>.new_record?, "#{<%= file_name
%>.errors.full_messages.to_sentence}"
    end
  end

  <% if options[:include_activation] %>
  def test_should_initialize_activation_code_upon_creation
    <%= file_name %> = create_<%= file_name %>
    <%= file_name %>.reload
    assert_not_nil <%= file_name %>.activation_code
  end
end

```

```

<% end %><% if options[:stateful] %>
  def test_should_create_and_start_in_pending_state
    <%= file_name %> = create_<%= file_name %>
    <%= file_name %>.reload
    assert <%= file_name %>.pending?
  end

<% end %>

  def test_should_require_login
    assert_no_difference '<%= class_name %>.count' do
      u = create_<%= file_name %>(:login => nil)
      assert u.errors.on(:login)
    end
  end

  def test_should_require_password
    assert_no_difference '<%= class_name %>.count' do
      u = create_<%= file_name %>(:password => nil)
      assert u.errors.on(:password)
    end
  end

  def test_should_require_password_confirmation
    assert_no_difference '<%= class_name %>.count' do
      u = create_<%= file_name %>(:password_confirmation => nil)
      assert u.errors.on(:password_confirmation)
    end
  end

  def test_should_require_email
    assert_no_difference '<%= class_name %>.count' do
      u = create_<%= file_name %>(:email => nil)
      assert u.errors.on(:email)
    end
  end

  def test_should_reset_password
    <%= table_name %>(:quentin).update_attributes(:password => 'new password',
:password_confirmation => 'new password')
    assert_equal <%= table_name %>(:quentin), <%= class_name
%>.authenticate('quentin', 'new password')
  end

  def test_should_not_rehash_password
    <%= table_name %>(:quentin).update_attributes(:login => 'quentin2')
    assert_equal <%= table_name %>(:quentin), <%= class_name
%>.authenticate('quentin2', 'monkey')
  end

  def test_should_authenticate_<%= file_name %>
    assert_equal <%= table_name %>(:quentin), <%= class_name
%>.authenticate('quentin', 'monkey')
  end

  def test_should_set_remember_token

```

```

    <%= table_name %>(:quentin).remember_me
    assert_not_nil <%= table_name %>(:quentin).remember_token
    assert_not_nil <%= table_name %>(:quentin).remember_token_expires_at
end

def test_should_unset_remember_token
  <%= table_name %>(:quentin).remember_me
  assert_not_nil <%= table_name %>(:quentin).remember_token
  <%= table_name %>(:quentin).forget_me
  assert_nil <%= table_name %>(:quentin).remember_token
end

def test_should_remember_me_for_one_week
  before = 1.week.from_now.utc
  <%= table_name %>(:quentin).remember_me_for 1.week
  after = 1.week.from_now.utc
  assert_not_nil <%= table_name %>(:quentin).remember_token
  assert_not_nil <%= table_name %>(:quentin).remember_token_expires_at
  assert <%= table_name %>(:quentin).remember_token_expires_at.between?(before, after)
end

def test_should_remember_me_until_one_week
  time = 1.week.from_now.utc
  <%= table_name %>(:quentin).remember_me_until time
  assert_not_nil <%= table_name %>(:quentin).remember_token
  assert_not_nil <%= table_name %>(:quentin).remember_token_expires_at
  assert_equal <%= table_name %>(:quentin).remember_token_expires_at, time
end

def test_should_remember_me_default_two_weeks
  before = 2.weeks.from_now.utc
  <%= table_name %>(:quentin).remember_me
  after = 2.weeks.from_now.utc
  assert_not_nil <%= table_name %>(:quentin).remember_token
  assert_not_nil <%= table_name %>(:quentin).remember_token_expires_at
  assert <%= table_name %>(:quentin).remember_token_expires_at.between?(before, after)
end

<% if options[:stateful] %>
  def test_should_register_passive_<%= file_name %>
    <%= file_name %> = create_<%= file_name %>(:password => nil,
:password_confirmation => nil)
    assert <%= file_name %>.passive?
    <%= file_name %>.update_attributes(:password => 'new password',
:password_confirmation => 'new password')
    <%= file_name %>.register!
    assert <%= file_name %>.pending?
  end

  def test_should_suspend_<%= file_name %>
    <%= table_name %>(:quentin).suspend!
    assert <%= table_name %>(:quentin).suspended?
  end
end

```

```

def test_suspended_<%= file_name %>_should_not_authenticate
  <%= table_name %>(:quentin).suspend!
  assert_not_equal <%= table_name %>(:quentin), <%= class_name
%>.authenticate('quentin', 'test')
end

def test_should_unsuspend_<%= file_name %>_to_active_state
  <%= table_name %>(:quentin).suspend!
  assert <%= table_name %>(:quentin).suspended?
  <%= table_name %>(:quentin).unsuspend!
  assert <%= table_name %>(:quentin).active?
end

def test_should_unsuspend_<%= file_name
%>_with_nil_activation_code_and_activated_at_to_passive_state
  <%= table_name %>(:quentin).suspend!
  <%= class_name %>.update_all :activation_code => nil, :activated_at => nil
  assert <%= table_name %>(:quentin).suspended?
  <%= table_name %>(:quentin).reload.unsuspend!
  assert <%= table_name %>(:quentin).passive?
end

def test_should_unsuspend_<%= file_name
%>_with_activation_code_and_nil_activated_at_to_pending_state
  <%= table_name %>(:quentin).suspend!
  <%= class_name %>.update_all :activation_code => 'foo-bar', :activated_at =>
nil
  assert <%= table_name %>(:quentin).suspended?
  <%= table_name %>(:quentin).reload.unsuspend!
  assert <%= table_name %>(:quentin).pending?
end

def test_should_delete_<%= file_name %>
  assert_nil <%= table_name %>(:quentin).deleted_at
  <%= table_name %>(:quentin).delete!
  assert_not_nil <%= table_name %>(:quentin).deleted_at
  assert <%= table_name %>(:quentin).deleted?
end
<% end %>
protected
  def create_<%= file_name %>(options = {})
    record = <%= class_name %>.new({ :login => 'quire', :email =>
'quire@example.com', :password => 'quire69', :password_confirmation => 'quire69'
}.merge(options))
    record.<% if options[:stateful] %>register! if record.valid?<% else %>save<%
end %>
    record
  end
end
require 'aasm'
require File.dirname(__FILE__) + '/lib/authentication'
require File.dirname(__FILE__) + '/lib/authentication/by_password'
require File.dirname(__FILE__) + '/lib/authentication/by_cookie_token'
puts IO.read(File.join(File.dirname(__FILE__), 'README'))# -*- coding: mule-utf-
8 -*-

```

```

module Authentication
  module ByCookieToken
    # Stuff directives into including module
    def self.included(recipient)
      recipient.extend(ModelClassMethods)
      recipient.class_eval do
        include ModelInstanceMethods
      end
    end
  end

  #
  # Class Methods
  #
  module ModelClassMethods
    end # class methods

  #
  # Instance Methods
  #
  module ModelInstanceMethods
    def remember_token?
      (!remember_token.blank?) &&
        remember_token_expires_at && (Time.now.utc <
remember_token_expires_at.utc)
    end

    # These create and unset the fields required for remembering users between
browser closes
    def remember_me
      remember_me_for 2.weeks
    end

    def remember_me_for(time)
      remember_me_until time.from_now.utc
    end

    def remember_me_until(time)
      self.remember_token_expires_at = time
      self.remember_token            = self.class.make_token
      save(false)
    end

    # refresh token (keeping same expires_at) if it exists
    def refresh_token
      if remember_token?
        self.remember_token = self.class.make_token
        save(false)
      end
    end

    #
    # Deletes the server-side record of the authentication token. The
    # client-side (browser cookie) and server-side (this remember_token) must
    # always be deleted together.
    #
  end
end

```

```

    def forget_me
      self.remember_token_expires_at = nil
      self.remember_token           = nil
      save(false)
    end
  end # instance methods
end

module ByCookieTokenController
  # Stuff directives into including module
  def self.included( recipient )
    recipient.extend( ControllerClassMethods )
    recipient.class_eval do
      include ControllerInstanceMethods
    end
  end
end

#
# Class Methods
#
module ControllerClassMethods
end # class methods

module ControllerInstanceMethods
end # instance methods
end

module Authentication
  module ByPassword
    # Stuff directives into including module
    def self.included(recipient)
      recipient.extend(ModelClassMethods)
      recipient.class_eval do
        include ModelInstanceMethods

        # Virtual attribute for the unencrypted password
        attr_accessor :password
        validates_presence_of :password, :if =>
:password_required?
        validates_presence_of :password_confirmation, :if =>
:password_required?
        validates_confirmation_of :password, :if =>
:password_required?
        validates_length_of :password, :within => 6..40, :if =>
:password_required?
        before_save :encrypt_password
      end
    end # #included directives

    #
    # Class Methods
    #
    module ModelClassMethods
      # This provides a modest increased defense against a dictionary attack if

```

```

# your db were ever compromised, but will invalidate existing passwords.
# See the README and the file config/initializers/site_keys.rb
#
# It may not be obvious, but if you set REST_AUTH_SITE_KEY to nil and
# REST_AUTH_DIGEST_STRETCHES to 1 you'll have backwards compatibility with
# older versions of restful-authentication.
def password_digest(password, salt)
  digest = REST_AUTH_SITE_KEY
  REST_AUTH_DIGEST_STRETCHES.times do
    digest = secure_digest(digest, salt, password, REST_AUTH_SITE_KEY)
  end
  digest
end
end # class methods

#
# Instance Methods
#
module ModelInstanceMethods

  # Encrypts the password with the user salt
  def encrypt(password)
    self.class.password_digest(password, salt)
  end

  def authenticated?(password)
    crypted_password == encrypt(password)
  end

  # before filter
  def encrypt_password
    return if password.blank?
    self.salt = self.class.make_token if new_record?
    self.crypt_password = encrypt(password)
  end
  def password_required?
    crypt_password.blank? || !password.blank?
  end
end # instance methods
end
end
module Authentication
  mattr_accessor :login_regex, :bad_login_message,
    :name_regex, :bad_name_message,
    :email_name_regex, :domain_head_regex, :domain_tld_regex, :email_regex,
    :bad_email_message

  self.login_regex      = /\A\w[\w\.\-\_]+\z/          # ASCII,
strict
  # self.login_regex    = /\A[[:alnum:]]+[[:alnum:]\.\-\_]+\z/  # Unicode,
strict
  # self.login_regex    = /\A[^\[:cntrl:]\<>\&]*\z/          # Unicode,
permissive

  self.bad_login_message = "use only letters, numbers, and .-\_@ please.".freeze

```

```

    self.name_regex      = /\A[^\[:cntrl:]\<>\&]*\z/          # Unicode,
    permissive
    self.bad_name_message = "avoid non-printing characters and \><& /
    please.".freeze

    self.email_name_regex = '[\w\.\%\+\-]+'.freeze
    self.domain_head_regex = '(?:[A-Z0-9\-\+\.])+'.freeze
    self.domain_tld_regex = '(?:[A-
Z]{2}|com|org|net|edu|gov|mil|biz|info|mobi|name|aero|jobs|museum)'.freeze
    self.email_regex      =
/\A#{email_name_regex}@#{domain_head_regex}#{domain_tld_regex}\z/i
    self.bad_email_message = "should look like an email address.".freeze

    def self.included(recipient)
      recipient.extend(ModelClassMethods)
      recipient.class_eval do
        include ModelInstanceMethods
      end
    end

    module ModelClassMethods
      def secure_digest(*args)
        Digest::SHA1.hexdigest(args.flatten.join('--'))
      end

      def make_token
        secure_digest(Time.now, (1..10).map{ rand.to_s })
      end
    end # class methods

    module ModelInstanceMethods
    end # instance methods
  end

  module Authorization
    module AasmRoles
      unless Object.constants.include? "STATEFUL_ROLES_CONSTANTS_DEFINED"
        STATEFUL_ROLES_CONSTANTS_DEFINED = true # sorry for the C idiom
      end

      def self.included( recipient )
        recipient.extend( StatefulRolesClassMethods )
        recipient.class_eval do
          include StatefulRolesInstanceMethods
          include AASM
          aasm_column :state
          aasm_initial_state :initial => :pending
          aasm_state :passive
          aasm_state :pending, :enter => :make_activation_code
          aasm_state :active, :enter => :do_activate
          aasm_state :suspended
          aasm_state :deleted, :enter => :do_delete
          aasm_state :admin

          aasm_event :register do

```



```

        transitions :from => :passive, :to => :pending, :guard => Proc.new
{|u| !(u.encrypted_password.blank? && u.password.blank?)}
    end

    aasm_event :activate do
        transitions :from => :pending, :to => :active
    end

    aasm_event :suspend do
        transitions :from => [:passive, :pending, :active], :to => :suspended
    end

    aasm_event :delete do
        transitions :from => [:passive, :pending, :active, :suspended], :to =>
:deleted
    end

    aasm_event :unsuspend do
        transitions :from => :suspended, :to => :active, :guard => Proc.new
{|u| !u.activated_at.blank?}
        transitions :from => :suspended, :to => :pending, :guard => Proc.new
{|u| !u.activation_code.blank?}
        transitions :from => :suspended, :to => :passive
    end
end
end

module StatefulRolesClassMethods
end # class methods

module StatefulRolesInstanceMethods
    # Returns true if the user has just been activated.
    def recently_activated?
        @activated
    end
    def do_delete
        self.deleted_at = Time.now.utc
    end

    def do_activate
        @activated = true
        self.activated_at = Time.now.utc
        self.deleted_at = self.activation_code = nil
    end
end # instance methods
end

module Authorization
    module StatefulRoles
        unless Object.constants.include? "STATEFUL_ROLES_CONSTANTS_DEFINED"
            STATEFUL_ROLES_CONSTANTS_DEFINED = true # sorry for the C idiom
        end

        def self.included( recipient )
            recipient.extend( StatefulRolesClassMethods )
        end
    end
end

```

```

recipient.class_eval do
  include StatefulRolesInstanceMethods

  acts_as_state_machine :initial => :pending
  state :passive
  state :pending, :enter => :make_activation_code
  state :active, :enter => :do_activate
  state :suspended
  state :deleted, :enter => :do_delete

  event :register do
    transitions :from => :passive, :to => :pending, :guard => Proc.new
{|u| !(u.crypted_password.blank? && u.password.blank?)}
  end

  event :activate do
    transitions :from => :pending, :to => :active
  end

  event :suspend do
    transitions :from => [:passive, :pending, :active], :to => :suspended
  end

  event :delete do
    transitions :from => [:passive, :pending, :active, :suspended], :to =>
:deleted
  end

  event :unsuspend do
    transitions :from => :suspended, :to => :active, :guard => Proc.new
{|u| !u.activated_at.blank?}
    transitions :from => :suspended, :to => :pending, :guard => Proc.new
{|u| !u.activation_code.blank?}
    transitions :from => :suspended, :to => :passive
  end
end

module StatefulRolesClassMethods
end # class methods

module StatefulRolesInstanceMethods
  # Returns true if the user has just been activated.
  def recently_activated?
    @activated
  end
  def do_delete
    self.deleted_at = Time.now.utc
  end

  def do_activate
    @activated = true
    self.activated_at = Time.now.utc
    self.deleted_at = self.activation_code = nil
  end
end

```

```

    end # instance methods
  end
end
module Authorization
  def self.included(recipient)
    recipient.extend(ModelClassMethods)
    recipient.class_eval do
      include ModelInstanceMethods
    end
  end
end

module ModelClassMethods
end # class methods

module ModelInstanceMethods
end # instance methods
end
module Trustification
  module EmailValidation
    unless Object.constants.include? "CONSTANTS_DEFINED"
      CONSTANTS_DEFINED = true # sorry for the C idiom
    end

    def self.included(recipient)
      recipient.extend(ClassMethods)
      recipient.class_eval do
        include InstanceMethods
      end
    end

    module ClassMethods
    end # class methods

    module InstanceMethods
    end # instance methods
  end
end
module Trustification
  def self.included(recipient)
    recipient.extend(ModelClassMethods)
    recipient.class_eval do
      include ModelInstanceMethods
    end
  end
end

module ModelClassMethods
end # class methods

module ModelInstanceMethods
end # instance methods
end


## About



Contact Us


```

`%p= link_to('pairwise@photocracy.org', 'mailto:pairwise@photocracy.org')%h2`  
Pairwise Web Service Developer API Documentation

### `%h3 Info`

`%p` This is an API to the pairwise web service allowing users to add questions, items, and voters then from these generate prompts for a question (based on it's items) and a voter (or for an anonymous voter). Prompts are generated by a specific prompt algorithm and votes can be added to a prompt referencing winning items or indicating a skip. All entities can be listed. Items can be listed according to a ranking algorithm. Key (string) to value (integer) pairs can be set per voter.

`%p` All data is opaque, only relationships will be known to the web service. Authentication is performed using a HTTP request header with basic authorization dependent upon the user's assigned login and password. SSL can be used over HTTPS.

### `%h3 Format and Response Codes`

`%p` Arguments can be passed both via REST or through a query string. Because some servers do not support PUT POST request are used in place of PUT requests.

`%p` All methods return an HTTP response code. In event of an error a specific error code will be returned.

- `%ul`
  - `%li`  
`%strong` 200  
returned on success
  - `%li`  
`%strong` 400  
returned on record not found, record invalid, or XML invalid
  - `%li`  
`%strong` 403  
returned on access to items that you do not have permission to access
  - `%li`  
`%strong` 417  
returned on error with passed arguments
  - `%li`  
`%strong` 500  
returned on server error or unexpected result

`%p` All input POST data must match XML format below. All output data is returned as XML.

### `%h3 Actions`

- `%ul`
  - `%li= link_to('Questions', :anchor => 'questions')`
  - `%li= link_to('Items', :anchor => 'items')`
  - `%li= link_to('Prompts', :anchor => 'prompts')`
  - `%li= link_to('Votes', :anchor => 'votes')`
  - `%li= link_to('Voters', :anchor => 'voters')`
  - `%li= link_to('Prompt Algorithms', :anchor => 'prompt_algorithms')`

```
%li= link_to('Ranking Algorithms', :anchor => 'ranking_algorithms')
%li= link_to('Users', :anchor => 'users')
```

[illegible]

[illegible]

```

.methods
%dl
%dt url
%dd items/add
%dt description
%dd Adds some number of items to some number of questions
%dt parameters
%dd active [optional] -- If present items are automatically
activate.  Defaults to false.
%dt request
%dd
POST: Array of items to add
%p
<items>
<br>
< <item>
<br>
< <data>my
item</data>
<br>
< <questions>
<br>

< <question id="[system_question_id]"/>
<br>

< <question id="[system_question_id]"/>
<br>
< </questions>
<br>
< <item>
<br>
< <...
<br>
</items>
%dt response
%dd
Array of added items
%p
<items>
<br>
< <item id="[system_item_id]"/>
<br>
< <item id="[system_item_id]"/>
<br>
< <item id="[system_item_id]"/>
<br>
< <...
<br>
</items>
.methods
%dl
%dt url

```

```

%dd items/list
(items/list/[question_id]/[rank_algorithm]/[limit]/[offset]/[order])
%dt description
%dd List all items uploaded by a user
%dt parameters
%dd question_id [optional]
%dd rank_algorithm [optional] -- name or ID of rank algorithm. Default
order is by created at date.
%dd limit [optional] -- number of items to return
%dd offset [optional] -- start from this item
%dd order [optional] -- asc or desc (default desc), orders by created
date, overrode by position if rank algorithm id is passed<br>
%dd data [optional] -- If present item is passed back as '...&lt;item
id="[system_item_id]"&gt;[item data]&lt;/item&gt;,'
%dt request
%dd none
%dt response
%dd
    Array of items (if rank_algorithm_id is valid)
    %p
        &lt;items&gt;
        %br
        &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&lt;item id="[system_item_id]"
added="[item_created_at_text_date]" active="[item_active_value]"
rank="[system_rank_value]" score="[score_given_algo]" ratings="[item_ratings]"
losses="[item_losses]" wins="[item_wins]" skips="[item_skips]"/&gt;
        %br
        &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&lt;item id="[system_item_id]"
added="[item_created_at_text_date]" active="[item_active_value]"
rank="[system_rank_value]" score="[score_given_algo]" ratings="[item_ratings]"
losses="[item_losses]" wins="[item_wins]" skips="[item_skips]"/&gt;
        %br
        &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&lt;item id="[system_item_id]"
added="[item_created_at_text_date]" active="[item_active_value]"
rank="[system_rank_value]" score="[score_given_algo]" ratings="[item_ratings]"
losses="[item_losses]" wins="[item_wins]" skips="[item_skips]"/&gt;
        %br
        &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&...
        %br
        &lt;/items&gt;
.methods
%dl
%dt url
%dd items/[id]
%dt description
%dd The item's unique url
%dt parameters
%dd id -- id of the item
%dt request
%dd none
%dt response
%dd
    Information about an item
    %p

```



```

        <item id="[system_item_id]" active="[item_active_value]"
added="[item_created_at_text_date]">
    <br>
    <data>item data</data>
    <br>
    <questions>
    <br>
    <question
id="[system_question_id]" rank="[system_rank_value]" ratings="[item_ratings]"
losses="[item_losses]" wins="[item_wins]" skips="[item_skips]">
    <br>
    <question
id="[system_question_id]" rank="[system_rank_value]" ratings="[item_ratings]"
losses="[item_losses]" wins="[item_wins]" skips="[item_skips]">
    <br>
    ...
    </question>
    </item>

.methods
%dl
%dt url
%dd items/activate (items/[id]/activate)
%dt description
%dd Activate the item
%dt parameters
%dd id -- id of the item to activate
%dt request
%dd none
%dt response
%dd
    Information about an item
.methods
%dl
%dt url
%dd items/suspend (items/[id]/suspend)
%dt description
%dd Suspend the item
%dt parameters
%dd id -- id of the item to suspend
%dt request
%dd none
%dt response
%dd
    Information about an item
.methods
%dl
%dt url
%dd items/delete (/items/[id]/delete)
%dt description
%dd Delete an item
%dt parameters
%dd id -- id of the question to delete
%dt request

```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

%dd id -- id of the question to delete
%dt request
%dd none
%dt response
%dd
  List of voters
  %p
    <voters>
    <br>
    <voter id="[system_voter_id]">
    <br>
    <features>
    <br>
    <feature
name="gender">1</feature>
    <br>
    <...
    <br>
    </features>
    <br>
    </voter>
    <br>
    <...
    <br>
    </voters>
.methods
%dl
%dt url
%dd voters/set (voters/set/[id])
%dt description
%dd Set the value of a voter's feature
%dt parameters
%dd id -- id of the voter to set attributes for
%dd {} -- [name of feature]=[value of feature]
%dt request
%dd none
%dt response
%dd
  Voter id
  %p
    <voter id="[system_voter_id]">
%li#prompt_algorithms
%h4 Prompt Algorithms
.methods
%dl
%dt url
%dd prompt_algorithms/list
%dt description
%dd List all available prompting algorithms
%dt parameters
%dd id -- id of the question to delete
%dt request
%dd none
%dt response
%dd

```

[illegible]



[illegible]

%p The Pairwise Web Service allows anyone to create pairwise comparison voting systems. To participate you send us:

- %ol
- %li questions to create pairs for (at least one)
- %li items to vote on (at least two, but the more the better)
- %li [optional] voters to track who votes on what
- %li [optional] key value attributes for your voters

%p Then you can send us API requests and we'll send back:

- %ol
- %li pairs of items to vote on (prompts)
- %li== rankings of the items based on their votes (by percent wins or
- #{link\_to('Elo Score', 'http://en.wikipedia.org/wiki/Elo\_rating\_system')})
- %li the number of votes, wins, losses, and skips for items, questions, and for all your questions

%p To record a vote send us the item your user clicks on, or skips. You can also send us when a user has viewed a prompt and generate statistics on which prompts are more popular.

%p All data is opaque so we will only know relationships between objects. A REST interface is used with POST replacing PUT as some servers do not support PUT. Although, if you prefer, you can use query strings.

%p Authentication is performed using an HTTP request header with basic authorization dependent upon a login and password you'll choose when signing up. If you wish, SSL can be used by interacting over HTTPS.

%p== For details on using the API refer to the #{link\_to('Developer API Documentation', api\_path)}.

### %h3 Additional Resources

%p Ruby on Rails Pairwise Plugin

- %ul
- %li= link\_to('Git Project Page', 'http://github.com/pld/ror-pairwise/tree/master')
- %li= link\_to('RDoc Documentation', 'http://code.helioid.com/ror-pairwise/')

%p Pairwise Website

- %ul
- %li= link\_to('Git Project Page', 'http://github.com/pld/pairwise/tree/master')
- %li= link\_to('RDoc Documentation', 'http://code.helioid.com/pairwise/')%items
- for item in @items
- %item{:id => item.id}%item{:id => @id}= @success
- %items{:count => @items.length}
- if @data
- for i in @items
- iq = i.items\_questions.first
- %item{:id => i.id, :active => active?(i), :rank => iq.position, :score =>
- @score.call(i), :ratings => iq.ratings, :wins => iq.wins, :losses => iq.losses,
- :skips => iq.ratings - (iq.wins + iq.losses) ,:added =>
- i.created\_at.to\_s(:long)}= cdata(i.data)
- else
- for i in @items

```

      -iq = i.items_questions.first
      %item{:id => i.id, :active => active?(i), :rank => iq.position, :score =>
@score.call(i), :ratings => iq.ratings, :wins => iq.wins, :losses => iq.losses,
:skips => iq.ratings - (iq.wins + iq.losses), :added =>
i.created_at.to_s(:long)}/
-if @item
  %item{:id => @item.id, :active => active?(@item), :added =>
@item.created_at.to_s(:long)}
  %data= cdata(@item.data.to_s)
  -if @item.questions
    %questions
    -for question in @item.questions
      -iq = ItemsQuestion.first(:conditions => { :item_id => @item.id,
:question_id => question.id })
      %question{:id => question.id, :rank => iq.position, :ratings =>
iq.ratings, :wins => iq.wins, :losses => iq.losses, :skips => iq.ratings -
(iq.wins + iq.losses) }!!! 1.0
%html{:xmlns => "http://www.w3.org/1999/xhtml", :'xml:lang' => "en", :lang =>
"en"}
  %head
    %meta{:http-equiv => "content-type", :content => "text/html; charset=UTF-
8"}
    %link{:rel => "shortcut icon", :href => "/favicon.ico"}
    %title Pairwise
    = stylesheet_link_tag 'screen'
    = javascript_include_tag :defaults
  %body
    = render :partial => "shared/header"
    %p.notice= flash[:notice]
    = yield
    = analytics
    = render :partial => "shared/footer"!!! XML
%pairwise{:version=>"0.1.1"}
  = yield=f.error_messages

%p
  = f.label :name
  = f.text_field :name
%p
  = f.label :data
  = f.text_field :data%h1 Editing prompt_algorithm

-form_for(@prompt_algorithm) do |f|
  = render :partial => 'form', :locals => { :f => f }
  %p
    = f.submit "Update"
= link_to 'Show', @prompt_algorithm
|
= link_to 'Back', prompt_algorithms_path
%h1 Listing prompt_algorithms

%table
  %tr
    %th Name
    %th Data

```

```

- for prompt_algorithm in @prompt_algorithms
  %tr
  %td=h prompt_algorithm.name
  %td=h prompt_algorithm.data
  %td= link_to 'Show', prompt_algorithm
  %td= link_to 'Edit', edit_prompt_algorithm_path(prompt_algorithm)
  %td= link_to 'Destroy', prompt_algorithm, :confirm => 'Are you sure?',
:method => :delete
%br
= link_to 'New prompt_algorithm', new_prompt_algorithm_path
%prompt_algorithms
- for algorithm in @algorithms
  %prompt_algorithm{:id => algorithm.id}
  %description= cdata(algorithm.name)%h1 New prompt_algorithm

- form_for(@prompt_algorithm) do |f|
  = render :partial => 'form', :locals => { :f => f }
  %p
  = f.submit "Create"
= link_to 'Back', prompt_algorithms_path
%p
%strong Name:
=h @prompt_algorithm.name
%p
%strong Data:
=h @prompt_algorithm.data
= link_to 'Edit', edit_prompt_algorithm_path(@prompt_algorithm)
|
= link_to 'Back', prompt_algorithms_path%prompts
%algorithm{:id => @algorithm_id}/
%question{:id => @question_id}/
- if @data
  - for prompt_id, prompt_item_ids in @prompt_item_ids
    %prompt{:id => prompt_id}
    %items
    - for id in prompt_item_ids
      %item{:id => id}= cdata(Item.find(id).data)
- else
  - for prompt_id, prompt_item_ids in @prompt_item_ids
    %prompt{:id => prompt_id}
    %items
    - for id in prompt_item_ids
      %item{:id => id}/%prompts
- if @data
  - for p in @prompts
    %prompt{:id => p.id}
    %items
    - for i in p.items
      %item{:id => i.id}= cdata(i.data)
    %algorithm{:id => p.prompt_algorithm_id}/
- else
  - for p in @prompts
    %prompt{:id => p.id}
    %items

```

```

        -for i in p.items
            %item{:id => i.id}/
        %algorithm{:id => p.prompt_algorithm_id}/-if @prompt
%prompt{:id => @prompt.id, :active => @prompt.active}
        %question{:id => @prompt.question.id}/
        %items
        -for item in @prompt.items
            %item{:id => item.id}/%questions
    -for question in @questions
        %question{:id => question.id}%question{:id => @id}=
@success%questions{:items => @items_count, :active_and_inactive_items =>
@all_items_count, :votes => @votes_count}
    -for question in @questions
        %question{:id => question.id}= cdata(question.name)-if @question
        %question{:id => @question.id, :items => @items_count,
:active_and_inactive_items => @all_items_count, :votes => @votes_count}=
cdata(@question.name)=f.error_messages

%p
    = f.label :name
    = f.text_field :name
%p
    = f.label :data
    = f.text_field :data%h1 Editing rank_algorithm

-form_for(@rank_algorithm) do |f|
    = render :partial => 'form', :locals => { :f => f }
    %p= f.submit "Update"
    = link_to 'Show', @rank_algorithm
    |
    = link_to 'Back', rank_algorithms_path
%h1 Listing rank_algorithms

%table
    %tr
        %th ID
        %th Name
        %th Data

    -for rank_algorithm in @rank_algorithms
        %tr
            %td=h rank_algorithm.id
            %td=h rank_algorithm.name
            %td=h rank_algorithm.data
            %td= link_to 'Show', rank_algorithm
            %td= link_to 'Edit', edit_rank_algorithm_path(rank_algorithm)
            %td= link_to 'Destroy', rank_algorithm, :confirm => 'Are you sure?',
:method => :delete
    %br
    = link_to 'New rank_algorithm', new_rank_algorithm_path
    %br
    = link_to 'Build Stats', build_stats_rank_algorithms_path
%rank_algorithms
    -for algorithm in @algorithms
        %rank_algorithm{:id => algorithm.id}

```

```

    %description= cdata(algorithm.name)%h1 New rank_algorithm

-form_for(@rank_algorithm) do |f|
  = render :partial => 'form', :locals => { :f => f }
  %p= f.submit "Create"
= link_to 'Back', rank_algorithms_path
%p
  %strong Name:
  =h @rank_algorithm.name
%p
  %strong Data:
  =h @rank_algorithm.data
= link_to 'Edit', edit_rank_algorithm_path(@rank_algorithm)
|
= link_to 'Back', rank_algorithms_path
%h2 Pairwise Web Service API
%table.info
  %tr
    %td
      %p With the Pairwise Web Service anyone can build community-generated and
community-sorted websites. These websites let the best ideas in your group or
organization "bubble to the top" all in a democratic, transparent, and bottom-up
process.
      %p
        For example, the
        = link_to('Princeton Undergraduate Student Government',
'http://www.dailyprincetonian.com/2009/01/12/22505/')
        used a site like this to learn about the best ways to improve campus
life. In a matter of weeks, more than 2,000 students contributed more than
40,000 votes on more than 300 suggestions, about 100 of which were uploaded by
the students themselves.
      %p
        In addition to text, community-generated and community-sorted
information websites can be used for to handle images as was done in
        == #{link_to('Photocracy', 'http://www.photocracy.org')},
        a project to study national identity and cross-national perceptions.
      %td.image= image_tag('which_do_you_want_more_schematic_wrinking.png', :width
=> 400)

%h3 Learn More about using Pairwise
%p= link_to('Learn More', learn_path)
%p= link_to('API Documentation', api_path)

%h3 Sites already using the Pairwise Webservice
%p= link_to("All Our Ideas", 'http://www.allourideas.org')
%p= link_to("Photocracy", 'http://www.photocracy.org')
%p= link_to("Princeton Art of Science 2009",
'http://www.princeton.edu/artofscience/2009/vote/')

%br
%br

-form_tag session_path do
  %table
    %tr

```

```

      %td= label_tag 'login'
      %td= text_field_tag 'login', @email
    %tr
      %td= label_tag 'password'
      %td= password_field_tag 'password', nil
    %tr
      %td
      %td
      = submit_tag 'Log in'
      = link_to 'Sign up', signup_path%script{:type =>"text/javascript"}
    Google.gaSSDSLoad("UA-7217573-2");%ul.footer.horizontal
    %li= link_to 'home', root_path
    %li= link_to 'learn more', learn_path
    %li= link_to 'api', api_path
    %li= link_to 'about', about_path
  %ul.horizontal
    %li
      This research is support by a grant from the
      = link_to('Center for Information Technology Policy',
'http://citp.princeton.edu/')
      at
      = link_to('Princeton University', 'http://www.princeton.edu/')%h1= link_to
'Pairwise', root_path
-if logged_in?
  %p
    logged in as
    = current_user.login
    == ({link_to "log out", logout_path, { :title => "Log out" }})-require 'pp'
%p
  A
  %strong=h @exception.class
  occured in
  %strong=h @controller.controller_name
  \#
  %strong=h @controller.action_name
  \:
  %pre=h @exception.message
  %pre=h @backtrace.first
%hr
%p Request information:
%hr
%ul
  %li
    URL:
    %pre=h @request.protocol
    %pre=h @host
    %pre=h @request.request_uri
  %li
    Parameters:
    %pre=h @request.parameters.inspect
  %li
    Rails root:
    %pre=h @rails_root
%hr
%p Session dump:

```

```

%hr
%ul
-for variable in @request.session.instance_variables
  -next if variable =~ /^@db/
    %li
      %strong=h variable
      %pre=h
escape_once(@request.session.instance_variable_get(variable).inspect.gsub(/\n/,
"\n  ").strip)
%hr
%p Visit:
%hr
%ul
-for key, value in @visit.attributes
  %li
    %strong=h key
    \:
    %pre=h value
%hr
%p Environment:
%hr
%ul
-for key, value in @request.env
  %li
    %strong=h key
    \:
    %pre=h value.to_s.strip
%hr
%p Full execution backtrace:
%hr
  %pre= @backtrace.join "<br/>  "

==#{h @user.login}, your account has been activated.  Welcome aboard!

=h @url
An account has been created.

Username:
=h @user.login

Name:
=h @user.name

Email:
=h @user.email

Created:
=h @user.created_at

State:
=h @user.stateYour account has been created.

Username:
=h @user.login

```



Visit this url to activate your account:

=h @url

%table

%tr

%td Name:

%td= user.login

%tr

%td Email:

%td= user.email

%tr

%td State:

%td= user.state

-if user.state == "passive"

%tr

%td Activation Code:

%td= user.activation\_code

%ul

%li= link\_to 'Suspend', suspend\_user\_path(user)

%li= link\_to 'Unsuspend', unsuspend\_user\_path(user)

%li= link\_to 'Delete', users\_path, :method => :delete, :id => user-if @user &&

!@user.new\_record?

%user{:id => @user.id}

%login= @user.login.content

= render :partial => "user", :collection => @users%h1 Sign up as a new user

= error\_messages\_for :user

-form\_for :user, :url => users\_path do |f|

%table.form

%tr

%td= label\_tag 'name'

%td= f.text\_field :login

%tr

%td= label\_tag 'email'

%td= f.text\_field :email

%tr

%td= label\_tag 'password'

%td= f.password\_field :password

%tr

%td= label\_tag 'password\_confirmation', 'Confirm Password'

%td= f.password\_field :password\_confirmation

%tr

%td

%td= submit\_tag 'Sign up'

%voters

-for voter in @voters

%voter{:id => voter.id}%voters

-for voter in @voters

%voter{:id => voter.id}

%features

-for feature in voter.features

%feature{:name => feature.name}= cdata(feature.value)%voter{:id =>

@voter.id}%vote{:id => @vote.id}

%prompt{:id => @vote.prompt\_id}

%items

-for item in @vote.items

```
    %item{:id => item.id}%votes
  -for vote in @votes
    %vote{:id => vote.id, :tracking => vote.tracking, :response_time =>
vote.response_time}
    %prompt{:id => vote.prompt_id}
    %voter{:id => vote.voter_id}
    %items
    -if @votes_items.nil? || @votes_items.include?(vote)
      -for item in vote.items
        %item{:id => item.id}
```