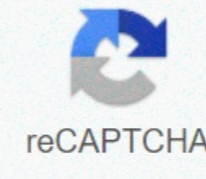




I'm not robot



Continue

From flask import flask render_template url_for request

Today we continue to work on Flask, finishing all important pieces to create a work database app, especially the application object. Goal! Today you can use re-redirect and flash in flask applications. You are fully prepared for H6 Lookup and almost ready for H7 CRUD. Plan! Announcements: A light review schedule to give time to make more pistons on Monday P2 and forms tomorrow Only 2/3 did the quiz. Do people fall counting? understanding the structure of our applications together: Building people_app forms in the Piston: The application object directs flashing display: A form to determine the existence of a mental image of a search structure helps to understand the structure of our applications. Starting with! Starting our work today, make sure to activate your virtual environment: cd ~-cs304 source venv / bin / activate sharing our cs304dbi.py Module ! We use cs304dbi module for the rest of course, importing it many examples, so how do we do it without copying it around all the time? Put it in our virtual environment Building db web interface example ! In the next exercise, we're going to look at all the pieces, so it's clear what they're doing. The longest file is 57 lines. cd ~-cs304/ cp -r ~-cs304/pub/downloads/people_app people_app cd people_app code people.py and see this. python people.py the last step fails because there is no cs304dbi module. Copy cs304dbi.py file in a virtual environment: cp ~-cs304/pub/downloads/pymysql/cs304dbi.py ~-cs304/venv/lib/python3.6/site-packages/ Now run people.py again and it should work. Let's keep looking at the app. See template editor, view app.py editor Run this app. python app.py make sure to create either a VPN or an SSH Tunnel and view the page in your browser. ! demo and you try it too: / / people/ / people-born-in/ edit url try another month quiz questions ! This is a good time to answer your quiz questions. For today's examples! Copy the kolb3 folder to the course account itself, and you can re-create all of today's examples: cd ~-cs304/ cp -r ~-cs304/pub/downloads/flask3 flask3 Guide: This folder is these files. We're going to hit a lot of them until next time. all_examples.py defines the application object and imports examples. So we'll run it, but read the code from the other files. example_template_inheritance.py is our first example, which shows a route that everyone uses a different template, but the last two inherit from the base template. example_request_method.py is our first example, which shows different query methods. example_form_processing_one_route.py is our second example that shows GET TO GET A BLANK FORM AND POST TO USE IT. example_post_redirect_get.py is our third example, which shows a POST that directs do the real work. example_post_redirect_get.py is an example of flashing to easily report errors. To do ! I run the all_examples.py app guest account. You can do the same to your copy. We'll look at the code using VSC. Example: request_method (sqrt)! As you know, forms are critical in web applications. Our first example is the example_request_method.py, which also refers to templates/sqrt_form.html and templates/msg.html. <doctype html><html lang=en><head><meta charset=utf-8><title>{{title}}</title></head><body><h2>Send I/h 2></form method=GET action={{processor}}><p><label>input number <input name=num type=number step=any></label><p><input type=submit value=fin=GET><p><form><h2>Post></form=POST action={{processor}}><p><label>input number <input name=num type=number step=any></label><p>> <p><input type=submit value=POST><p></form><h2>Menu></h2></form method=GET action={{processor}}><p><label>select number <select name=num><option value=2>Two<option value=3>Three<option value=3.1416>Pi<option value=4>Four</select></label> ><p><input type=submit value=submit></p></form></body></html> Note: There may be more than one form on the page. Note the difference in sending data. Note the different behaviors of the re-submission. (Click Reload.) must be completed. I usually put it in a template, not a route. How to use the SELECT menu We could use in a url_for(...) template where we have {{processor}}, if it always goes to the same place that is typical. I divorced them to clear the Python code. Here's the piston code for processing it: piston import (Piston, url_for, render_template, application, redirection, flash) import math all_examples import app @app.route ('/sqrt_form') def sqrt_form(): # This route simply returns the form. returns render_template(sqrt_form.html, processor =url_for(compute_sqrt)) @app.route('/compute_sqrt', methods=[GET,POST]) def compute_sqrt(): # the request object is a new import from the flask, if request.method == GET: num = request.args.get('num') else: num = request.form.get('num'): x = float(num) y = math.sqrt(x) return render_template('msg.html', msg=('square root 'x') is {y}').format(x=x,y=y)), except: return render_template('msg.html', msg=('Error computing square root of {num}').format(num=num))return: render_template('msg.html.html', msg=('Error computing square root of {num}').format(num=num))return: render_template('msg.html', msg=('Error computing square root of {num}').format(num=num))return: render_template('msg.html', msg=('Error computing square root of {num}').format(num=num)) The request symbol must be imported request.method is either GET POST or goes to GET request.form goes to POST View URL in different options Redirects ! redirection is a short answer the browser tells it to make a different application. You can tell redirection is when the server asks the browser to request a different URL URL can be used for a number of reasons. Convert the URL by using query parameters: /find?q=123 /name/m123 To transfer someone to a more suitable page: /login?name=fred&pass=ok /user/fred You do not want to over-use redirects. It should be more about what the user sees, rather than convenient coding. As render_template() you return the redirection: return the redirection(url_for(index)) also need to import the redirect function; see below. Flashing ! Web application should always let the user understand what's going on: Approve updates Show both search criteria and search results Relevant error messages You can do this by adding information to the page: {% than errmsg %} <p>{{errmsg }}<p> {% endif %} The more general solution is that there is a set of messages that can be sucked over to show them all. Like this: {% with messages = get_flashed_messages() %} {% when messages %} <div id=messages> {% msg in %} <p>{{msg}}</p> {% endfor %} </div> {% endif%} {% Completion %} How to format messages, of course, you are. Here we have used a bunch of sections div. Style this CSS. To add a message to the list, use the flash() function: flash('actor inserted)) You need to remember to import the flash feature into your app. See below. Flask uses a special cookie for sessions and flashing, allowing flashed messages to switch to redirect. We will discuss implementation later. However, it is important to know that you need to set a secret key. For security reasons, it should be unpredictable. Set it this way (globally in your app). from the piston import (Kolb, render_template, make_response, request, redirect, url_for, flash) app = Flask(_name_) app.secret_key = replace this string All_examples.py file, we create a random secret key each time. An example of a example_flashing.py file shows flashing. Here are the Piston Routes: Import the plunger (url_for, render_template, request, redirect, flash) imports the math all_examples from the @app.route('/log2/', methods=[GET,POST]) def log2(): when request.method == GET: # it can return the URL to the empty form render_template(log2.html) otherwise: if request.form.get('num') is missing: flash (No num in request) back render_template(log2.html) num = request.form.get (num) sample: x = float(num), except: flash('Cannot convert {}/.float.format(num)) back to render_template(log2.html) as x == 0: flash ('Definitely cannot calculate nullo.'). returns render_template(log2.html) as x < 0: flash('Cannot compute log of negative; using absolute value instead') x = abs(x) # finally! y = math.log(x,2.0) return render_template(log2.html,x=x,y=y) Breakout Exercise: People Born in Month! Your flask3 folder has a subfolder pa1 which has a copy of the people_app with a 0:= flash(" cannot= compute= log= of= using= absolute= value= instead"):= x=abs(x) #= finally!:= y=math.log(x,2.0) return= render_template(log2.html,x=x,y=y) Breakout Exercise: People Born in Month! Your flask3 folder has a subfolder pa1 which has a copy of the people_app with a > > accessories on. Your goal is to add a page with a form that allows the user to request a list by the month of birth they specified: you also process this form entry and reply with the correct list by adding the form! 1. It must be only a simple route that changes the template and returns it. test it. You must enter a link to the URL that leads to the correct URL. test so that part 2 Form Processing! adds a routing that processes the submitted form. It's just vacuous right now. Return a boring page, such as hello_world a form to send data to this routing, change the route to print the submitted form input console. You must import the request object: test that converts int/Replace frantic response with real answer. You can copy/paste the code from the previous file (although copying/pasting is usually a bad sign). We're going to fix this soon. test that part 3 Redirect! Instead of copy/pasted code, redirect back to the correct gentle way You must import the redirect test to part 4 Flashing ! Import flash flask set to secret_key attribute application object, the same message as you printed, add the incantation of flashed messages to your templates. See below test this flash honnimine is something like this. You can change HTML by using OL and LI instead of DIV and P. {% messages = get_flashed_messages() %} {% when messages %} <div id=messages> {% msg in %} <p>{{msg}}</p> {% endfor %} </div> {% endif %} %

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