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| --- |
| import ibm\_db |
|  | from flask\_session import Session |
|  | from flask import Flask, render\_template, redirect, request, session, jsonify |
|  | from datetime import datetime |
|  |  |
|  | # # Instantiate Flask object named app |
|  | app = Flask(\_\_name\_\_) |
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|  | # # Configure sessions |
|  | app.config["DB2\_DATABASE"] = 'bludb' |
|  | app.config["DB2\_HOSTNAME"] = '9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud' |
|  | app.config["DB2\_PORT"] = '32459' |
|  | app.config["DB2\_PROTOCOL"] = 'TCPIP' |
|  | app.config["DB2\_USER"] = 'mqs19694' |
|  | app.config["DB2\_PASSWORD"] = 'SsDjCqU5ECrgxjRF' |
|  |  |
|  | Session(app) |
|  |  |
|  | # Creates a connection to the database |
|  | conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud:32459/bludb:userid=<mqs19694>;password=<r1WNVdtZMECaCyhO>;sslConnection=true;",'','') |
|  | db = conn.connection.cursor() |
|  |  |
|  | @app.route("/") |
|  | def index(): |
|  | shirts = db.execute("SELECT \* FROM shirts ORDER BY onSalePrice") |
|  | shirtsLen = len(shirts) |
|  | # Initialize variables |
|  | shoppingCart = [] |
|  | shopLen = len(shoppingCart) |
|  | totItems, total, display = 0, 0, 0 |
|  | if 'user' in session: |
|  | shoppingCart = db.execute("SELECT samplename, image, SUM(qty), SUM(subTotal), price, id FROM cart GROUP BY samplename") |
|  | shopLen = len(shoppingCart) |
|  | for i in range(shopLen): |
|  | total += shoppingCart[i]["SUM(subTotal)"] |
|  | totItems += shoppingCart[i]["SUM(qty)"] |
|  | shirts = db.execute("SELECT \* FROM shirts ORDER BY onSalePrice ASC") |
|  | shirtsLen = len(shirts) |
|  | return render\_template ("index.html", shoppingCart=shoppingCart, shirts=shirts, shopLen=shopLen, shirtsLen=shirtsLen, total=total, totItems=totItems, display=display, session=session ) |
|  | return render\_template ( "index.html", shirts=shirts, shoppingCart=shoppingCart, shirtsLen=shirtsLen, shopLen=shopLen, total=total, totItems=totItems, display=display) |
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|  | @app.route("/buy/") |
|  | def buy(): |
|  | # Initialize shopping cart variables |
|  | shoppingCart = [] |
|  | shopLen = len(shoppingCart) |
|  | totItems, total, display = 0, 0, 0 |
|  | qty = int(request.args.get('quantity')) |
|  | if session: |
|  | # Store id of the selected shirt |
|  | id = int(request.args.get('id')) |
|  | # Select info of selected shirt from database |
|  | goods = db.execute("SELECT \* FROM shirts WHERE id = :id", id=id) |
|  | # Extract values from selected shirt record |
|  | # Check if shirt is on sale to determine price |
|  | if(goods[0]["onSale"] == 1): |
|  | price = goods[0]["onSalePrice"] |
|  | else: |
|  | price = goods[0]["price"] |
|  | samplename = goods[0]["samplename"] |
|  | image = goods[0]["image"] |
|  | subTotal = qty \* price |
|  | # Insert selected shirt into shopping cart |
|  | db.execute("INSERT INTO cart (id, qty, samplename, image, price, subTotal) VALUES (:id, :qty, :samplename, :image, :price, :subTotal)", id=id, qty=qty, samplename=samplename, image=image, price=price, subTotal=subTotal) |
|  | shoppingCart = db.execute("SELECT samplename, image, SUM(qty), SUM(subTotal), price, id FROM cart GROUP BY samplename") |
|  | shopLen = len(shoppingCart) |
|  | # Rebuild shopping cart |
|  | for i in range(shopLen): |
|  | total += shoppingCart[i]["SUM(subTotal)"] |
|  | totItems += shoppingCart[i]["SUM(qty)"] |
|  | # Select all shirts for home page view |
|  | shirts = db.execute("SELECT \* FROM shirts ORDER BY samplename ASC") |
|  | shirtsLen = len(shirts) |
|  | # Go back to home page |
|  | return render\_template ("index.html", shoppingCart=shoppingCart, shirts=shirts, shopLen=shopLen, shirtsLen=shirtsLen, total=total, totItems=totItems, display=display, session=session ) |
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|  | @app.route("/update/") |
|  | def update(): |
|  | # Initialize shopping cart variables |
|  | shoppingCart = [] |
|  | shopLen = len(shoppingCart) |
|  | totItems, total, display = 0, 0, 0 |
|  | qty = int(request.args.get('quantity')) |
|  | if session: |
|  | # Store id of the selected shirt |
|  | id = int(request.args.get('id')) |
|  | db.execute("DELETE FROM cart WHERE id = :id", id=id) |
|  | # Select info of selected shirt from database |
|  | goods = db.execute("SELECT \* FROM shirts WHERE id = :id", id=id) |
|  | # Extract values from selected shirt record |
|  | # Check if shirt is on sale to determine price |
|  | if(goods[0]["onSale"] == 1): |
|  | price = goods[0]["onSalePrice"] |
|  | else: |
|  | price = goods[0]["price"] |
|  | samplename = goods[0]["samplename"] |
|  | image = goods[0]["image"] |
|  | subTotal = qty \* price |
|  | # Insert selected shirt into shopping cart |
|  | db.execute("INSERT INTO cart (id, qty, samplename, image, price, subTotal) VALUES (:id, :qty, :samplename, :image, :price, :subTotal)", id=id, qty=qty, samplename=samplename, image=image, price=price, subTotal=subTotal) |
|  | shoppingCart = db.execute("SELECT samplename, image, SUM(qty), SUM(subTotal), price, id FROM cart GROUP BY samplename") |
|  | shopLen = len(shoppingCart) |
|  | # Rebuild shopping cart |
|  | for i in range(shopLen): |
|  | total += shoppingCart[i]["SUM(subTotal)"] |
|  | totItems += shoppingCart[i]["SUM(qty)"] |
|  | # Go back to cart page |
|  | return render\_template ("cart.html", shoppingCart=shoppingCart, shopLen=shopLen, total=total, totItems=totItems, display=display, session=session ) |
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|  | @app.route("/filter/") |
|  | def filter(): |
|  | if request.args.get('typeClothes'): |
|  | query = request.args.get('typeClothes') |
|  | shirts = db.execute("SELECT \* FROM shirts WHERE typeClothes = :query ORDER BY samplename ASC", query=query ) |
|  | if request.args.get('sale'): |
|  | query = request.args.get('sale') |
|  | shirts = db.execute("SELECT \* FROM shirts WHERE onSale = :query ORDER BY samplename ASC", query=query) |
|  | if request.args.get('id'): |
|  | query = int(request.args.get('id')) |
|  | shirts = db.execute("SELECT \* FROM shirts WHERE id = :query ORDER BY samplename ASC", query=query) |
|  | if request.args.get('kind'): |
|  | query = request.args.get('kind') |
|  | shirts = db.execute("SELECT \* FROM shirts WHERE kind = :query ORDER BY samplename ASC", query=query) |
|  | if request.args.get('price'): |
|  | query = request.args.get('price') |
|  | shirts = db.execute("SELECT \* FROM shirts ORDER BY onSalePrice ASC") |
|  | shirtsLen = len(shirts) |
|  | # Initialize shopping cart variables |
|  | shoppingCart = [] |
|  | shopLen = len(shoppingCart) |
|  | totItems, total, display = 0, 0, 0 |
|  | if 'user' in session: |
|  | # Rebuild shopping cart |
|  | shoppingCart = db.execute("SELECT samplename, image, SUM(qty), SUM(subTotal), price, id FROM cart GROUP BY samplename") |
|  | shopLen = len(shoppingCart) |
|  | for i in range(shopLen): |
|  | total += shoppingCart[i]["SUM(subTotal)"] |
|  | totItems += shoppingCart[i]["SUM(qty)"] |
|  | # Render filtered view |
|  | return render\_template ("index.html", shoppingCart=shoppingCart, shirts=shirts, shopLen=shopLen, shirtsLen=shirtsLen, total=total, totItems=totItems, display=display, session=session ) |
|  | # Render filtered view |
|  | return render\_template ( "index.html", shirts=shirts, shoppingCart=shoppingCart, shirtsLen=shirtsLen, shopLen=shopLen, total=total, totItems=totItems, display=display) |
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|  | @app.route("/checkout/") |
|  | def checkout(): |
|  | order = db.execute("SELECT \* from cart") |
|  | # Update purchase history of current customer |
|  | for item in order: |
|  | db.execute("INSERT INTO purchases (uid, id, samplename, image, quantity) VALUES(:uid, :id, :samplename, :image, :quantity)", uid=session["uid"], id=item["id"], samplename=item["samplename"], image=item["image"], quantity=item["qty"] ) |
|  | # Clear shopping cart |
|  | db.execute("DELETE from cart") |
|  | shoppingCart = [] |
|  | shopLen = len(shoppingCart) |
|  | totItems, total, display = 0, 0, 0 |
|  | # Redirect to home page |
|  | return redirect('/') |
|  |  |
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|  | @app.route("/remove/", methods=["GET"]) |
|  | def remove(): |
|  | # Get the id of shirt selected to be removed |
|  | out = int(request.args.get("id")) |
|  | # Remove shirt from shopping cart |
|  | db.execute("DELETE from cart WHERE id=:id", id=out) |
|  | # Initialize shopping cart variables |
|  | totItems, total, display = 0, 0, 0 |
|  | # Rebuild shopping cart |
|  | shoppingCart = db.execute("SELECT samplename, image, SUM(qty), SUM(subTotal), price, id FROM cart GROUP BY samplename") |
|  | shopLen = len(shoppingCart) |
|  | for i in range(shopLen): |
|  | total += shoppingCart[i]["SUM(subTotal)"] |
|  | totItems += shoppingCart[i]["SUM(qty)"] |
|  | # Turn on "remove success" flag |
|  | display = 1 |
|  | # Render shopping cart |
|  | return render\_template ("cart.html", shoppingCart=shoppingCart, shopLen=shopLen, total=total, totItems=totItems, display=display, session=session ) |
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|  | @app.route("/login/", methods=["GET"]) |
|  | def login(): |
|  | return render\_template("login.html") |
|  |  |
|  |  |
|  | @app.route("/new/", methods=["GET"]) |
|  | def new(): |
|  | # Render log in page |
|  | return render\_template("new.html") |
|  |  |
|  |  |
|  | @app.route("/logged/", methods=["POST"] ) |
|  | def logged(): |
|  | # Get log in info from log in form |
|  | user = request.form["username"].lower() |
|  | pwd = request.form["password"] |
|  | #pwd = str(sha1(request.form["password"].encode('utf-8')).hexdigest()) |
|  | # Make sure form input is not blank and re-render log in page if blank |
|  | if user == "" or pwd == "": |
|  | return render\_template ( "login.html" ) |
|  | # Find out if info in form matches a record in user database |
|  | query = "SELECT \* FROM users WHERE username = :user AND password = :pwd" |
|  | rows = db.execute ( query, user=user, pwd=pwd ) |
|  |  |
|  | # If username and password match a record in database, set session variables |
|  | if len(rows) == 1: |
|  | session['user'] = user |
|  | session['time'] = datetime.now( ) |
|  | session['uid'] = rows[0]["id"] |
|  | # Redirect to Home Page |
|  | if 'user' in session: |
|  | return redirect ( "/" ) |
|  | # If username is not in the database return the log in page |
|  | return render\_template ( "login.html", msg="Wrong username or password." ) |
|  |  |
|  |  |
|  | @app.route("/history/") |
|  | def history(): |
|  | # Initialize shopping cart variables |
|  | shoppingCart = [] |
|  | shopLen = len(shoppingCart) |
|  | totItems, total, display = 0, 0, 0 |
|  | # Retrieve all shirts ever bought by current user |
|  | myShirts = db.execute("SELECT \* FROM purchases WHERE uid=:uid", uid=session["uid"]) |
|  | myShirtsLen = len(myShirts) |
|  | # Render table with shopping history of current user |
|  | return render\_template("history.html", shoppingCart=shoppingCart, shopLen=shopLen, total=total, totItems=totItems, display=display, session=session, myShirts=myShirts, myShirtsLen=myShirtsLen) |
|  |  |
|  |  |
|  | @app.route("/logout/") |
|  | def logout(): |
|  | # clear shopping cart |
|  | db.execute("DELETE from cart") |
|  | # Forget any user\_id |
|  | session.clear() |
|  | # Redirect user to login form |
|  | return redirect("/") |
|  |  |
|  |  |
|  | @app.route("/register/", methods=["POST"] ) |
|  | def registration(): |
|  | # Get info from form |
|  | username = request.form["username"] |
|  | password = request.form["password"] |
|  | confirm = request.form["confirm"] |
|  | fname = request.form["fname"] |
|  | lname = request.form["lname"] |
|  | email = request.form["email"] |
|  | # See if username already in the database |
|  | rows = db.execute( "SELECT \* FROM users WHERE username = :username ", username = username ) |
|  | # If username already exists, alert user |
|  | if len( rows ) > 0: |
|  | return render\_template ( "new.html", msg="Username already exists!" ) |
|  | # If new user, upload his/her info into the users database |
|  | new = db.execute ( "INSERT INTO users (username, password, fname, lname, email) VALUES (:username, :password, :fname, :lname, :email)", |
|  | username=username, password=password, fname=fname, lname=lname, email=email ) |
|  | # Render login template |
|  | return render\_template ( "login.html" ) |
|  |  |
|  |  |
|  | @app.route("/cart/") |
|  | def cart(): |
|  | if 'user' in session: |
|  | # Clear shopping cart variables |
|  | totItems, total, display = 0, 0, 0 |
|  | # Grab info currently in database |
|  | shoppingCart = db.execute("SELECT samplename, image, SUM(qty), SUM(subTotal), price, id FROM cart GROUP BY samplename") |
|  | # Get variable values |
|  | shopLen = len(shoppingCart) |
|  | for i in range(shopLen): |
|  | total += shoppingCart[i]["SUM(subTotal)"] |
|  | totItems += shoppingCart[i]["SUM(qty)"] |
|  | # Render shopping cart |
|  | return render\_template("cart.html", shoppingCart=shoppingCart, shopLen=shopLen, total=total, totItems=totItems, display=display, session=session) |
|  |  |