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| --- |
| from flask import Flask, redirect, render\_template, request, url\_for, session |
|  | import time |
|  | import re |
|  |  |
|  | app = Flask(\_\_name\_\_) |
|  |  |
|  | # Secret key for sessions |
|  | app.secret\_key = "secret" |
|  |  |
|  | @app.route("/", methods=['GET', 'POST']) |
|  | def index(): |
|  | # Initialises balance and transaction count from session variables |
|  | # If session keys do not exist, KeyError raised - (occurs the first time program is run) |
|  | # Session variables initialised |
|  | # To clear session - session.clear() |
|  | try: |
|  | balance = session["balance"] |
|  | count = session["count"] |
|  | except KeyError: |
|  | count = session["count"] = 0 |
|  | balance = session["balance"] = 8000 |
|  |  |
|  |  |
|  | if request.method == "GET": |
|  | return render\_template("index.html", balance=balance, msg="") |
|  |  |
|  | if request.method == "POST": |
|  |  |
|  | # Checks if amount field is empty |
|  | if request.form["amount"] == "" : |
|  | msg = "Amount is required" |
|  | return render\_template("index.html", balance=balance, msg=msg) |
|  |  |
|  | # Checks if amount entered is negative |
|  | if int(request.form["amount"]) < 0 : |
|  | msg = "Cannot enter negative amount" |
|  | return render\_template("index.html", balance=balance, msg=msg) |
|  |  |
|  | # Checks if number of transactions is equal to 5 |
|  | if session["count"] == 5: |
|  | msg = "5 transactions complete" |
|  | return render\_template("index.html", balance=balance, msg=msg) |
|  |  |
|  | # Checks if user clicked on Withdraw |
|  | if request.form["action"] == 'Withdraw': |
|  |  |
|  | # Checks if amount is greater than balance |
|  | if int(request.form["amount"]) > session["balance"] : |
|  | msg = "Cannot withdraw amount greater than balance" |
|  | return render\_template("index.html", balance=balance, msg=msg) |
|  |  |
|  | # Checks if amount is greater than 5000 |
|  | elif int(request.form["amount"]) > 5000 : |
|  | msg = "Cannot withdraw amount greater than 5000" |
|  | return render\_template("index.html", balance=balance, msg=msg) |
|  |  |
|  | # Deducts amount entered from balance and stores in session |
|  | # Updates the number of transactions by one |
|  | else: |
|  | balance = balance - int(request.form["amount"]) |
|  | session["balance"] = balance |
|  | session["count"] = session["count"] + 1 |
|  | msg = "Money Withdrawn" |
|  | return render\_template("index.html", balance=balance, msg=msg) |
|  |  |
|  | # Checks if user clicked on Deposit |
|  | elif request.form["action"] == 'Deposit': |
|  |  |
|  | # Checks if amount is greater than 10000 |
|  | if int(request.form["amount"]) > 10000 : |
|  | msg = "Cannot deposit amount greater than 10000" |
|  | return render\_template("index.html", balance=balance, msg=msg) |
|  |  |
|  | # Adds amount entered to balance and stores in session |
|  | # Updates the number of transactions by one |
|  | else: |
|  | balance = balance + int(request.form["amount"]) |
|  | session["balance"] = balance |
|  | session["count"] = session["count"] + 1 |
|  | msg = "Money Deposited" |
|  | return render\_template("index.html", balance=balance, msg=msg) |
|  |  |
|  | if \_\_name\_\_ == '\_\_main\_\_': |
|  | app.run() |