# You can add to this file in the editor

import pyotp

import sqlite3

import hashlib

import uuid

from flask import Flask,request

app = Flask(\_\_name\_\_)

db\_name = 'test.db'

@app.route('/')

def index():

return 'Welcome to the hands-on lab to the evolution of passwordsystems'

#if \_\_name\_\_ == "\_\_main\_\_":

# app.run(host='0.0.0.0',port=5000,ssl\_context='adhoc')

#############Plain Text######################

@app.route('/signup/v1',methods=['POST'])

def signup\_v1():

conn = sqlite3.connect(db\_name)

c = conn.cursor()

c.execute('''CREATE TABLE IF NOT EXISTS USER\_PLAIN

(USERNAME TEXT PRIMARY KEY NOT NULL,

PASSWORD TEXT NOT NULL);''')

conn.commit()

try:

c.execute("INSERT INTO USER\_PLAIN(USERNAME,PASSWORD) "

"VALUES ('{0}','{1}')".format(request.form['username'],request.form['password']))

conn.commit()

except sqlite3.IntegrityError:

return "Username has been registered."

print(' username: ',request.form['username'], ' password: ',request.form['password'])

return "signup success"

def verify\_plain(username, password):

conn = sqlite3.connect('test.db')

c = conn.cursor()

query = "SELECT PASSWORD FROM USER\_PLAIN WHERE USERNAME = '{0}'".format(username)

c.execute(query)

records = c.fetchone()

conn.close()

if not records:

return False

return records[0] == password

@app.route('/login/v1', methods=['GET', 'POST'])

def login\_v1():

error = None

if request.method == 'POST':

if verify\_plain(request.form['username'], request.form['password']):

error = 'login success'

else:

error = 'Invalid username/password'

else:

error = 'Invalid Method'

return error

if \_\_name\_\_ == "\_\_main\_\_":

app.run(host='0.0.0.0',port=5000,ssl\_context='adhoc')