

```
from flask import Flask, render_template, request, redirect, session ,url_for

import ibm_db

import re

import sendemail
```

```
app = Flask(__name__, template_folder = 'templates')
```

```
app.config['SECRET_KEY'] = ""
app.config['MAIL_SERVER'] = 'smtp.sendgrid.net'
app.config['MAIL_PORT'] = 587
app.config['MAIL_USE_TLS'] = True
app.config['MAIL_USERNAME'] = 'apikey'
app.config['MAIL_PASSWORD'] = ""
app.config['MAIL_DEFAULT_SENDER'] = 'abitha.thangadurai@gmail.com'
```

```
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=55fbc997-9266-4331-afd3-
888b05e734c0.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31929;SECURITY=SSL;SSLS
erverCertificate=DigiCertGlobalRootCA.crt;UID=spq76013;PWD=lcaFi0FUxoaVlpTn","")
```

```
#HOME--PAGE
```

```
@app.route("/home")
```

```
def home():
```

```
    return render_template("homepage.html")
```

```
@app.route("/")
```

```
def add():
```

```
    return render_template("home.html")
```

#SIGN--UP--OR--REGISTER

```
@app.route("/signup")
```

```
def signup():
```

```
    return render_template("signup.html")
```

```
@app.route('/register', methods=['GET', 'POST'])
```

```
def register():
```

```
    global user_email
```

```
    msg = "
```

```
    if request.method == 'POST' :
```

```
        username = request.form['username']
```

```
        email = request.form['email']
```

```
        password = request.form['password']
```

```
        query = "SELECT * FROM register WHERE email=?;"
```

```
        stmt = ibm_db.prepare(conn, query)
```

```
        ibm_db.bind_param(stmt, 1, email)
```

```
        ibm_db.execute(stmt)
```

```
        account = ibm_db.fetch_assoc(stmt)
```

```
        print(account)
```

```
        if account:
```

```
            msg = 'Account already exists !'
```

```
        elif not re.match(r'^@]+@[^@]+\.[^@]+', email):
```

```
            msg = 'Invalid email address !'
```

```
        elif not re.match(r'[A-Za-z0-9]+', username):
```

```
            msg = 'name must contain only characters and numbers !'
```

else:

```
query = "INSERT INTO register values(?,?,?);"
```

```
stmt = ibm_db.prepare(conn, query)
```

```
ibm_db.bind_param(stmt, 1, username)
```

```
ibm_db.bind_param(stmt, 2, email)
```

```
ibm_db.bind_param(stmt, 3, password)
```

```
ibm_db.execute(stmt)
```

```
session['loggedin'] = True
```

```
session['id'] = email
```

```
user_email = email
```

```
session['email'] = email
```

```
session['username'] = username
```

```
msg = 'You have successfully registered ! Proceed Login Process'
```

```
return render_template('login.html', msg = msg)
```

else:

```
msg = 'PLEASE FILL OUT OF THE FORM'
```

```
return render_template('register.html', msg=msg)
```

#LOGIN--PAGE

```
@app.route("/signin")
```

```
def signin():
```

```
    return render_template('login.html')
```

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

```
def login():
```

```
    global user_email
```

```
    msg = "
```

```

if request.method == 'POST' :
    email = request.form['email']
    password = request.form['password']
    sql = "SELECT * FROM register WHERE email =? AND password=?;"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,email)
    ibm_db.bind_param(stmt,2,password)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print (account)

```

```

if account:
    session['loggedin'] = True
    session['id'] = account['EMAIL']
    user_email= account['EMAIL']
    session['email']=account['EMAIL']
    session['username'] = account['USERNAME']

```

```

    return redirect('/home')

```

```

else:

```

```

    msg = 'Incorrect username / password !'

```

```

return render_template('login.html', msg = msg)

```

#CHANGE FORGOT PASSWORD

```

@app.route("/forgot")

```

```

def forgot():

```

```

    return render_template('forgot.html')

```

```

@app.route("/forgotpw", methods =['GET', 'POST'])

```

```

def forgotpw():
    msg = ""
    if request.method == 'POST' :
        email = request.form['email']
        password = request.form['password']
        query = "SELECT * FROM register WHERE email=?;"
        stmt = ibm_db.prepare(conn, query)
        ibm_db.bind_param(stmt, 1, email)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            query = "UPDATE register SET password = ? WHERE email = ?;"
            stmt = ibm_db.prepare(conn, query)
            ibm_db.bind_param(stmt, 1, password)
            ibm_db.bind_param(stmt, 2, email)
            ibm_db.execute(stmt)
            msg = 'Successfully changed your password ! Proceed Login Process'
            return render_template('login.html', msg = msg)
        else:
            msg = 'PLEASE FILL OUT THE CORRECT DETAILS'
            return render_template('forgot.html', msg=msg)

```

#ADDING----DATA

```
@app.route("/add")
```

```

def adding():
    return render_template('add.html')

```

```

@app.route('/addexpense',methods=['GET', 'POST'])
def addexpense():
    global user_email

    que = "SELECT * FROM expenses where id = ? ORDER BY 'dates' DESC"

    stm = ibm_db.prepare(conn, que)

    ibm_db.bind_param(stm, 1, session['email'])

    ibm_db.execute(stm)

    dictionary=ibm_db.fetch_assoc(stm)

    expense=[]

    while dictionary != False:

exp=(dictionary["ID"],dictionary["DATES"],dictionary["EXPENSENAME"],dictionary["AMOUNT"],dictio
nary["PAYMODE"],dictionary["CATEGORY"])

        expense.append(exp)

        dictionary = ibm_db.fetch_assoc(stm)

    i=len(expense)+1

    idx=str(i)

    dates = request.form['date']

    expensename = request.form['expensename']

    amount = request.form['amount']

    paymode = request.form['paymode']

    category = request.form['category']

    query = "INSERT INTO expenses VALUES (?, ?, ?, ?, ?, ?);"

    stmt = ibm_db.prepare(conn, query)

    ibm_db.bind_param(stmt, 1, session['email'])

    ibm_db.bind_param(stmt, 2, dates)

    ibm_db.bind_param(stmt, 3, expensename)

    ibm_db.bind_param(stmt, 4, amount)

    ibm_db.bind_param(stmt, 5, paymode)

    ibm_db.bind_param(stmt, 6, category)

    ibm_db.bind_param(stmt, 7, idx)

```

```
ibm_db.execute(stmt)

print(dates + " " + expensename + " " + amount + " " + paymode + " " + category)
```

```
return redirect("/display")
```

```
#DISPLAY---graph
```

```
@app.route("/display")
```

```
def display():
```

```
    query = "SELECT * FROM expenses where id = ? ;"
```

```
    stmt = ibm_db.prepare(conn, query)
```

```
    ibm_db.bind_param(stmt, 1, session['email'])
```

```
    ibm_db.execute(stmt)
```

```
    dictionary=ibm_db.fetch_assoc(stmt)
```

```
    rexpense=[]
```

```
    while dictionary != False:
```

```
        exp=(dictionary["ID"],dictionary["DATES"],dictionary["EXPENSENAME"],dictionary["AMOUNT"],dictionary["PAYMODE"],dictionary["CATEGORY"],dictionary["IDX"])
```

```
        rexpense.append(exp)
```

```
        dictionary = ibm_db.fetch_assoc(stmt)
```

```
        que = "SELECT MONTH(dates) as DATES, SUM(amount) as AMOUNT FROM expenses WHERE id=? AND YEAR(dates)= YEAR(now()) GROUP BY MONTH(dates);"
```

```
        stm = ibm_db.prepare(conn, que)
```

```
        ibm_db.bind_param(stm, 1,session['email'])
```

```
        ibm_db.execute(stm)
```

```
        dictionary=ibm_db.fetch_assoc(stm)
```

```
        texpense=[]
```

```
        while dictionary != False:
```

```
            exp=(dictionary["DATES"],dictionary["AMOUNT"])
```

```
texpense.append(exp)

dictionary = ibm_db.fetch_assoc(stm)

print(texpense)
```

```
quer = "SELECT * FROM expenses WHERE id = ? AND YEAR(dates)= YEAR(now());"

st = ibm_db.prepare(conn, quer)

ibm_db.bind_param(st, 1,session['email'])

ibm_db.execute(st)

dictionary=ibm_db.fetch_assoc(st)

expense=[]

while dictionary != False:
```

```
exp=(dictionary["ID"],dictionary["DATES"],dictionary["EXPENSENAME"],dictionary["AMOUNT"],dictionary["PAYMODE"],dictionary["CATEGORY"],dictionary["IDX"])
```

```
    expense.append(exp)

    dictionary = ibm_db.fetch_assoc(st)
```

```
total=0

t_food=0

t_entertainment=0

t_business=0

t_rent=0

t_EMI=0

t_other=0
```

```
for x in expense:
```

```
    total += x[3]

    if x[5] == "food":

        t_food += x[3]
```

```
    elif x[5] == "entertainment":
```



```
t_entertainment += x[3]
```

```
elif x[5] == "business":
```

```
    t_business += x[3]
```

```
elif x[5] == "rent":
```

```
    t_rent += x[3]
```

```
elif x[5] == "EMI":
```

```
    t_EMI += x[3]
```

```
elif x[5] == "other":
```

```
    t_other += x[3]
```

```
print(total)
```

```
print(t_food)
```

```
print(t_entertainment)
```

```
print(t_business)
```

```
print(t_rent)
```

```
print(t_EMI)
```

```
print(t_other)
```

```
qur = "SELECT * FROM expenses WHERE id = ? AND MONTH(dates)= MONTH(now());"
```

```
stt = ibm_db.prepare(conn, qur)
```

```
ibm_db.bind_param(stt, 1, session['email'])
```

```
ibm_db.execute(stt)
```

```
dictionary=ibm_db.fetch_assoc(stt)
```

```
lexpense=[]
```

```
while dictionary != False:
```

```
exp=(dictionary["ID"],dictionary["DATES"],dictionary["EXPENSENAME"],dictionary["AMOUNT"],dictionary["PAYMODE"],dictionary["CATEGORY"],dictionary["IDX"])
```

```
lexpense.append(exp)

dictionary = ibm_db.fetch_assoc(stt)
```

```
ttotal=0

to_food=0

to_entertainment=0

to_business=0

to_rent=0

to_EMI=0

to_other=0
```

```
for x in lexpense:

    ttotal += x[3]

    if x[5] == "food":

        to_food += x[3]

    elif x[5] == "entertainment":

        to_entertainment += x[3]

    elif x[5] == "business":

        to_business += x[3]

    elif x[5] == "rent":

        to_rent += x[3]

    elif x[5] == "EMI":

        to_EMI += x[3]

    elif x[5] == "other":

        to_other += x[3]
```

```
print(tttotal)
```

```
qy = "SELECT max(IDX) as IDX FROM limits where id=?;"
```

```
smt = ibm_db.prepare(conn, qy)
```

```
ibm_db.bind_param(smt, 1, session['email'])
```

```
ibm_db.execute(smt)
```

```
dictionary = ibm_db.fetch_assoc(smt)
```

```
uexpense=[]
```

```
while dictionary != False:
```

```
    exp=(dictionary["IDX"])
```

```
    uexpense.append(exp)
```

```
    dictionary = ibm_db.fetch_assoc(smt)
```

```
k=uexpense[0]
```

```
qu = "SELECT NUMBER FROM limits where id=? and idx=?"
```

```
sm = ibm_db.prepare(conn, qu)
```

```
ibm_db.bind_param(sm, 1, session['email'])
```

```
ibm_db.bind_param(sm, 2, k)
```

```
ibm_db.execute(sm)
```

```
dictionary = ibm_db.fetch_assoc(sm)
```

```
fexpense=[]
```

```
while dictionary != False:
```

```
    exp=(dictionary["NUMBER"])
```

```
    fexpense.append(exp)
```

```
    dictionary = ibm_db.fetch_assoc(stmt)
```

```
if len(fexpense) <= 0:
```

```
    print("Enter the limit First")
```

```
else:
```

```
    if tttotal > fexpense[0]:
```

```
        m=sendemail.sendgridmail(session["email"])
```

```

        print(m)

    else: print("Error")

    return render_template("display.html",rexpense=rexpense, texpense = texpense, expense =
expense, total = total ,

        t_food = t_food,t_entertainment = t_entertainment,

        t_business = t_business, t_rent = t_rent,

        t_EMI = t_EMI, t_other = t_other )

```

#delete---the--data

```
@app.route('/delete/<idx>', methods = ['POST', 'GET' ])
```

```
def delete(idx):
```

```
    query = "DELETE FROM expenses WHERE id=? and idx=?;"
```

```
    stmt = ibm_db.prepare(conn, query)
```

```
    ibm_db.bind_param(stmt, 1, session["email"])
```

```
    ibm_db.bind_param(stmt, 2, idx)
```

```
    ibm_db.execute(stmt)
```

```
    print('deleted successfully')
```

```
    return render_template("display.html")
```

#UPDATE---DATA

```
@app.route('/edit/<id>', methods = ['POST', 'GET' ])
```

```
def edit(id):
```

```
    query = "SELECT * FROM expenses WHERE id=? and idx=?;"
```

```
    stmt = ibm_db.prepare(conn, query)
```

```
    ibm_db.bind_param(stmt, 1, session['email'])
```

```
    ibm_db.bind_param(stmt, 2, id)
```

```

ibm_db.execute(stmt)

dictionary=ibm_db.fetch_assoc(stmt)

expense=[]

while dictionary != False:

exp=(dictionary["ID"],dictionary["DATES"],dictionary["EXPENSENAME"],dictionary["AMOUNT"],dictionary["PAYMODE"],dictionary["CATEGORY"],dictionary["IDX"])

    expense.append(exp)

    dictionary = ibm_db.fetch_assoc(stmt)

print(expense)

return render_template('edit.html', expenses = expense[0])

```

```

@app.route('/update/<id>', methods = ['POST'])
def update(id):
    if request.method == 'POST' :
        dates = request.form['date']
        expensename = request.form['expensename']
        amount = request.form['amount']
        paymode = request.form['paymode']
        category = request.form['category']

        query = "UPDATE expenses SET dates = ? , expensename = ? , amount = ? , paymode = ? , category
= ? WHERE id = ? and idx=?;"

        stmt = ibm_db.prepare(conn, query)
        ibm_db.bind_param(stmt, 1, dates)
        ibm_db.bind_param(stmt, 2, expensename)
        ibm_db.bind_param(stmt, 3, amount)
        ibm_db.bind_param(stmt, 4, paymode)
        ibm_db.bind_param(stmt, 5, category)
        ibm_db.bind_param(stmt, 6, session['email'])

```

```
ibm_db.bind_param(stmt, 7, id)
```

```
ibm_db.execute(stmt)
```

```
print('successfully updated')
```

```
return redirect("/display")
```

```
#limit
```

```
@app.route("/limit" )
```

```
def limit():
```

```
    return render_template('limit.html')
```

```
@app.route("/limitnum" , methods = ['POST' ])
```

```
def limitnum():
```

```
    que = "SELECT * FROM limits where id = ? ;"
```

```
    stm = ibm_db.prepare(conn, que)
```

```
    ibm_db.bind_param(stm, 1, session['email'])
```

```
    ibm_db.execute(stm)
```

```
    if request.method == "POST":
```

```
        dictionary=ibm_db.fetch_assoc(stm)
```

```
        expense=[]
```

```
        while dictionary != False:
```

```
            exp=(dictionary['ID'],dictionary['NUMBER'],dictionary['IDX'])
```

```
            expense.append(exp)
```

```
            dictionary = ibm_db.fetch_assoc(stm)
```

```

i=len(expense)+1
idx=str(i)
number= request.form['number']
query = "INSERT INTO limits VALUES(?,?,?)"
stmt = ibm_db.prepare(conn, query)
ibm_db.bind_param(stmt, 1, session['email'])
ibm_db.bind_param(stmt, 2, number)
ibm_db.bind_param(stmt, 3, idx)
ibm_db.execute(stmt)
return redirect('/limitn')

```

```
@app.route("/limitn")
```

```
def limitn():
```

```

    query = "SELECT max(IDX) as IDX FROM limits where id=?;"
    stmt = ibm_db.prepare(conn, query)
    ibm_db.bind_param(stmt, 1, session['email'])
    ibm_db.execute(stmt)
    dictionary = ibm_db.fetch_assoc(stmt)
    expense=[]
    while dictionary != False:
        exp=(dictionary["IDX"])
        expense.append(exp)
        dictionary = ibm_db.fetch_assoc(stmt)
    k=expense[0]
    que = "SELECT NUMBER FROM limits where id=? and idx=?"
    stmt = ibm_db.prepare(conn, que)
    ibm_db.bind_param(stmt, 1, session['email'])
    ibm_db.bind_param(stmt, 2, k)
    ibm_db.execute(stmt)
    dictionary = ibm_db.fetch_assoc(stmt)

```

```

texpense=[]
while dictionary != False:
    exp=(dictionary["NUMBER"])
    texpense.append(exp)
    dictionary = ibm_db.fetch_assoc(stmt)
s=texpense[0]
return render_template("limit.html" , y= s)

```

#REPORT

```

@app.route("/today")
def today():
    query = "SELECT dates, amount FROM expenses WHERE id = ? AND DATE(dates) = DATE(NOW());"
    "

    stmt = ibm_db.prepare(conn, query)
    ibm_db.bind_param(stmt, 1, str(session['email']))
    ibm_db.execute(stmt)
    dictionary=ibm_db.fetch_assoc(stmt)
    texpense=[]
    while dictionary != False:
        exp=(dictionary["DATES"],dictionary["AMOUNT"])
        texpense.append(exp)
        dictionary = ibm_db.fetch_assoc(stmt)
    print(texpense)

    query = "SELECT * FROM expenses WHERE id = ? AND DATE(dates) = DATE(NOW())"
    stmt = ibm_db.prepare(conn, query)
    ibm_db.bind_param(stmt, 1, session['email'])
    ibm_db.execute(stmt)
    dictionary=ibm_db.fetch_assoc(stmt)

```



```
expense=[]  
while dictionary != False:  
    exp=(dictionary["AMOUNT"],dictionary["PAYMODE"],dictionary["CATEGORY"])  
    expense.append(exp)  
    dictionary = ibm_db.fetch_assoc(stmt)
```

```
total=0  
t_food=0  
t_entertainment=0  
t_business=0  
t_rent=0  
t_EMI=0  
t_other=0
```

```
for x in expense:  
    total += x[0]  
    if x[2] == "food":  
        t_food += x[0]  
  
    elif x[2] == "entertainment":  
        t_entertainment += x[0]  
  
    elif x[2] == "business":  
        t_business += x[0]  
    elif x[2] == "rent":  
        t_rent += x[0]  
  
    elif x[2] == "EMI":  
        t_EMI += x[0]
```

```
elif x[2] == "other":
```

```
    t_other += x[0]
```

```
print(total)
```

```
print(t_food)
```

```
print(t_entertainment)
```

```
print(t_business)
```

```
print(t_rent)
```

```
print(t_EMI)
```

```
print(t_other)
```

```
return render_template("today.html", texpanse = texpanse, expense = expense, total = total ,
```

```
    t_food = t_food,t_entertainment = t_entertainment,
```

```
    t_business = t_business, t_rent = t_rent,
```

```
    t_EMI = t_EMI, t_other = t_other )
```

```
@app.route("/month")
```

```
def month():
```

```
    query = "SELECT dates, SUM(amount) as AMOUNT FROM expenses WHERE id= ? AND  
MONTH(dates)= MONTH(now()) GROUP BY dates ORDER BY dates;"
```

```
    stmt = ibm_db.prepare(conn, query)
```

```
    ibm_db.bind_param(stmt, 1, str(session['email']))
```

```
    ibm_db.execute(stmt)
```

```
    dictionary=ibm_db.fetch_assoc(stmt)
```

```
    texpanse=[]
```

```
    while dictionary != False:
```

```
        exp=(dictionary["DATES"],dictionary["AMOUNT"])
```

```
texpense.append(exp)

dictionary = ibm_db.fetch_assoc(stmt)

print(texpense)
```

```
query = "SELECT * FROM expenses WHERE id = ? AND MONTH(dates)= MONTH(now());"

stmt = ibm_db.prepare(conn, query)

ibm_db.bind_param(stmt, 1, session['email'])

ibm_db.execute(stmt)

dictionary=ibm_db.fetch_assoc(stmt)

expense=[]

while dictionary != False:
```

```
exp=(dictionary["ID"],dictionary["DATES"],dictionary["EXPENSENAME"],dictionary["AMOUNT"],dictionary["PAYMODE"],dictionary["CATEGORY"],dictionary["IDX"])
```

```
    expense.append(exp)

    dictionary = ibm_db.fetch_assoc(stmt)
```

```
total=0

t_food=0

t_entertainment=0

t_business=0

t_rent=0

t_EMI=0

t_other=0
```

```
for x in expense:
```

```
    total += x[3]

    if x[5] == "food":

        t_food += x[3]
```

```
    elif x[5] == "entertainment":
```

```
t_entertainment += x[3]
```

```
elif x[5] == "business":
```

```
    t_business += x[3]
```

```
elif x[5] == "rent":
```

```
    t_rent += x[3]
```

```
elif x[5] == "EMI":
```

```
    t_EMI += x[3]
```

```
elif x[5] == "other":
```

```
    t_other += x[3]
```

```
print(total)
```

```
print(t_food)
```

```
print(t_entertainment)
```

```
print(t_business)
```

```
print(t_rent)
```

```
print(t_EMI)
```

```
print(t_other)
```

```
return render_template("today.html", texpanse = texpanse, expense = expense, total = total ,
```

```
    t_food = t_food, t_entertainment = t_entertainment,
```

```
    t_business = t_business, t_rent = t_rent,
```

```
    t_EMI = t_EMI, t_other = t_other )
```

```
@app.route("/year")
```

```
def year():
```

```
query = "SELECT MONTH(dates) as DATES, SUM(amount) as AMOUNT FROM expenses WHERE  
id=? AND YEAR(dates)= YEAR(now()) GROUP BY MONTH(dates);"
```

```
stmt = ibm_db.prepare(conn, query)
```

```
ibm_db.bind_param(stmt, 1, session['email'])
```

```
ibm_db.execute(stmt)
```

```
dictionary=ibm_db.fetch_assoc(stmt)
```

```
texpense=[]
```

```
while dictionary != False:
```

```
exp=(dictionary["DATES"],dictionary["AMOUNT"])
```

```
texpense.append(exp)
```

```
dictionary = ibm_db.fetch_assoc(stmt)
```

```
print(texpense)
```

```
query = "SELECT * FROM expenses WHERE id = ? AND YEAR(dates)= YEAR(now());"
```

```
stmt = ibm_db.prepare(conn, query)
```

```
ibm_db.bind_param(stmt, 1, session['email'])
```

```
ibm_db.execute(stmt)
```

```
dictionary=ibm_db.fetch_assoc(stmt)
```

```
expense=[]
```

```
while dictionary != False:
```

```
exp=(dictionary["ID"],dictionary["DATES"],dictionary["EXPENSENAME"],dictionary["AMOUNT"],dictio  
nary["PAYMODE"],dictionary["CATEGORY"],dictionary["IDX"])
```

```
expense.append(exp)
```

```
dictionary = ibm_db.fetch_assoc(stmt)
```

```
total=0
```

```
t_food=0
```

```
t_entertainment=0
```

```
t_business=0
```

```
t_rent=0
```

```
t_EMI=0
```

```
t_other=0
```

```
for x in expense:
```

```
    total += x[3]
```

```
    if x[5] == "food":
```

```
        t_food += x[3]
```

```
    elif x[5] == "entertainment":
```

```
        t_entertainment += x[3]
```

```
    elif x[5] == "business":
```

```
        t_business += x[3]
```

```
    elif x[5] == "rent":
```

```
        t_rent += x[3]
```

```
    elif x[5] == "EMI":
```

```
        t_EMI += x[3]
```

```
    elif x[5] == "other":
```

```
        t_other += x[3]
```

```
print(total)
```

```
print(t_food)
```

```
print(t_entertainment)
```

```
print(t_business)
```

```
print(t_rent)
```

```
print(t_EMI)
```

```
print(t_other)
```

```
return render_template("today.html", texpanse = texpanse, expense = expense, total = total ,  
    t_food = t_food,t_entertainment = t_entertainment,  
    t_business = t_business, t_rent = t_rent,  
    t_EMI = t_EMI, t_other = t_other )
```

#log-out

```
@app.route('/logout')
```

```
def logout():
```

```
    session.pop('loggedin', None)
```

```
    session.pop('id', None)
```

```
    session.pop('username', None)
```

```
    return render_template('home.html')
```

```
if __name__ == "__main__":
```

```
    app.run(debug=True)
```