

# SETTING UP APPLICATION ENVIRONMENT

## Create Flask Program

Date	04-November-2022
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Project Name	Smart Fashion Recommender application

### Flask program:

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

```
import ibm_db
```

```
import re
```

```
app = Flask(__name__)
```

```
app.secret_key = 'a'
```

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=125f9f61-9715-46f9-9399-
```

```
c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30426;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA
```

```
(1).crt;UID=xyl36403;PWD=tzjT77HDeraBk4kw","")
```

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

```
def homer():
```

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

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

```
def login():
```

```
    global userid
```

```
    msg = "
```

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

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

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

```
    sql = "SELECT * FROM users WHERE username =? AND password=?"
```

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

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

```
    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['USERNAME']
```

```
        userid= account['USERNAME']
```

```

    session['username'] = account['USERNAME']

    msg = 'Logged in successfully !'

    msg = 'Logged in successfully !'

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

else:

    msg = 'Incorrect username / password !'

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

```

```

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

    msg = ""

    if request.method == 'POST' :

        username = request.form['username']

        email = request.form['email']

        password = request.form['password']

        sql = "SELECT * FROM users WHERE username =?"

        stmt = ibm_db.prepare(conn, sql)

        ibm_db.bind_param(stmt,1,username)

        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:

    insert_sql = "INSERT INTO users VALUES (?, ?, ?)"

    prep_stmt = ibm_db.prepare(conn, insert_sql)

    ibm_db.bind_param(prepare_stmt, 1, username)

    ibm_db.bind_param(prepare_stmt, 2, email)

    ibm_db.bind_param(prepare_stmt, 3, password)

    ibm_db.execute(prepare_stmt)

    msg = 'You have successfully registered !'

elif request.method == 'POST':

    msg = 'Please fill out the form !'

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

```

```

@app.route('/dashboard')

```

```

def dash():

```

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

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

```
def apply():
```

```
    msg = "
```

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

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

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

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

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

```
        jobs = request.form['s']
```

```
        sql = "SELECT * FROM users WHERE username =?"
```

```
        ""stmt = ibm_db.prepare(conn, sql)
```

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

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

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

```
        print(account)
```

```
        #if account:
```

```
            # msg = 'there is only 1 job position! for you'
```

```
            # return render_template('apply.html', msg = msg)""
```

```
insert_sql = "INSERT INTO job VALUES (?, ?, ?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prepare_stmt, 1, username)
ibm_db.bind_param(prepare_stmt, 2, email)
ibm_db.bind_param(prepare_stmt, 3, qualification)
ibm_db.bind_param(prepare_stmt, 4, skills)
ibm_db.bind_param(prepare_stmt, 5, jobs)
ibm_db.execute(prepare_stmt)
msg = 'You have successfully applied for job !'
session['loggedin'] = True
TEXT = "Hello sandeep,a new appliaction for job position" +jobs+"is
requested"
```

```
#sendmail(TEXT,"sandeep@thesmartbridge.com")
#
# sendgridmail("sandeep@thesmartbridge.com",TEXT)
```

```
elif request.method == 'POST':
    msg = 'Please fill out the form !'
    return render_template('apply.html', msg = msg)
```

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

def display():

    print(session["username"],session['id'])


    cursor = mysql.connection.cursor()

    cursor.execute('SELECT * FROM job WHERE userid = % s', (session['id'],))

    account = cursor.fetchone()

    print("accountdisplay",account)


    return render_template('display.html',account = account)


@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(host='0.0.0.0')
```