

# ASSIGNMENT 3

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## Task 1

### INVENTORY MANAGEMENT SYSTEM

#### Login

Username

Password

Login

### INVENTORY MANAGEMENT SYSTEM



Efficiency in inventory means the ability to quickly receive and store products as they come in and retrieve and ship when they go out. Every extra second spent in these processes adds to the costs of inventory management.

#### Register

Username

Email

Password

Register

Already have an account? [Login](#)

## Docker image to the IBM container registry

```
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=b1udb;HOSTNAME=54a2f15b-5c0f-46df-89
print("connected")
```

```
@app.route('/')
def home():
    return render_template('index.html')
@app.route('/home')
def home1():
    return render_template('index.html')
@app.route('/about')
def about():
    return render_template('index.html')
@app.route('/meme')
def mem():
    return render_template('meme.html')
@app.route('/login')
def login():
    return render_template('login.html')
@app.route('/register')
def register():
    return render_template('register.html')
@app.route('/logout')
def logout():
    return render_template('index.html')
```

```

@app.route("/reg", methods=['POST', 'GET'])
def signup():
    msg = ''
    if request.method == 'POST':
        name = request.form["name"]
        email = request.form["email"]
        password = request.form["password"]
        sql = "SELECT * FROM REGISTER WHERE name= ?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, name)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            return render_template('login.html', error=True)
        elif not re.match(r'^[a-zA-Z0-9]+@[a-zA-Z0-9]+\.[a-zA-Z]+', email):
            msg = "Invalid Email Address!"
        else:
            insert_sql = "INSERT INTO REGISTER VALUES (?, ?, ?)"
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            # this username & password should be same as db-2 details & order also
            ibm_db.bind_param(prepare_stmt, 1, name)
            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 !"
    return render_template('login.html', msg=msg)

```

```

@app.route("/log", methods=['POST', 'GET'])
def login1():
    if request.method == "POST":
        email = request.form["email"]
        password = request.form["password"]
        sql = "SELECT * FROM REGISTER WHERE EMAIL=? AND PASSWORD=?" # from db2 sql table
        stmt = ibm_db.prepare(conn, sql)
        # this username & password should be same as db-2 details & order also
        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']
            session['email'] = account['EMAIL']
            return render_template('meme.html')
        else:
            msg = "Incorrect Email/password"
            return render_template('login.html', msg=msg)
    else:
        return render_template('login.html')

```

```

@app.route('/test', methods=['POST', 'GET'])
def meme():
    if request.method == 'POST':
        keywords = request.form["key"]
        print(keywords)
        url = "https://humor-jokes-and-memes.p.rapidapi.com/memes/search"

        querystring = {"keywords": keywords, "media-type": "image", "keywords-in-image": "false", "min-rating": "3",
            "number": "2"}

        headers = {
            "X-RapidAPI-Key": "42114a62a7mshb20f7b5bef96ebep1e7842jsn2d4c884c1e23",
            "X-RapidAPI-Host": "humor-jokes-and-memes.p.rapidapi.com"}

        response = requests.request("GET", url, headers=headers, params=querystring)
        print(response.text)
        output = json.loads(response.text)
        print(output)
        op1 = output['memes'][0]['url']
        webbrowser.open(op1)
        op2 = output['memes'][1]['url']
        webbrowser.open(op2)
    return render_template('meme.html', output1=op1, output2=op2)

```

# Output



# Docker container using kubernetes

