SPRINT-3

TEAM ID	**PNT2022TMID04866**
Project Title	**Inventory Management System for Retailers**
DATE	**11-11-2022**
MARK	**20 Points**

Functional Requirement:

- Home page
- Register page
- Login page
- Dashboard
- Add Stock
- Update Stock
- Delete Stock
- View Stock

Code:

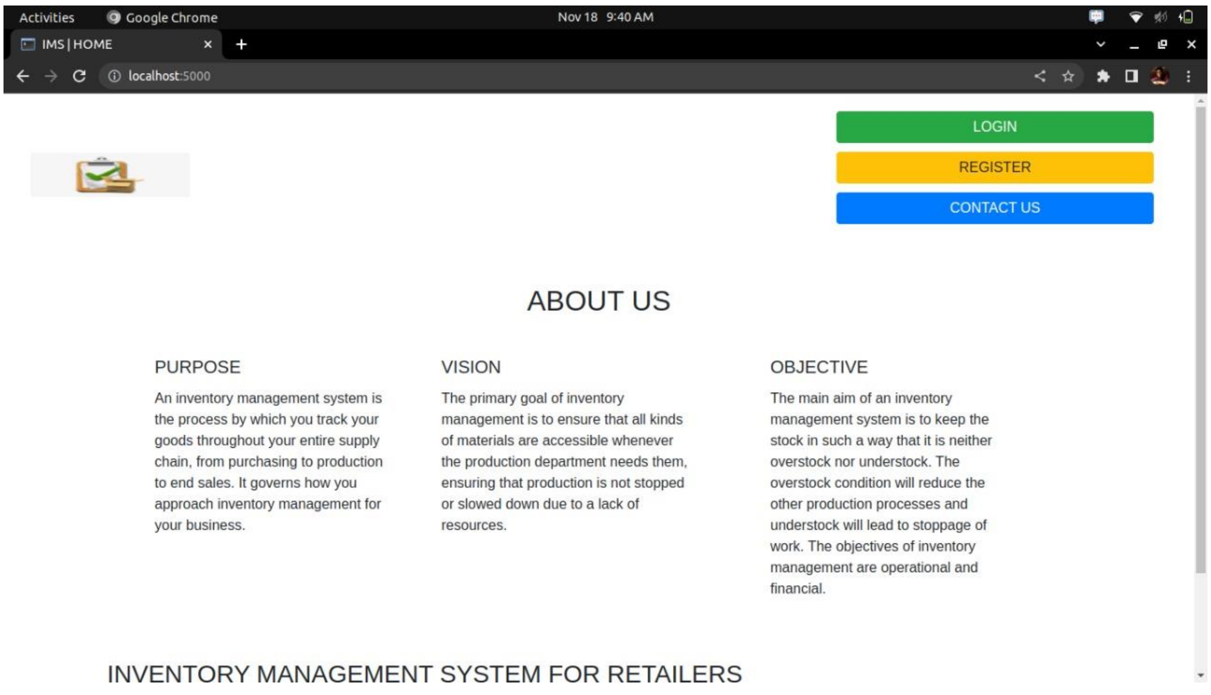
app.py:

```
from
flask
import
Flask,
render_te
mplate,
request,
redirect,
url_for,
session,
flash
            import ibm_db
            import sqlite3 as sql
            import re
            import alert
            from dotenv import dotenv_values
            app = Flask(__name__)
            envData=dotenv_values("./.env")
```

```
hostname=envData["HOSTNAME"]
port=envData["PORT"]
uid=envData["UID"]
pwd=envData["PWD"]
app.secret_key = 'a'
creds =
"DATABASE=bludb;HOSTNAME=%s;PORT=%s;SECURITY=SSL;SSLServerCertificate=./Digi
CertGlobalRootCA.crt;UID=%s;PWD=%s"%(hostname,port,uid,pwd)
print(conn)
print("Connecting Successful!!!!!!!!")


@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 !'
            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(prep_stmt, 1, username)
            ibm_db.bind_param(prep_stmt, 2, email)
            ibm_db.bind_param(prep_stmt, 3, password)
            ibm_db.execute(prep_stmt)
            msg = 'Please fill out the form !'
        if request.method == 'POST':
          msg = 'You have successfully registered! Please login !'
        #   sendgridmail(email,msg)
    return render_template('register.html', msg = msg)


@app.route('/add_stock',methods=['GET','POST'])
def add_stock():
    msg=''
    if request.method == "POST":
        prodname=request.form['prodname']
        quantity=request.form['quantity']
        warehouse_location=request.form['warehouse_location']
        sql='SELECT * FROM product WHERE prodname =?'
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,prodname)
        ibm_db.execute(stmt)
        acnt=ibm_db.fetch_assoc(stmt)
        print(acnt)

        if acnt:
            msg='Product already exits!!'
            return render_template("add_stock.html",msg=msg)
        else:
            insert_sql='INSERT INTO product VALUES (?,?,?)'
            pstmt=ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(pstmt,1,prodname)
            ibm_db.bind_param(pstmt,2,quantity)
            ibm_db.bind_param(pstmt,3,warehouse_location)
            ibm_db.execute(pstmt)
            msg='You have successfully added the products!!'
            return render_template("dashboard.html")



    else:
        msg="fill out the form first!"
        return render_template('add_stock.html',meg=msg)



@app.route('/delete_stock',methods=['GET','POST'])
def delete_stock():
    if(request.method=="POST"):
        prodname=request.form['prodname']
        sql2="DELETE FROM product WHERE prodname=?"
        stmt2 = ibm_db.prepare(conn, sql2)
        ibm_db.bind_param(stmt2,1,prodname)
        ibm_db.execute(stmt2)



        flash("Product Deleted", "success")



        return render_template("dashboard.html")



@app.route('/update_stock',methods=['GET','POST'])
def update_stock():
    mg=''
    if request.method == "POST":
        prodname=request.form['prodname']
        quantity=request.form['quantity']
        quantity=int(quantity)
        print(quantity)
        print(type(quantity))
        warehouse_location=request.form['warehouse_location']
        sql='SELECT * FROM product WHERE prodname =?'
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,prodname)
        ibm_db.execute(stmt)
        acnt=ibm_db.fetch_assoc(stmt)
        print(acnt)

        if acnt:
            insert_sql='UPDATE product SET  quantity=?,warehouse_location=?
WHERE prodname=? '
            pstmt=ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(pstmt,1,quantity)
            ibm_db.bind_param(pstmt,2,warehouse_location)
            ibm_db.bind_param(pstmt,3,prodname)
            ibm_db.execute(pstmt)
            mg='You have successfully updated the products!!'
            limit=5
            print(type(limit))
            if(quantity<=limit):
                   alert("Please update the quantity of the product {},
Atleast {} number of pieces must be added!".format(prodname,10))
            return render_template("dashboard.html",meg=mg)

        else:
             mg='Product not found!!'




    else:
         msg="fill out the form first!"
         return render_template('update_stock.html',meg=msg)



@app.route('/view_stock')
def view_stock():

    sql = "SELECT * FROM product"
    stmt = ibm_db.prepare(conn, sql)
    result=ibm_db.execute(stmt)
    print(result)


    products=[]
    row = ibm_db.fetch_assoc(stmt)
    print(row)
    while(row):
        products.append(row)
        row = ibm_db.fetch_assoc(stmt)
        print(row)
    products=tuple(products)
    print(products)


    if result>0:
        return render_template('view.html', products = products)
    else:
        msg='No products found'
        return render_template('view.html', msg=msg)





@app.route('/delete')
def delete():
    return render_template('delete_stock.html')


@app.route('/update')
def update():
    return render_template('update_stock.html')



@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')
```

Output:



Activities Google Chrome Nov 18 9:40 AM

IMS | HOME

localhost:5000

LOGIN

REGISTER

CONTACT US

ABOUT US

PURPOSE

An inventory management system is the process by which you track your goods throughout your entire supply chain, from purchasing to production to end sales. It governs how you approach inventory management for your business.

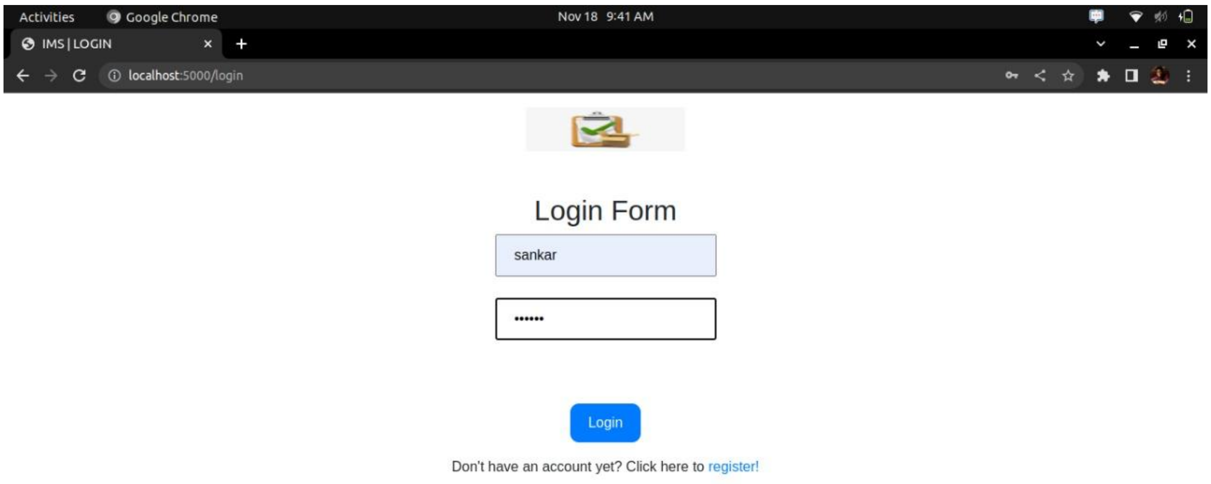
VISION

The primary goal of inventory management is to ensure that all kinds of materials are accessible whenever the production department needs them, ensuring that production is not stopped or slowed down due to a lack of resources.

OBJECTIVE

The main aim of an inventory management system is to keep the stock in such a way that it is neither overstock nor understock. The overstock condition will reduce the other production processes and understock will lead to stoppage of work. The objectives of inventory management are operational and financial.

INVENTORY MANAGEMENT SYSTEM FOR RETAILERS



Activities Google Chrome Nov 18 9:41 AM

IMS | LOGIN

localhost:5000/login

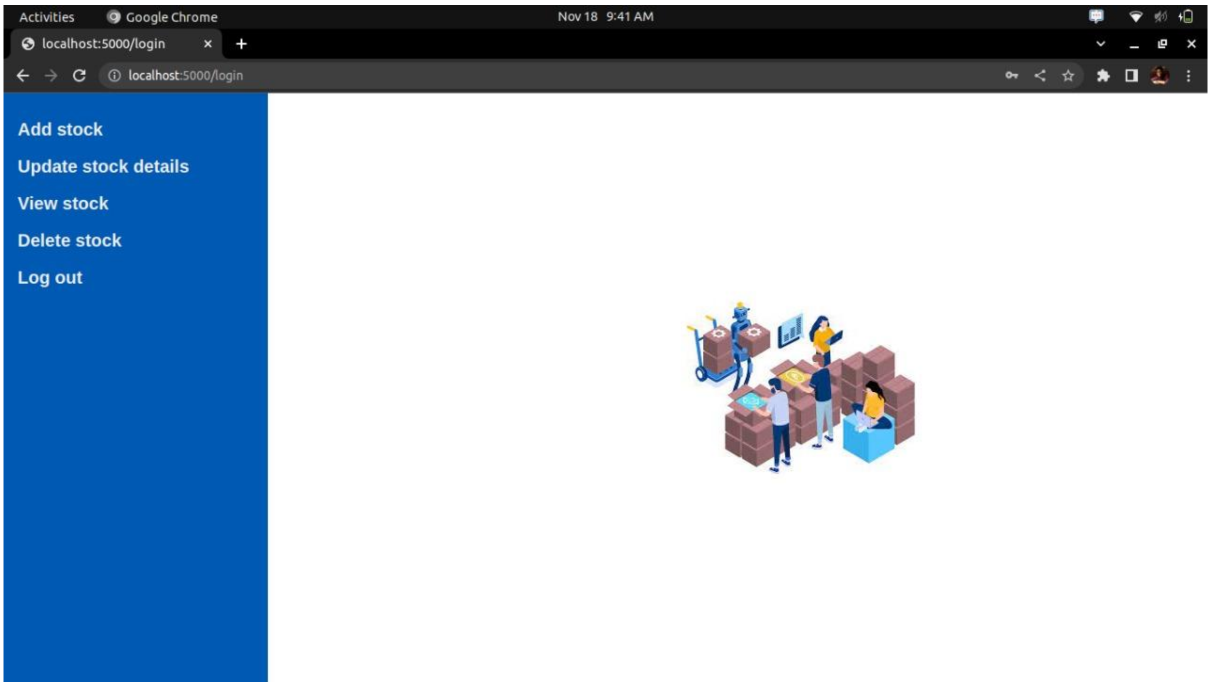
Login Form

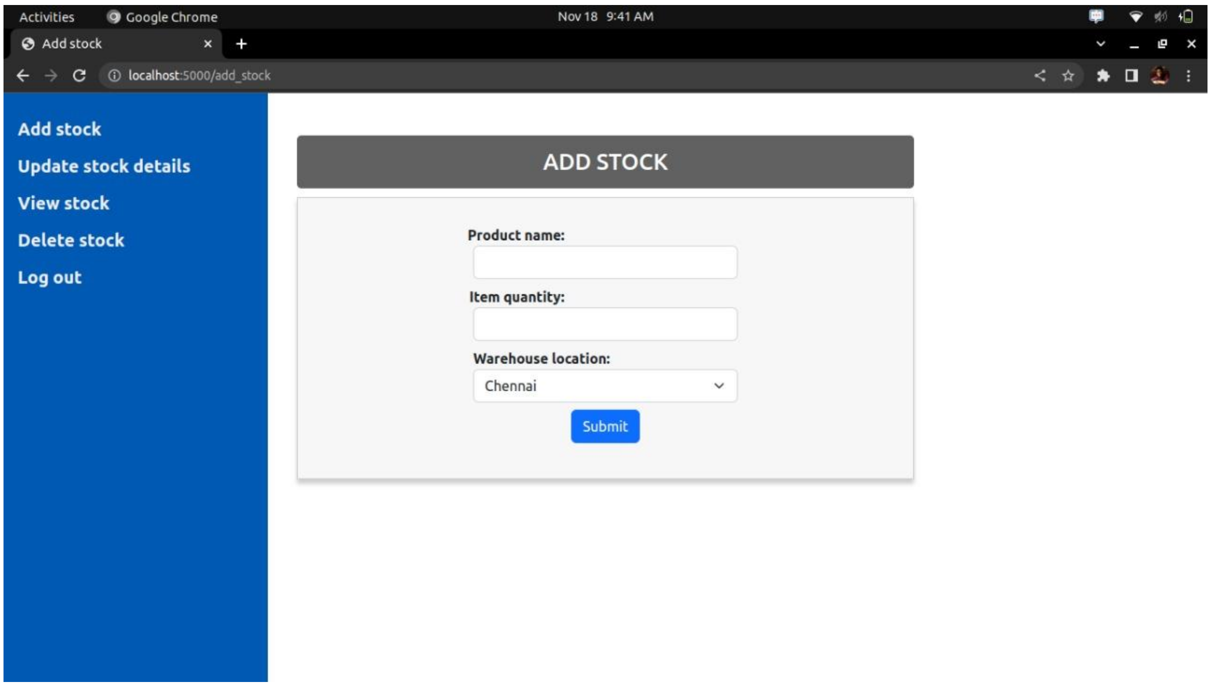
sankar

••••••

Login

Don't have an account yet? Click here to register!





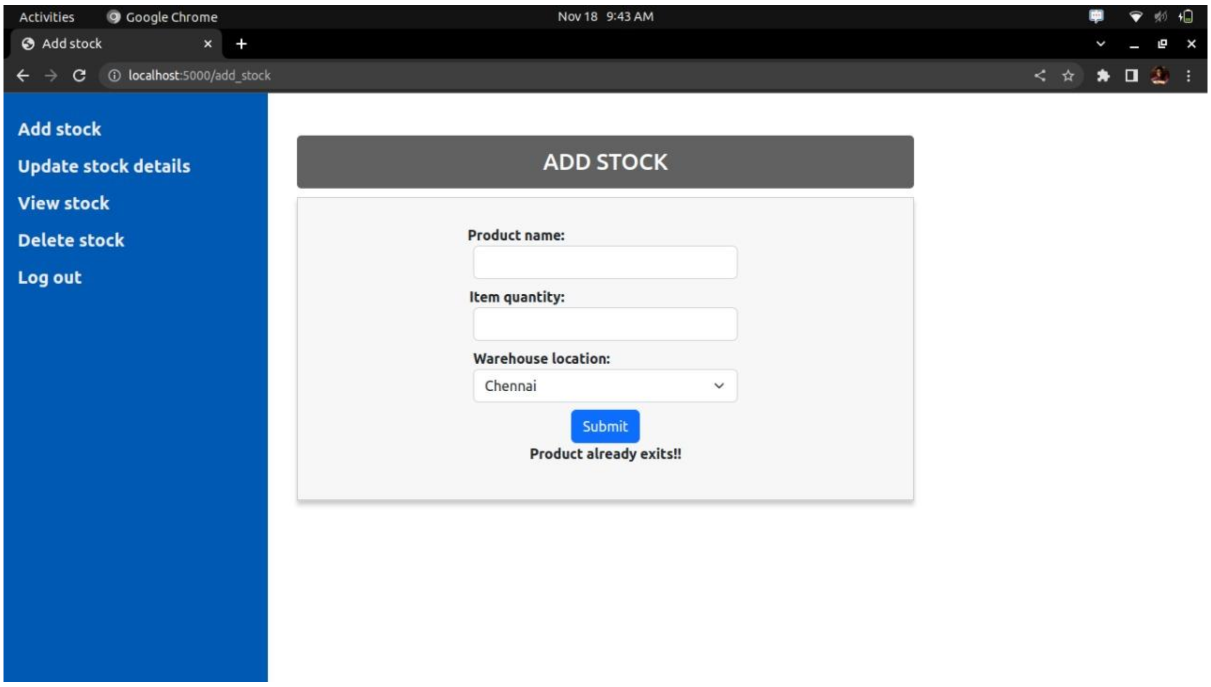
ADD STOCK

Product name:

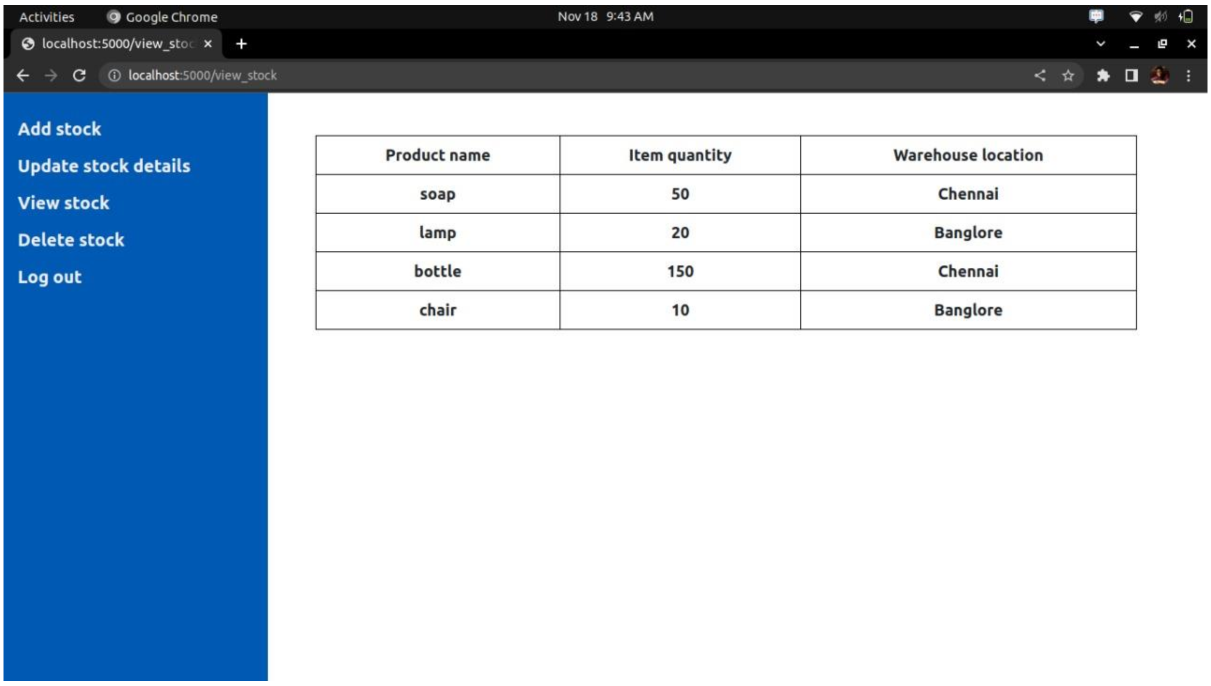
Item quantity:

Warehouse location: Chennai

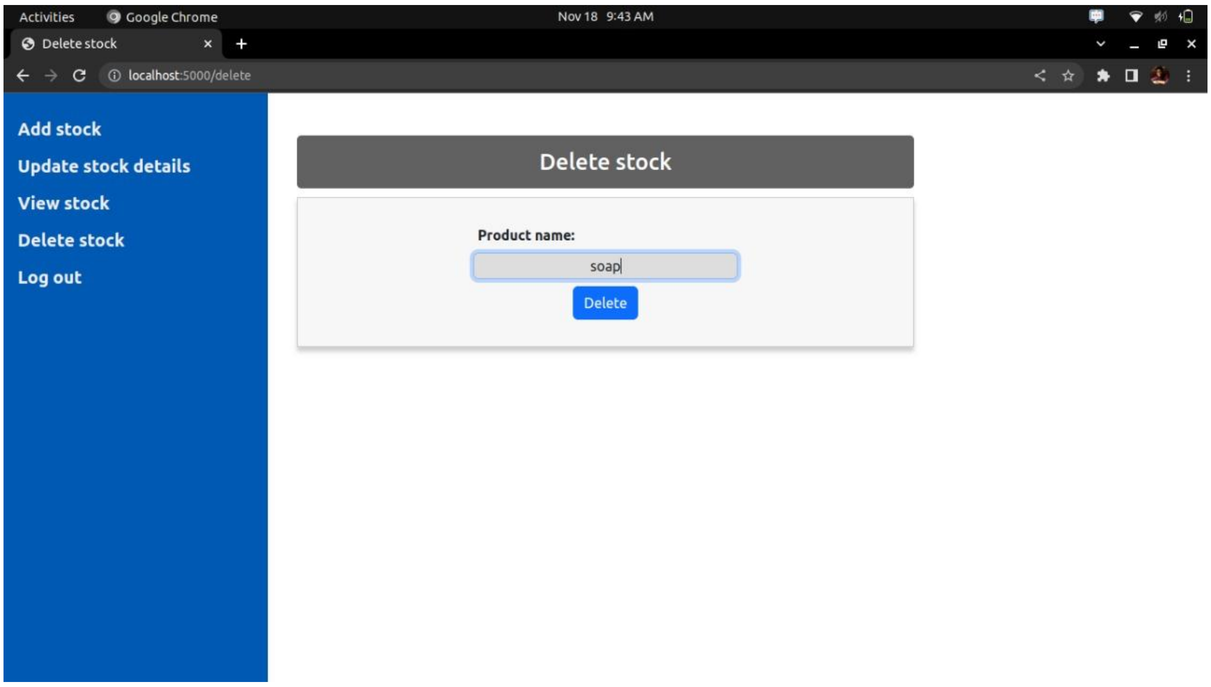
Submit



Product already exits!!



Product name	Item quantity	Warehouse location
soap	50	Chennai
lamp	20	Banglore
bottle	150	Chennai
chair	10	Banglore


Activities Google Chrome Nov 18 9:43 AM

Delete stock

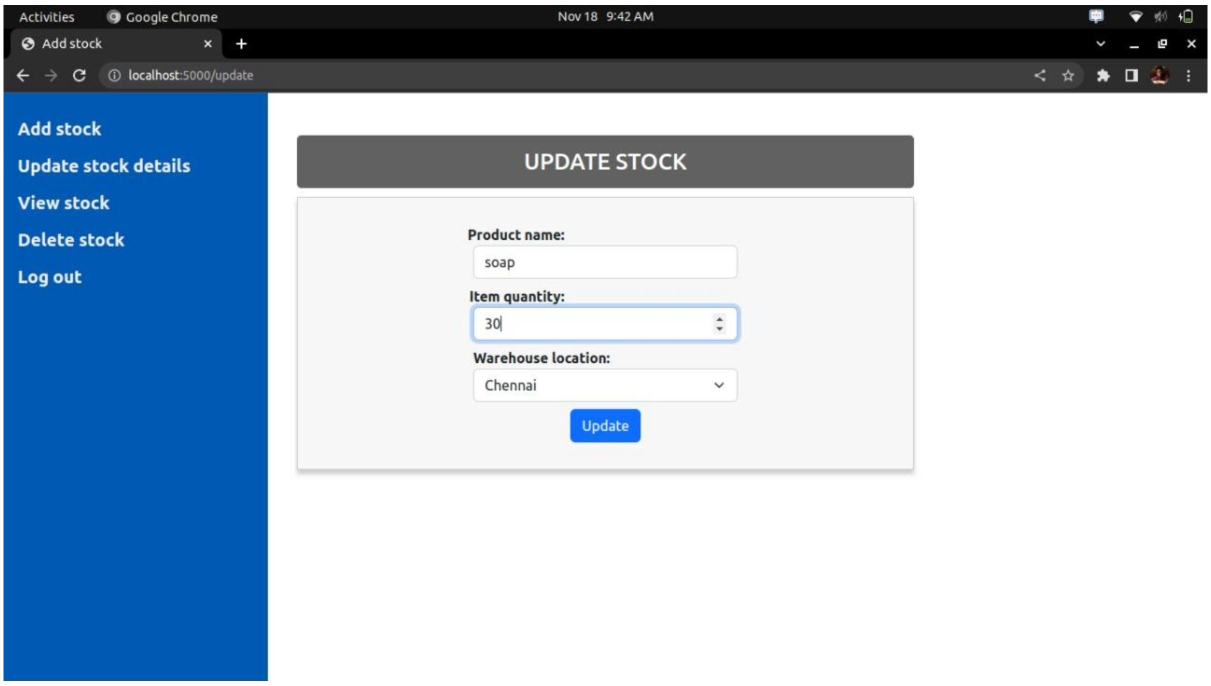
localhost:5000/delete

Add stock
Update stock details
View stock
Delete stock
Log out

Delete stock

Product name: soap

Delete


Activities Google Chrome Nov 18 9:42 AM

Add stock

localhost:5000/update

Add stock
Update stock details
View stock
Delete stock
Log out

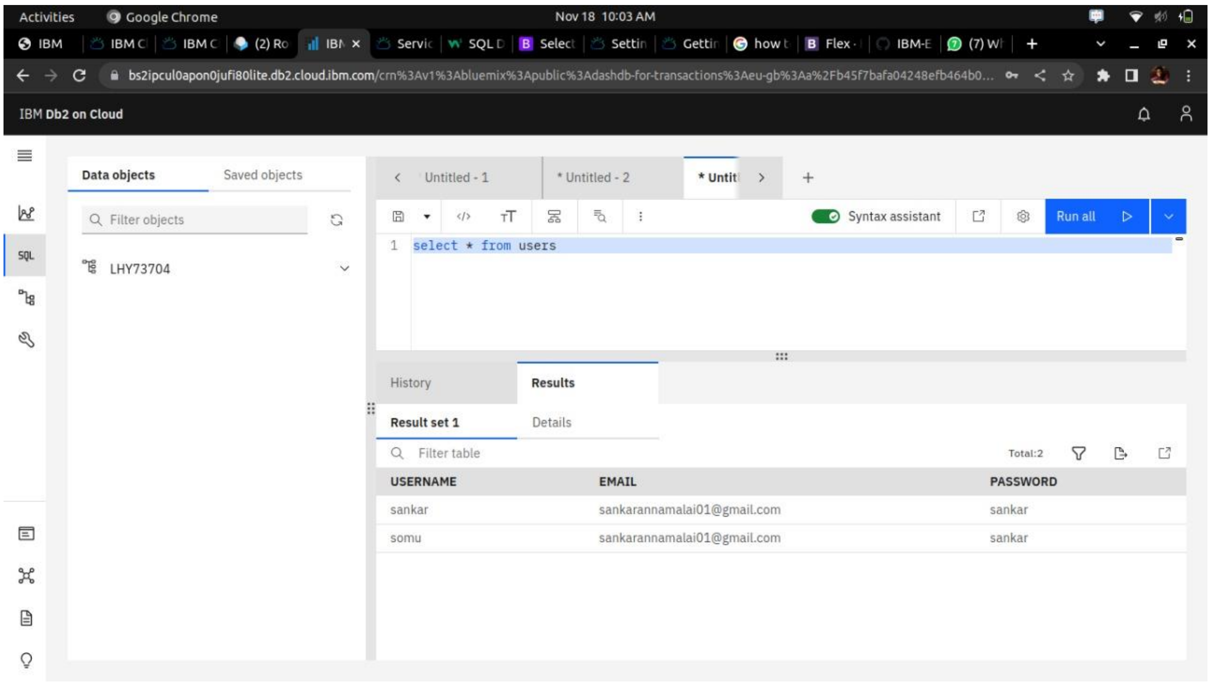
UPDATE STOCK

Product name: soap

Item quantity: 30

Warehouse location: Chennai

Update



```
select * from users
```

USERNAME	EMAIL	PASSWORD
sankar	sankarannamalai01@gmail.com	sankar
somu	sankarannamalai01@gmail.com	sankar