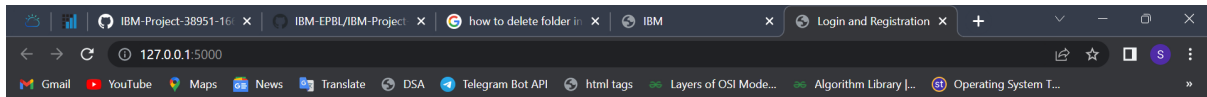


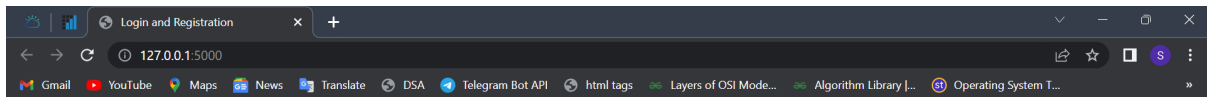
Login and Registration

Date	
Team ID	PNT2022TMID43303
Project Name	Inventory Management System for Retailers



Login Form

Not a member? [Signup now](#)



Code

```
@app.route('/login', methods = ['POST'])
def login_check():
    """
    Handles the login process
    :return: Login page
    """

    # capture the username and the password entered by the user and remove trailing and
    leading whitespaces
    username = request.form['uname'].rstrip().rstrip()
    entered_password = request.form['password']

    hash_object = sha256(entered_password.encode())
    hashed_entered_password = hash_object.hexdigest()

    # get the expected password corresponding to the username
    expected_password = fetch_password(username)

    if not expected_password:
        # if expected password is not found in the database, it means no such account is
        registered yet.
        return render_template('login.html', err_msg = 'Register an account first!')
    elif hashed_entered_password != expected_password:
        # if the entered and expected password don't match, it means the password entered is
        wrong.
        return render_template('login.html', err_msg = 'Wrong username or password')
    else:
        # if no errors occur, log the user in and create a session.
        session.update({'username': username})

        # fetch the inventory items corresponding to the user. It's stored in the form of a JSON
        as CLOB
        tableContents = fetch_table_contents(username)

        # the value returned above will be of the form list[tuple[str/int/float, str/int/float, ...]]
        if tableContents[0][0] is not None:
            # if the contents are actually present, convert the JSON to python Dict.
            tableContents = loads(tableContents[0][0])
            # print(tableContents['cid'][1])
        else:
            # if no content is present, pass an empty list to the template which will be evaluated
            as 'false' by the
            # jinja2 template engine.
            tableContents = []

    return render_template('dashboard.html', greeting=f'Hello, {username}!',
```

```

        tableContents=tableContents)

# unreachable code. It's there because I'm paranoid.
return 'You weren\'t supposed to be here :/'

@app.route('/signup', methods=['POST'])
def signup():
    """
    Handles the signup process.
    :return: Signup Webpage or Dashboard
    """

    # capture the details passed from the form and remove trailing and leading whitespaces.
    fullName = request.form.get('fname').lstrip().rstrip()
    username = request.form.get('uname').lstrip().rstrip()
    email = request.form.get('email').lstrip().rstrip()
    password = request.form.get('password')
    mobile = request.form.get('mobile').lstrip().rstrip()

    hash_object = sha256(password.encode())
    hashed_password = hash_object.hexdigest()

    try:
        # try to create account with the given details
        create_account(fullName, username, email, hashed_password, mobile)
    except IntegrityError:
        # integrity error means either NOT NULL or UNIQUE constraint has been violated.
        # the former being highly unlikely because of the validation checks in the front end.
        return render_template('login.html', err_msg = 'The account exists already. Please log
in.')
    else:
        # if no errors occur, log the user in and create a session.
        # session.update({'username': username})
        # redirect the user to the login procedure, code = 307 specifies to preserve the HTTP
method used originally
        # (POST in this case)
        return redirect(url_for('login_check'), code=307)
        # return render_template('dashboard.html', greeting = f'Welcome, {fullName.split()[0]}!
({username})')

# unreachable code
return 'You weren\'t supposed to be here. Please go back'

@app.route('/check-username', methods = ['POST'])
def check_username():
    """

```

```
Checks if the username is already present in the database or not.
:return: 'Exists' if present, else return the passed email itself.
"""
```

```
# get the passed email and remove leading and trailing whitespaces, if any.
passed_username = request.form.get('username').lstrip().rstrip()
# check if the email exists or not
exists = check_username_existence(passed_username)

if exists:
    return 'Exists', 403
return passed_username, 200
```

```
@app.route('/check-email', methods = ['POST'])
def check_email():
    """
```

```
Checks if the email is already present in the database or not.
:return: 'Exists' if present, else return the passed email itself.
"""
```

```
# get the passed email and remove leading and trailing whitespaces, if any.
passed_email = request.form.get('email').lstrip().rstrip()
# check if the email exists or not
exists = check_email_existence(passed_email)

if exists:
    return 'Exists', 403
return passed_email, 200
```

```
@app.route('/add-commodity', methods = ['POST'])
def add_commodity():
    # print(request.form)
```

```
details = request.form.to_dict()
tableContents = fetch_table_contents(session.get('username'))
```

```
if tableContents[0][0] is None:
    tableContents = {field: [] for field in FIELDS}
else:
    tableContents = loads(tableContents[0][0])
```

```
if details.get('cid') in list(tableContents.values())[0]:
    return f"Item {details.get('cid')} already exists.", 400
```

```
for key, value in tableContents.items():
```

```
value.append(details.get(key))

details_json = dumps(tableContents)
print(details_json)
print(details)

try:
    add_details_to_db(session.get('username'), details_json)
except Exception as exception:
    print(exception)
    return 'Something went wrong, try again', 403
else:
    return 'Details Added.', 200
    # return redirect(url_for('login_check'), code = 307)

return 'add req rcvd'
```

Some other codes like handling verification in the front end, storing in the database, verifying in backend etc. have been skipped for the sake of clarity.