User Interface to Interact with Application

Base.html:

```html
<html>
<head>
  <link rel="stylesheet" href="static/css/main.css">
  {% block head %}
  {% endblock %}
</head>
<body>
  {% block body %}
  {% endblock %}
</body>
</html>
```

Main.css:
```css
.login {   width: 60%;   border-radius: 1rem;   background: gray;
  padding: 10px;   margin: auto;   text-align: center;   font-family: 'Gill Sans',
  'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
}
.back{   background-color:
black;
}
.sub{   background-color: black;
color: white;
border-radius: 1rem;
}
.box{   border-radius: 1rem;
background-color: black;   color:
white;
}
```

Dashboard.html:

```html
{% extends 'base.html' %}
```

```
{% block head %}
<title>Login</title>
{% endblock %}
{% block body %}
<br><br><br><br><br>   <br><br><br><br><br>
<div class="login">
  <h1>
    Welcome to dashboard.. {{ msg }}
  </h1>
  <hr>
</div>
{% endblock %}
```

Login.html:

```
{% extends 'base.html' %}
{% block head %}
<title>Login</title>
{% endblock %}
{% block body %}
<br><br><br><br><br><br><br>
<div class="login">
  <h1>
    Login
  </h1>
  <hr>
  <form action="/login" method="POST">
    <br>
    username: <input type="text" class="box" name="username" id="username"><br><br>
    Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>
    <input type="submit" class="sub" value="Sign in">
  </form>
```

Don't have account? Sign up

</div>

{% endblock %}

Signup.html:

{% extends 'base.html' %}

{% block head %}

<title>Login</title>

{% endblock %}

{% block body %}

<div class="login">

  <h1>

    Sign Up

  </h1>

  <hr>

  <form action="/signup" method="POST">

    username: <input type="text" class="box" name="username" id="username">

email: <input type="text" class="box" name="email" id="eamil">

    Password: <input type="password" class="box" name="passwd" id="passwd">

    <input type="submit" class="sub" value="Sign up">

  </form>

  Already have an account? Login

</div>

{% endblock %}

App.py:

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

import ibm_db import re import ibm_db_dbi app = Flask(__name__)

app.secret_key = 'a'

```python
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-
a1f523dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURIT
Y=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xyn12614;PWD=oXjOuam0AOYeLVKq
", '', '')


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

def login():    global userid

msg = ''    if request.method

== 'POST':

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

request.form['passwd']        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 user credentials'            return

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

    else:

        return render_template('login.html')


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

def  signup():        if  request.method  ==  "POST":

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

```python
        request.form['email']                password =
        request.form['passwd']        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 = 'Acccount already exists'        elif not
        re.match(r'[^@]+@[^@]+\.[^@]+', email):
                msg = 'invalid email'        elif not
        re.match(r'[A-Za-z0-9]+', username):
                msg = 'name must contain charectors 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)
                print("successs")        msg = "succesfully signed
        up"                return render_template('dashboard.html',
        msg=msg)
            else:
                return render_template('signup.html')


        if __name__ == '__main__':
        app.run(debug=False)
```
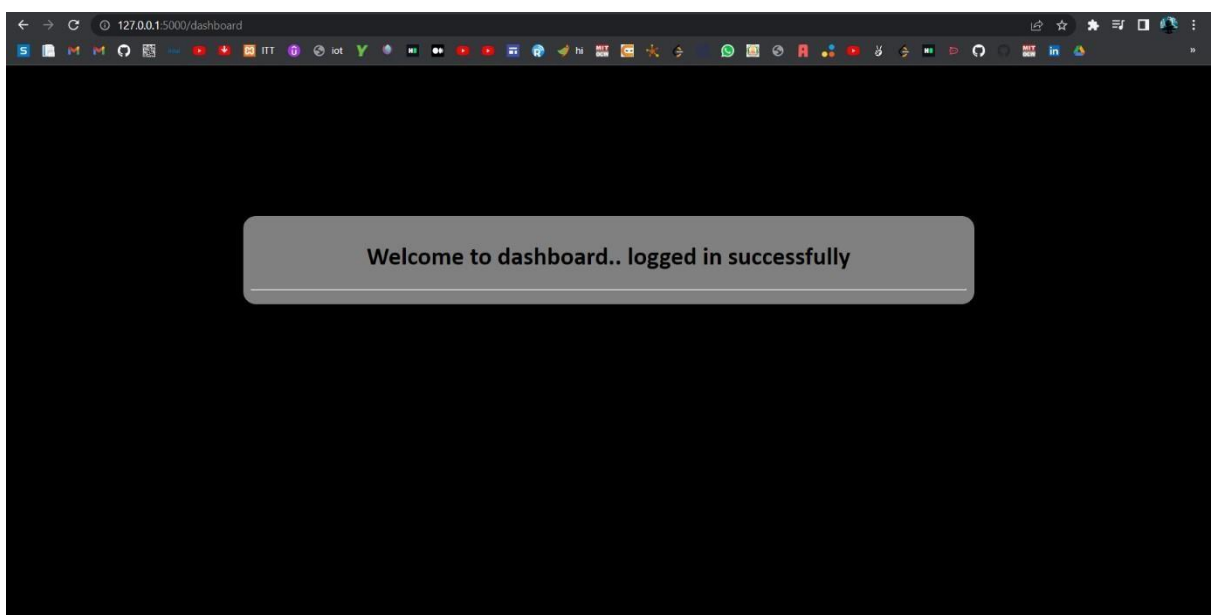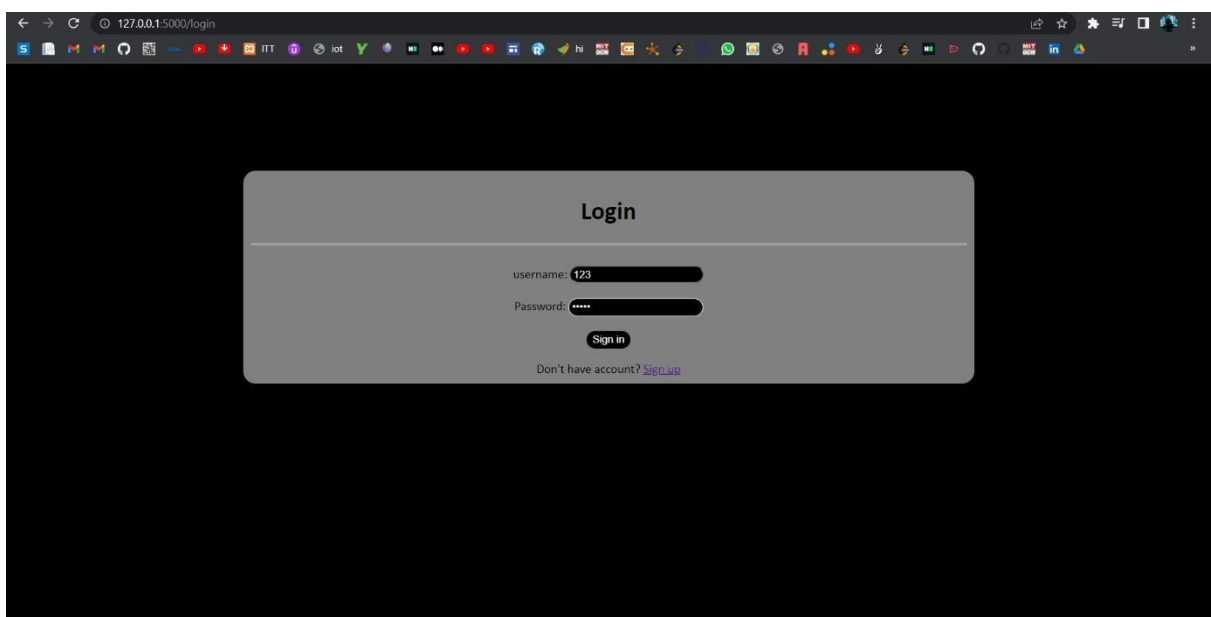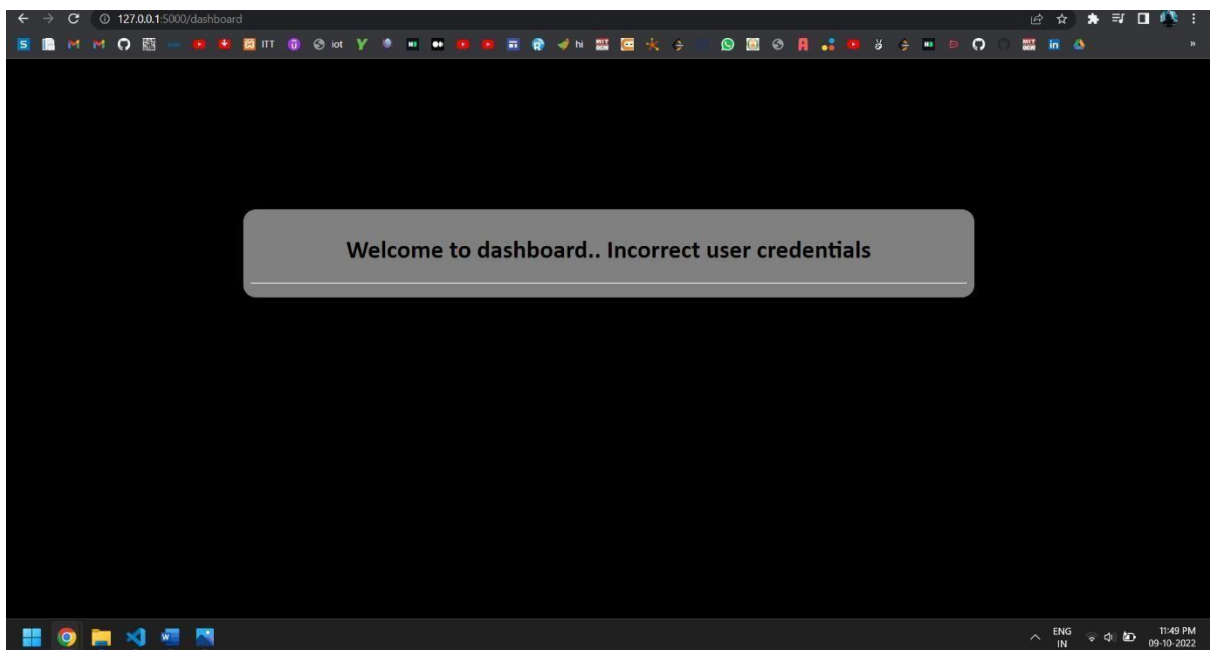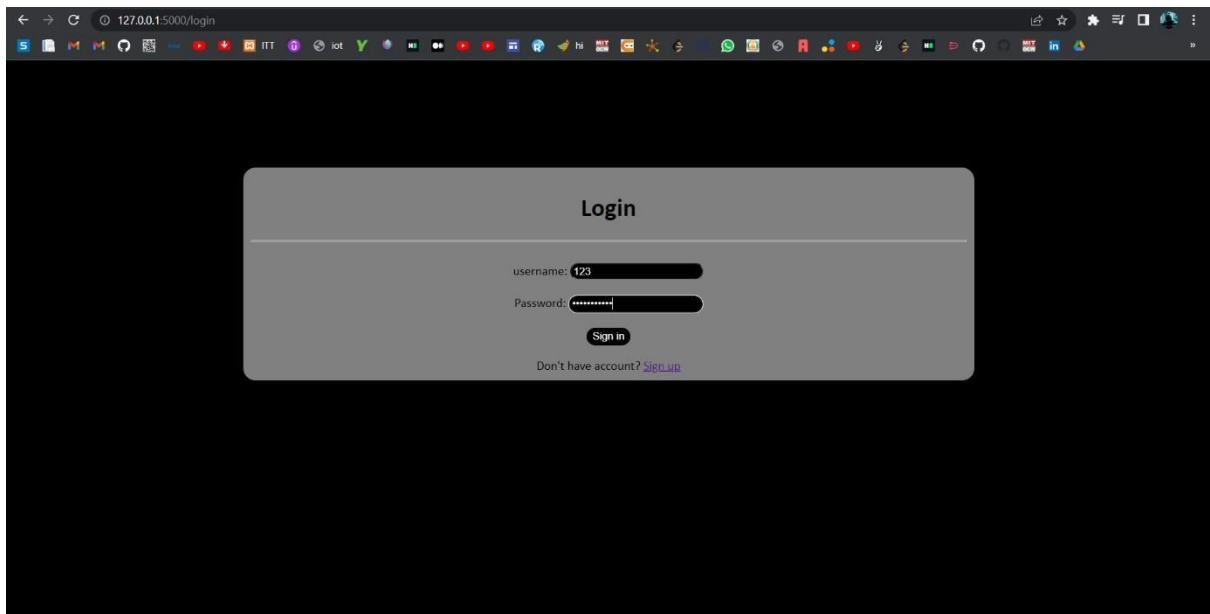**Output:**

Login:
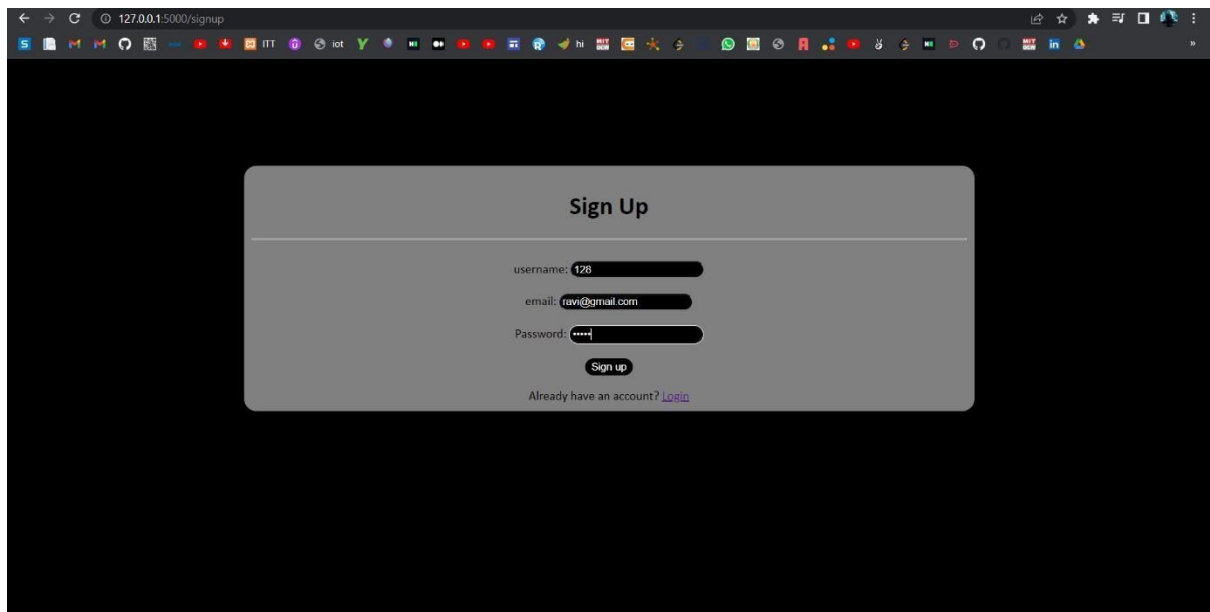
With correct credentials:

With wrong credentials:

Sign up: