

Code:**App.py:**

```
from flask import Flask, render_template, request, redirect, session
import ibm_db
import re
app = Flask(__name__)
# for connection
try:
    app.secret_key = 'a'

    conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-
    23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURIT
    Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xyn12614;PWD=oXjOuam0A
    OYeLVKq", "", "")
except:
    print("can't connect")
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail
message = Mail(
    from_email='from_email@example.com',
    to_emails='to@example.com',
    subject='Sending with Twilio SendGrid is Fun',
    html_content='<strong>and easy to do anywhere, even with Python</strong>')
try:
    sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
    response = sg.send(message)
    print(response.status_code)
    print(response.body)
    print(response.headers)
except Exception as e:
    print(e.message)
@app.route('/signup', methods=['GET', 'POST'])
def signup():
    global userid
    msg = ""
    if request.method == 'POST':
        username = request.form['username']
        name = request.form['name']
        email = request.form['email']
        phn = request.form['phn']
        password = request.form['pass']
        repass = request.form['repass']
        print("inside checking")
        print(name)
        if len(username) == 0 or len(name) == 0 or len(email) == 0 or len(phn)
        == 0 or len(password) == 0 or len(repass) == 0:
```

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msg = "Form is not filled completely!!"
print(msg)
return render_template('signup.html', msg=msg)
elif password != repass:
msg = "Password is not matched"
print(msg)
return render_template('signup.html', msg=msg)
elif not re.match(r'[a-z]+', username):
msg = 'Username can contain only small letters and numbers'
print(msg)
return render_template('signup.html', msg=msg)
elif not re.match(r'^[@]+\.[^@]+', email):
msg = 'Invalid email'
print(msg)
return render_template('signup.html', msg=msg)
elif not re.match(r'[A-Za-z]+', name):
msg = "Enter valid name"
print(msg)
return render_template('signup.html', msg=msg)
elif not re.match(r'[0-9]+', phn):
msg = "Enter valid phone number"
print(msg)
return render_template('signup.html', msg=msg)
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'
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, name)
ibm_db.bind_param(prepare_stmt, 3, email)
ibm_db.bind_param(prepare_stmt, 4, phn)
ibm_db.bind_param(prepare_stmt, 5, password)
ibm_db.execute(prepare_stmt)
print("successs")
msg = "succesfully signed up"
return render_template('dashboard.html', msg=msg, name=name)
else:
return render_template('signup.html')
@app.route('/dashboard')
def dashboard():
return render_template('dashboard.html')

```

```

@app.route('/login', methods=["GET", "POST"])
def login():
    global userid
    msg = ""
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['pass']
        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', name=account['name'])
        else:
            msg = 'Incorrect user credentials'
            return render_template('dashboard.html', msg=msg)
        else:
            return render_template('login.html')
    @app.route('/admin')
    def admin():
        return render_template('admin.html')
    @app.route('/about')
    def about():
        return render_template('about.html')
    @app.route('/privacyterms')
    def privacyterms():
        return render_template('privacyterms.html')
    if __name__ == "__main__":
        app.run(debug=True)

```

Signup.html:

```

{% extends 'base.html' %}
{% block head %}
<title>
Sign Up
</title>
{% endblock %}
{% block body %}
<div class="forpadding">

```

```
<!-- for box of the signup form -->
<div class="sign">
<div>
<p class="fortitle">
Register Now!!
</p>
<hr>
<form action="/signup" method="post">
<div class="forform">
<div class="textinformleft">
Username
</div>
<div class="textinformright">
<input type="name" name="username">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Name
</div>
<div class="textinformright">
<input type="name" name="name">
</div>
</div>
<div class="forform">
<div class="textinformleft">
E - mail
</div>
<div class="textinformright">
<input type="name" name="email">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Phone Number
</div>
<div class="textinformright">
<input type="name" name="phn">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Password
</div>
<div class="textinformright">
<input type="password" name="pass">
</div>
</div>
```

```

<div class="forform">
<div class="textinformleft">
Re - enter Password
</div>
<div class="textinformright">
<input type="password" name="repass">
</div>
</div>
<br>
<div>
<button class="forbutton" type="submit"> Sign up
>></button>
</div>
</form>
<br>
<div>
{{msg}}
</div>
<br>
<div>
Already have an account? <a href="/login">Sign in</a>
</div>
<br>
</div>
</div>
</div>
{% endblock %}

```

Login.html:

```

{% extends 'base.html' %}
{% block head %}
<title>
Login
</title>
{% endblock %}
{% block body %}
<div class="forpadding">
<!-- for box of the signup form -->
<div class="sign">
<div>
<p class="fortitle">
Sign In
</p>
<hr>
<form action="/login" method="post">
<div class="forform">
<div class="textinformleft">

```

```

Username
</div>
<div class="textinformright">
<input type="name" name="username">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Password
</div>
<div class="textinformright">
<input type="password" name="pass">
</div>
</div>
<br>
<div>
<button class="forbutton" type="submit"> Sign In
>></button>
</div>
</form>
<br>
<div>
New user? <a href="/signup">Sign up</a>
</div>
<br>
</div>
</div>
</div>
{% endblock %}

```

Dashboard.html:

```

{% extends 'base.html' %}
{% block head %}
<title>
Dashboard
</title>
{% endblock %}
{% block body %}
<!-- things
div 1
welcome jetson, sign out
div 2
your complaints status
add new complaint -->
<br>
<div class="fordashboardtop">

```

```

<div class="fordashboardtopelements1">
Welcome Ravi,
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outherofdashdetails">
<div class="fordashboarddetails">
<br>
<!-- table of customers complaints -->
<table class="fortable">
<thead>
<th class="pad">Complaint Detail</th>
<th>Assigned Agent</th>
<th>Status</th>
<th>More details</th>
</thead>
<tbody>
<tr>
<td class="pad">
Network Issue
</td>
<td>
Dr.Raj
</td>
<td>
Not Completed
</td>
<td>
<a href="">Click Here >></a>
</td>
</tr>
</tbody>
</table>
<br>
<center>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton2">Add new complaint
+</button></a>
</div>
</center>
</div>
</div>
{% endblock %}

```

Base.html :

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