

Code:**Admin.html**

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

```

<!-- <br>
{% for i in range(11) %}
{{i}}
{% endfor %}
<br>
{% for i in complaints %}
{{ i['USERNAME'] }}
<br>
{% for j in i.values() %}
{{j}}
{% endfor %}
<br>
{% endfor %} -->
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
Welcome Admin,
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
<!-- table of customers complaints -->
<table class="fortable">
<thead>
</thead>
<tbody>
<tr>
<td class="pad">
<a href="/agents">Agent Details</a>
</td>
<td class="pad">
<a href="/tickets">Customer Ticket Details</a>
</td>
</tr>
</tbody>
</table>
<br>
</div>
</div>
{% endblock %}

```

Agentdas.html

```
{% extends 'base.html' %}
{% block head %}
<title>
Agent Dashboard
</title>
{% endblock %}
{% block body %}
<!-- things
div 1
welcome jetson, sign out
div 2
your complaints status
add new complaint -->
<br>
<!-- <br>
{% for i in range(11) %}
{{i}}
{% endfor %}
<br>
{% for i in complaints %}
{{ i['USERNAME'] }}
<br>
{% for j in i.values() %}
{{j}}
{% endfor %}
<br>
{% endfor %} -->
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
Welcome {{ name }},
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
```

```

</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
<!-- table of customers complaints -->
<table class="fortable">
<thead>
<th>Complaint ID</th>
<th class="pad">Username</th>
<th>Title</th>
<th>Complaint</th>
<th>Solution</th>
<th>Status</th>
</thead>
<tbody>
{% for i in complaints %}
<tr>
<td class="pad">
{{ i['C_ID'] }}
</td>
<td class="pad">
{{ i['USERNAME'] }}
</td>
<td>
{{ i['TITLE'] }}
</td>
<td>
{{ i['COMPLAINT'] }}
</td>
<td>
{{ i['SOLUTION'] }}
</td>
<td>
{% if i['STATUS'] == 1 %}
Completed
{% else %}
Not Completed
{% endif %}
</td>
</tr>
{% endfor %}
</tbody>
</table>
<br>
<center>
<div class="fordashboarddetails">

```

```

<button type="button" class="collapsible">Solve an Issue ⚡ </button>
<div class="content">
<br>
<form action="/updatecomplaint" method="post">
<div class="forform">
<div class="textinformleft">
Complaint ID
</div>
<div class="textinformright">
<input type="text" name="cid">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Solution
</div>
<div class="textinformright">
<input type="text" name="solution">
</div>
</div>
<br>
<br>
<div>
<button class="forbutton" type="submit"> Submit </button>
</div>
</form>
<br>
</div>
</div>
</div>
</center>
</div>
</div>
{% endblock %}
Agents.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>
<!-- <br>
{% for i in range(11) %}
{{i}}
{% endfor %}
<br>
{% for i in complaints %}
{{ i['USERNAME'] }}
<br>
{% for j in i.values() %}
{{j}}
{% endfor %}
<br>
{% endfor %} -->
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
Welcome Admin,
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
<!-- table of customers complaints -->
<table class="fortable">
<thead>
<th class="pad">Name</th>

```

```

<th>Username</th>
<th>Email</th>
<th>Phone</th>
<th>Domain</th>
<th>Status</th>
</thead>
<tbody>
{% for i in agents %}
<tr>
<td class="pad">
{{ i['NAME'] }}
</td>
<td class="pad">
{{ i['USERNAME'] }}
</td>
<td>
{{ i['EMAIL'] }}
</td>
<td>
{{ i['PHN'] }}
</td>
<td>
{{ i['DOMAIN'] }}
</td>
<td>
{% if i['STATUS'] == 1 %}
Assigned to job
{% elif i['STATUS'] == 0 %}
not Available
{% else %}
Available
{% endif %}
</td>
</tr>
{% endfor %}
</tbody>
</table>
<br>
<center>
<div class="fordashboarddetails">
<button type="button" class="collapsible">Add new agent +</button>
<div class="content">
<br>
<form action="/addnewagent" 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">
Email
</div>
<div class="textinformright">
<input type="name" name="email">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Phone
</div>
<div class="textinformright">
<input type="name" name="phone">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Domain
</div>
<div class="textinformright">
<input type="name" name="domain">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Password
</div>
<div class="textinformright">
<input type="name" name="password">
</div>
</div>
<br>
<br>
<div>
<button class="forbutton" type="submit"> Submit </button>
</div>
</form>
<br>
```



```

</div>
</div>
</center>
</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>
<!-- <br>
{% for i in range(11) %}
{{i}}
{% endfor %}
<br>
{% for i in complaints %}
{{ i['USERNAME'] }}
<br>
{% for j in i.values() %}
{{ j }}

```

```

{% endfor %}
<br>
{% endfor %} -->
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
Welcome {{ name }},
</div>
<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
<!-- table of customers complaints -->
<table class="fortable">
<thead>
<th>Complaint ID</th>
<th class="pad">Complaint Detail</th>
<th>Assigned Agent</th>
<th>Status</th>
<th>Solution</th>
</thead>
<tbody>
{% for i in complaints %}
<tr>
<td>
{{ i['C_ID'] }}
</td>
<td class="pad">
{{ i['TITLE'] }}
</td>
<td>
{{ i['ASSIGNED_AGENT'] }}
</td>
<td>
{% if i['STATUS'] == 1 %}
Completed
{% elif i['STATUS'] == 0 %}
Not completed
{% else %}
In progress
{% endif %}
</td>
<td>
{{ i['SOLUTION'] }}
</td>
</tr>
{% endfor %}

```

```

</tbody>
</table>
<br>
<center>
<div class="fordashboarddetails">
<button type="button" class="collapsible">Add new complaint +</button>
<div class="content">
<br>
<form action="/addnew" method="post">
<div class="forform">
<div class="textinformleft">
Title
</div>
<div class="textinformright">
<input type="text" name="title">
</div>
</div>
<div class="forform">
<div class="textinformleft">
Complaint
</div>
<div class="textinformright">
<textarea name="des"
style="border-radius: 1rem;width: 90%;height: 150%;background-color:
black;color: white;"></textarea>
</div>
</div>
<br>
<br>
<div>
<button class="forbutton" type="submit"> Submit </button>
</div>
</form>
<br>
</div>
</div>
</center>
</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 %}
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 %}
Tickets.html
{% extends 'base.html' %}
{% block head %}
<title>
Agent Dashboard
</title>
{% endblock %}
{% block body %}
<!-- things
div 1
welcome jetson, sign out
div 2
your complaints status
add new complaint -->
<br>
<!-- <br>
{% for i in range(11) %}
{{i}}
{% endfor %}
<br>
{% for i in complaints %}
{{ i['USERNAME'] }}
<br>
{% for j in i.values() %}
{{j}}
{% endfor %}
<br>
{% endfor %} -->
<div class="fordashboardtop">
<div class="fordashboardtopelements1">
Welcome Admin,
</div>

```

```

<div class="fordashboardtopelements2">
<a href="/login"><button class="forbutton">Sign out</button></a>
</div>
</div>
<br>
<div class="outerofdashdetails">
<div class="fordashboarddetails">
<br>
<!-- table of customers complaints -->
<table class="fortable">
<thead>
<th>Complaint ID</th>
<th class="pad">Username</th>
<th>Title</th>
<th>Complaint</th>
<th>Solution</th>
<th>Status</th>
</thead>
<tbody>
{% for i in complaints %}
<tr>
<td>{{ i['C_ID'] }}</td>
<td class="pad">
{{ i['USERNAME'] }}
</td>
<td>
{{ i['TITLE'] }}
</td>
<td>
{{ i['COMPLAINT'] }}
</td>
<td>
{{ i['SOLUTION'] }}
</td>
<td>
{% if i['STATUS'] == 1 %}
Completed
{% else %}
Not Completed
{% endif %}
</td>
</tr>
{% endfor %}
</tbody>
</table>
<br>
<center>
<div class="fordashboarddetails">

```



```

<button type="button" class="collapsible">Assign an agent ⚡ </button>
<div class="content">
<br>
<form action="/assignagent" method="post">
<div class="forform">
<div class="textinformleft">
Complaint ID
</div>
<div class="textinformright">
<input type="name" name="ccid">
</div>
</div>
<div class="forform">
<div class="textinformleft">
<label for="agent">Choose an agent:</label>
</div>
<div class="textinformright">
<select name="agent" id="agent">
{% for i in freeagents %}
<option value={{ i['USERNAME'] }}>{{ i['USERNAME'] }}</option>
{% endfor %}
</select>
</div>
</div>
<br>
<br>
<div>
<button class="forbutton" type="submit"> Submit </button>
</div>
</form>
<br>
</div>
</div>
</center>
</div>
</div>
{% endblock %}

```

App.py:

```

from flask import Flask, render_template, request, redirect, session import
ibm_db
import re
app = Flask( name )
from flask import Flask, render_template, request, redirect, session, url_for
import ibm_db
import re
app = Flask(__name__)
# for connection
# conn= ""
app.secret_key = 'a'
print("Trying to connect...")
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-99de-440d-9991-
629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30119;SECURIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=qvk70423;PWD=saDlGasU4
iQy1yvk;", '', '')
print("connected..")
@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:
            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:
    userid = username
    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']
        userid = username
        password = request.form['pass']

```

```

if userid == 'admin' and password == 'admin':
    print("its admin")
    return render_template('admin.html')
else:
    sql = "select * from agents 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'
        # for getting complaints details
        sql = "select * from complaints where assigned_agent = ?"
        complaints = []
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.execute(stmt)
        dictionary = ibm_db.fetch_assoc(stmt)
        while dictionary != False:
            complaints.append(dictionary)
            dictionary = ibm_db.fetch_assoc(stmt)
        print(complaints)
        return render_template('agentdash.html', name=account['USERNAME'],
                               complaints=complaints)
    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'
        # for getting complaints details
        sql = "select * from complaints where username = ?"
        complaints = []
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.execute(stmt)
        dictionary = ibm_db.fetch_assoc(stmt)

```

```

while dictionary != False:
# print "The ID is : ", dictionary["EMPNO"]
# print "The Name is : ", dictionary[1]
complaints.append(dictionary)
dictionary = ibm_db.fetch_assoc(stmt)
print(complaints)
return render_template('dashboard.html', name=account['USERNAME'],
complaints=complaints)
else:
msg = 'Incorrect user credentials'
return render_template('dashboard.html', msg=msg)
else:
return render_template('login.html')
@app.route('/addnew', methods=["GET", "POST"])
def add():
if request.method == 'POST':
title = request.form['title']
des = request.form['des']
try:
sql = "insert into complaints(username,title,complaint) values(?,?,?)"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, userid)
ibm_db.bind_param(stmt, 2, title)
ibm_db.bind_param(stmt, 3, des)
ibm_db.execute(stmt)
except:
print(userid)
print(title)
print(des)
print("cant insert")
sql = "select * from complaints where username = ?"
complaints = []
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, userid)
ibm_db.execute(stmt)
dictionary = ibm_db.fetch_assoc(stmt)
while dictionary != False:
# print "The ID is : ", dictionary["EMPNO"]
# print "The Name is : ", dictionary[1]
complaints.append(dictionary)
dictionary = ibm_db.fetch_assoc(stmt)
print(complaints)
return render_template('dashboard.html', name=userid, complaints=complaints)
@app.route('/agents')
def agents():
sql = "select * from agents"

```

```

agents = []
stmt = ibm_db.prepare(conn, sql)
ibm_db.execute(stmt)
dictionary = ibm_db.fetch_assoc(stmt)
while dictionary != False:
    agents.append(dictionary)
    dictionary = ibm_db.fetch_assoc(stmt)
return render_template('agents.html', agents=agents)
@app.route('/addnewagent', methods=["GET", "POST"])
def addagent():
    if request.method == 'POST':
        username = request.form['username']
        name = request.form['name']
        email = request.form['email']
        phone = request.form['phone']
        domain = request.form['domain']
        password = request.form['password']
        try:
            sql = "insert into agents values(?,?,?,?,?,2)"
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, username)
            ibm_db.bind_param(stmt, 2, name)
            ibm_db.bind_param(stmt, 3, email)
            ibm_db.bind_param(stmt, 4, phone)
            ibm_db.bind_param(stmt, 5, password)
            ibm_db.bind_param(stmt, 6, domain)
            ibm_db.execute(stmt)
        except:
            print("cant insert")
            sql = "select * from agents"
            agents = []
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.execute(stmt)
            dictionary = ibm_db.fetch_assoc(stmt)
            while dictionary != False:
                agents.append(dictionary)
                dictionary = ibm_db.fetch_assoc(stmt)
            return render_template('agents.html', agents=agents)
@app.route('/updatecomplaint', methods=["GET", "POST"])
def updatecomplaint():
    if request.method == 'POST':
        cid = request.form['cid']
        solution = request.form['solution']
        try:
            sql = "update complaints set solution =? where c_id = ? and assigned_agent=?"
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, solution)

```

```

ibm_db.bind_param(stmt, 2, cid)
ibm_db.bind_param(stmt, 3, userid)
ibm_db.execute(stmt)
sql = "update agents set status =3 where username=?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, userid)
ibm_db.execute(stmt)
except:
print("cant insert")
sql = "select * from complaints where assigned_agent = ?"
complaints = []
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, userid)
ibm_db.execute(stmt)
dictionary = ibm_db.fetch_assoc(stmt)
while dictionary != False:
complaints.append(dictionary)
dictionary = ibm_db.fetch_assoc(stmt)
# print(complaints)
return render_template('agentdash.html', name=userid, complaints=complaints)
@app.route('/tickets')
def tickets():
sql = "select * from complaints"
complaints = []
stmt = ibm_db.prepare(conn, sql)
ibm_db.execute(stmt)
dictionary = ibm_db.fetch_assoc(stmt)
while dictionary != False:
complaints.append(dictionary)
dictionary = ibm_db.fetch_assoc(stmt)
sql = "select username from agents where status <> 1"
freeagents = []
stmt = ibm_db.prepare(conn, sql)
ibm_db.execute(stmt)
dictionary = ibm_db.fetch_assoc(stmt)
while dictionary != False:
freeagents.append(dictionary)
dictionary = ibm_db.fetch_assoc(stmt)
print(freeagents)
return render_template('tickets.html', complaints=complaints,
freeagents=freeagents)
@app.route('/assignagent', methods=['GET', 'POST'])
def assignagent():
if request.method == "POST":
ccid = request.form['ccid']
agent = request.form['agent']
print(ccid)

```

```
print(agent)
try:
    sql = "update complaints set assigned_agent =? where c_id = ?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, agent)
    ibm_db.bind_param(stmt, 2, ccid)
    ibm_db.execute(stmt)
    sql = "update agents set status =1 where useername = ?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, userid)
    ibm_db.execute(stmt)
except:
    print("cant update")
    return redirect(url_for('tickets'))
@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)
```