

Sprint 3:

Sending email:

importing the modules

```
import config

import MySQLdb.cursors

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

from flask_mail import Mail, Message

from flask_mysql import MySQL

from passlib.hash import pbkdf2_sha256
```

app config

```
app = Flask(__name__)

app.config['MYSQL_HOST'] = 'remotemysql.com'

app.config['MYSQL_USER'] = 'SwrLJGL8es'

app.config['MYSQL_PASSWORD'] = 'YTge7VgOcl'

app.config['MYSQL_DB'] = 'SwrLJGL8es'

app.config['MAIL_SERVER'] = 'smtp.gmail.com'

app.config['MAIL_PORT'] = 465

app.config['MAIL_USERNAME'] = 'customercareregistry@gmail.com'

app.config['MAIL_PASSWORD'] = 'musrtfopysfzcrx'

app.config['MAIL_USE_SSL'] = True

app.config['MAIL_USE_TLS'] = False

mysql = MySQL(app)

app.secret_key = 'returnzero'

mail = Mail(app)
```

routes

home

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

```

def home():

    if ('user' not in session.keys()) or (session['user'] == None):

        return redirect(url_for('login'))

    else:

        cursor = mysql.connection.cursor()

        cursor.execute("SELECT * FROM User WHERE id = % s",[session['user']])

        userdetails = cursor.fetchone()

        if userdetails[3] == 2:

            return render_template("home.html",user=userdetails)

        elif userdetails[3] == 1:

            cursor.execute("SELECT * FROM Tickets WHERE agent=%s",[session['user']])

            tickets = cursor.fetchall()

            return render_template("home.html",user=userdetails,tickets=tickets)

        else:

            if request.method == "POST":

                title = request.form['title']

                description = request.form['description']

                cust_id = session['user']

                cursor = mysql.connection.cursor()

                cursor.execute("INSERT INTO Tickets(customer,title,description) VALUES(%s,%s,%s)",(cust_id,title,description))

                mysql.connection.commit()

                cursor.execute("SELECT * FROM User WHERE id = % s",[session['user']])

                userdetails = cursor.fetchone()

                cursor.execute("SELECT * FROM Tickets WHERE customer = %s",[session['user']])

                tickets = cursor.fetchall()

                return render_template("home.html",msg="Ticket Filed",user=userdetails,tickets=tickets)

            cursor = mysql.connection.cursor()

            cursor.execute("SELECT * FROM User WHERE id = % s",[session['user']])

            userdetails = cursor.fetchone()

            cursor.execute("SELECT * FROM Tickets WHERE customer = %s",[session['user']])

            tickets = cursor.fetchall()

```

```
return render_template("home.html",user=userdetails,tickets=tickets)
```

user account registration

```
@app.route("/register",methods=["GET","POST"])

def register_account():

    if request.method == "POST":

        username = request.form['username']

        email = request.form['email']

        password = request.form['password']

        hashed_password = pbkdf2_sha256.hash(password)

        cursor = mysql.connection.cursor()

        cursor.execute("INSERT INTO User(username,email,password,role)
VALUES(%s,%s,%s,%s)",(username,email,hashed_password,0))

        mysql.connection.commit()

        msg = Message('registration customer care',sender='customercareregistry@gmail.com',
            recipients=[email]
        )

        msg.body = ""

        Account creation in customer care registry was successful.

        for raising tickets, login with your email id and password.

        Thank You

    ""

    mail.send(msg)

    return redirect(url_for("login"))

return render_template("register.html")
```

login

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

def login():

    if request.method == "POST":

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

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

cursor = mysql.connection.cursor()

cursor.execute("SELECT * FROM User WHERE email = % s",[email])

userdetails = cursor.fetchone()

if userdetails:

    if pbkdf2_sha256.verify(password,userdetails[2]):

        session['user'] = userdetails[4]

        return redirect(url_for("home"))

    else:

        msg = "Incorrect Password"

else:

    msg = "User does not exist"

return render_template("login.html",msg=msg)

return render_template("login.html")
```

logout

```
@app.route("/logout")
```

```
def logout():
```

```
    session['user'] = None

    return redirect(url_for("home"))
```

ticket detail

```
@app.route("/ticket/<int:id>",methods=["GET","POST"])
```

```
def ticket_detail(id):
```

```
    cursor = mysql.connection.cursor()

    cursor.execute("SELECT * FROM Tickets WHERE id=%s",[id])

    ticket = cursor.fetchone()

    cursor.execute("SELECT * FROM User WHERE id=%s",[ticket[1]])

    customer = cursor.fetchone()

    cursor.execute("SELECT * FROM User WHERE id=%s",[session['user']])

    user = cursor.fetchone()
```

```

cursor.execute("SELECT * FROM User WHERE role=1")

all_users = cursor.fetchall()

cursor.execute("SELECT * FROM User WHERE id=%s",[ticket[2]])

agent = cursor.fetchone()

if agent is None:

    agent = [None,None]

if user is None:

    return redirect(url_for("login"))

if request.method == "POST":

    agent = request.form['agent']

    cursor.execute("UPDATE Tickets SET agent= %s WHERE id = %s",(agent,id))

    cursor.execute("UPDATE Tickets SET progress='assigned' WHERE id = %s",[id])

    mysql.connection.commit()

    cursor.execute("SELECT email FROM User WHERE id=%s",[agent])

    agent_mail = cursor.fetchone()[0]

    msg = Message('Assigned Ticket',sender='customercareregistry@gmail.com',

        recipients=[agent_mail]

    )

```

send mail to agent

```

msg = Message('Assigned Ticket',sender='customercareregistry@gmail.com',

    recipients=[agent_mail]

)

cursor.execute("SELECT email FROM User WHERE id=%s",[ticket[1]])

customer = cursor.fetchone()[0]

msg.body = f'''

    You have been assigned a ticket.

    Ticket Title: {ticket[3]}

    posted by: {customer}

'''

mail.send(msg)

```

send mail to customer

```
msg = Message('Ticked Progress',sender='customercareregistry@gmail.com',
    recipients=[customer]
)

msg.body = f'''

Dear Customer,

Your Ticket progress has been Updated and

Assigned to an Agent of ours.

Agent : {agent_mail}

'''

mail.send(msg)

return redirect(url_for("panel"))

return render_template("details.html",ticket=ticket,agent=agent,customer=customer,user=user,all_users=all_users)
```

admin register

```
@app.route("/admin/register",methods=["GET","POST"])
```

```
def admin_register():
```

```
    if request.method == "POST":
```

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

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

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

```
        secret_key = request.form['secret']
```

```
        if secret_key == "12345":
```

```
            hashed_password = pbkdf2_sha256.hash(password)
```

```
            cursor = mysql.connection.cursor()
```

```
            cursor.execute("INSERT INTO User(username,email,password,role)
VALUES(%s,%s,%s,%s)",(username,email,hashed_password,2))
```

```
            mysql.connection.commit()
```

```
            return redirect(url_for("login"))
```

```
        else:
```

```
            return render_template("admin_register.html",msg="Invlaid Secret")
```

```
return render_template("admin_register.html")
```

promote agent

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

```
def panel():
```

```
    id = session['user']
```

```
    if id is None:
```

```
        return redirect("login")
```

```
    cursor = mysql.connection.cursor()
```

```
    cursor.execute("SELECT * FROM User WHERE id=%s",[id])
```

```
    user_details = cursor.fetchone()
```

```
    if user_details[3] != 2:
```

```
        return "You do not have administrator privileges"
```

```
    else:
```

```
        cursor.execute("SELECT * FROM User WHERE role=0")
```

```
        all_users = cursor.fetchall()
```

```
        cursor.execute("SELECT * FROM Tickets WHERE progress IS NULL")
```

```
        tickets = cursor.fetchall()
```

```
        if request.method == "POST":
```

```
            user_id = request.form['admin-candidate']
```

```
            cursor = mysql.connection.cursor()
```

```
            cursor.execute("UPDATE User SET role=1 WHERE id = %s",[user_id])
```

```
            mysql.connection.commit()
```

```
            cursor.execute("SELECT * FROM User WHERE id = %s",[user_id])
```

```
            promoted_agent = cursor.fetchone()
```

```
            msg = Message('Promoted to Agent',sender='customercarereregistry@gmail.com',recipients=[promoted_agent[1]])
```

```
            msg.body = ""
```

```
                Dear User,
```

```
                You have been promoted to an Agent in the Customer-Care-Registry.
```

```
                You will be able to handle tickets for the customer from now on.
```

```
                Congratulations.
```

```

"""

mail.send(msg)

return redirect(url_for("panel"))

return render_template("panel.html",all_users=all_users,user=user_details,tickets=tickets)

```

accept ticket

```

@app.route("/accept/<int:ticket_id>/<int:user_id>")

def accept(ticket_id,user_id):

    cursor = mysql.connection.cursor()

    cursor.execute("SELECT * FROM User WHERE id = %s",[user_id])

    agent = cursor.fetchone()

    cursor.execute("SELECT * FROM Tickets WHERE id=%s",[ticket_id])

    ticket = cursor.fetchone()

    cursor.execute("SELECT email FROM User WHERE id=%s",[ticket[1]])

    customer = cursor.fetchone()

    if agent[4] == ticket[2]:

        cursor.execute("UPDATE Tickets SET progress='accepted' WHERE id=%s",[ticket_id])

        mysql.connection.commit()

        msg = Message('Ticket Progress',sender='customercareregistry@gmail.com',recipients=[customer[0]])

        msg.body = f"""

        Dear User,

        Your Ticket has been accepted by {agent[1]}

        """

        mail.send(msg)

    return redirect(url_for("home"))

```

close ticket

```

@app.route("/delete/<int:ticket_id>/<int:user_id>")

def delete(ticket_id,user_id):

    cursor = mysql.connection.cursor()

    cursor.execute("SELECT * FROM User WHERE id = %s",[user_id])

```



```

agent = cursor.fetchone()

cursor.execute("SELECT * FROM Tickets WHERE id=%s",[ticket_id])

ticket = cursor.fetchone()

if agent[4] == ticket[2]:

    cursor.execute("DELETE FROM Tickets WHERE id=%s",[ticket_id])

    mysql.connection.commit()

    cursor.execute("SELECT * FROM User WHERE id=%s",[ticket[1]])

    customer = cursor.fetchone()

    msg = Message('Ticket Progress',sender='customercareregistry@gmail.com',recipients=[customer[1]])

    msg.body = f"""

        Dear User,

        Your Ticket has been Closed by {agent[1]}

        Thanks For using Customer Care Registry.

        """

    mail.send(msg)

return redirect(url_for("home"))

```

run server

```

if __name__ == "__main__":

    app.run(debug=True,host='0.0.0.0',port='8080')

```