**Comment App**

**Task:**

* To build a feedback application that has the following functionalities,
* Signup

 where the user will be allowed to enter his emailID and password along with a secret code. This data will be validated and sent to the backend

 where the data will be stored in a Database.

* Sign-in where the user will be allowed to enter his emailID and password. This data will be sent to the backend where it will be cross-checked

with the data available in the database and a proper response is

returned to the frontend.

* Forget-password

where the user will be allowed to enter the email id and secret code. This data will be sent to the backend and If the data

 matches with any record already in the database then the

password should be shown to the user in frontend.

* After sign-in the user will be presented with a text area where he will be able to type any comments. After

submitting, the comment will be taken to the backend and saved in database.

* Below the text area, the user will also see other users' comments along with the respective email ids next to them.
* There will be a filter button on click it, the comment area will show only the comments of the logged in user.

**Solution:**

Application is built with

Frontend -> HTML, CSS

Backend -> Flask [Python web-micro framework]

**Code:**

app.py

from flask import Flask, request, redirect , session, g

from flask import render\_template

from flask\_sqlalchemy import SQLAlchemy

from datetime import datetime

import sqlite3

app=Flask(\_\_name\_\_)

app.config['SQLALCHEMY\_DATABASE\_URI'] = 'sqlite:///database.db'

app.secret\_key = 'dhaneesh'

#database framework python

db = SQLAlchemy(app)

#database

#User\_acc->stores user data

class User\_acc(db.Model):

    \_\_tablename\_\_ = 'user\_acc'

    id = db.Column(db.Integer,primary\_key=True)

    Password = db.Column(db.String(50),nullable=False)

    Email\_id = db.Column(db.String(200),nullable=False)

    Date\_created=db.Column(db.DateTime,default=datetime.utcnow)

    Secret = db.Column(db.String(200))

    def \_\_repr\_\_(self) -> str:

        return str(self.id)

#Comments->store comment data

class Comments(db.Model):

    \_\_tablename\_\_='comments'

    id = db.Column(db.Integer,primary\_key=True)

    user\_id = db.Column(db.Integer,nullable=False)

    Comment = db.Column(db.String(500))

def connect\_db():

    return sqlite3.connect('database.db')

@app.before\_request

def before\_request():

    if 'username' in session:

        g.user = session['username']

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

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

def login():

    if request.method == 'POST':

        email = request.form.get('mail')

        pwd = request.form.get('pwd')

        #checking if user present

        selectapplicant = User\_acc.query.filter\_by(Email\_id=email).first()

        if selectapplicant and selectapplicant.Password == pwd:

            session["username"]=selectapplicant.id

            return redirect('/comment\_page')

        else:

            message = "User with Given Credentials not found"

            return render\_template('login.html',message=message)

    else:

        return render\_template('login.html',message="")

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

def register():

    if request.method == 'POST':

        secret = request.form['secret']

        password= request.form['password']

        email= request.form['email']

        query =User\_acc.query.filter\_by(Email\_id=email).first()

        if(query!=None):

            #checking if user already present

            message = "Email-id already available.Please Login!"

            return render\_template('login.html',message=message)

        data = User\_acc(Password=password,Email\_id=email,Secret=secret)

        try:

            #adding new user

            db.session.add(data)

            db.session.commit()

            user = User\_acc.query.filter\_by(Email\_id=email).first()

            session["username"]=user.id

            return render\_template('login.html',message="")

        except:

            return "error adding values to database"

    else:

        return render\_template('register.html')

@app.route('/forget\_password',methods=['POST', 'GET'])

def forget\_password():

    if request.method == 'POST':

        secret = request.form['secret']

        email= request.form['mail']

        query =User\_acc.query.filter\_by(Email\_id=email,Secret=secret).first()

        if(query!=None):

            message = "Your password for "+email+" is "+query.Password

            return render\_template('login.html',message=message)

        else:

            message="No such email-id"

            return render\_template('login.html',message=message)

    else:

        return render\_template('forget\_password.html')

@app.route('/comment\_page',methods=['POST', 'GET'])

def comment\_page():

    if request.method == 'POST':

        comment = request.form['data']

        print(comment)

        if comment:

            data = Comments(Comment=comment,user\_id=int(g.user))

            try:

                db.session.add(data)

                db.session.commit()

                d=[]

                cur=0

                for c, u in db.session.query(Comments, User\_acc).filter(Comments.user\_id == User\_acc.id).all():

                    d.append(dict())

                    d[cur]['comment']=c.Comment

                    d[cur]['email']=u.Email\_id

                    cur+=1

                return render\_template('comment\_page.html',d=d)

            except:

                return "error adding values to database"

        else:

            return redirect('/comment\_page')

    else:

        d=[]

        cur=0

        for c, u in db.session.query(Comments, User\_acc).filter(Comments.user\_id == User\_acc.id).all():

            d.append(dict())

            d[cur]['comment']=c.Comment

            d[cur]['email']=u.Email\_id

            cur+=1

        return render\_template('comment\_page.html',d=d)

@app.route('/comment\_page\_user',methods=['POST', 'GET'])

def comment\_page\_user():

    if request.method=='GET':

        d=[]

        cur=0

        for c, u in db.session.query(Comments, User\_acc).filter(Comments.user\_id == User\_acc.id).all():

            if(u.id==int(g.user)):

                d.append(dict())

                d[cur]['comment']=c.Comment

                d[cur]['email']=u.Email\_id

                cur+=1

        return render\_template('comment\_page.html',d=d)

@app.route('/logout')

def logout():

   session.pop('username', None)

   return render\_template('login.html',message="")

if \_\_name\_\_ == "\_\_main\_\_":

    app.run(debug=True)

templates/comment\_page.html

<!DOCTYPE html>

<html>

<head>

    <title>Login Form</title>

</head>

<style>

    body

{

    margin: 0;

    padding: 0;

    background-color:#6abadeba;

    font-family: 'Arial';

}

.login{

        width: 382px;

        overflow: hidden;

        margin: auto;

        margin: 20 0 0 450px;

        padding: 80px;

        background: #23463f;

        border-radius: 15px ;

}

h2{

    text-align: center;

    color: #277582;

    padding: 20px;

}

label{

    color: #08ffd1;

    font-size: 17px;

}

a{

    float: right;

    background-color: grey;

}

</style>

<body>

    <h2>Comments</h2><br>

    <div class="login">

        <label>What would you like to share <br>

        </label>

        <form method="post" action="/comment\_page">

        <textarea name="data" id="data" style="font-size: 15pt; width: 350px; height: 100px;" placeholder="...."></textarea>

        <br><br>

        <button name="Submit" value="Submit"  >Submit</button><br><br>

        </form>

        <form method="get" action="/comment\_page\_user">

            <button name="Filter" value="Filter"  >Filter</button><br><br>

        </form>

        {% for item in d %}<tr>

            <label>{{ item['comment'] }}</label><br>

            <label style="text-align: right;">{{ item['email'] }}</label><br><br>

        {% endfor %}

        <a href="{{url\_for('logout')}}" >LOGOUT</a></center>

</div>

</body>

</html>

templates/Forget\_password.html

<!DOCTYPE html>

<html>

<head>

    <title>Login Form</title>

</head>

<style>

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}

</style>

<body>

    <h2>Forget Password</h2><br>

    <div class="login">

        <form method="post" action="/forget\_password">

        <label><b>Email Id

        </b>    <br>

        </label>

        <input type="text" name="mail" id="mail" placeholder="123@gmail.com">

        <br><br>

        <label>

            <b>Secret</b>    <br>

        </label>

            <input type="text" name="secret" id="secret" placeholder="zoho">

        <br><br><br>

            <button name="signin" value="signin"  >Sign in</button><br><br>

    </form>

</div>

</body>

</html>

templates/login.html

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}

</style>

<body>

    <h2>Login Page</h2><br>

    <div class="login">

        <form method="post" action="/login">

        <label>Don't have an account? <a href="{{url\_for('register')}}">Sign up</a>

            <br><br><br>

        </label>

        <label><b>Email Id

        </b>    <br>

        </label>

        <input type="text" name="mail" id="mail" placeholder="123@gmail.com">

        <br><br>

        <label>

            <b>Password</b>    <br>

        </label>

            <input type="Password" name="pwd" id="pwd" placeholder="Password">

        <br><br><br>

            <button name="signin" value="signin"  >Sign in</button><br><br>

        <a href="{{url\_for('forget\_password')}}">Forgot Password</a>

            <label>{{message}}</label>

    </form>

</div>

</body>

</html>

templates/register.html

<!DOCTYPE html>

<html>

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    <title>Login Form</title>

</head>

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}

</style>

<body>

    <h2>Sign Up</h2><br>

    <div class="login">

        <form method="post" action="/register">

        <label>Don't have an account? <a href="{{url\_for('login')}}">Sign in</a>

            <br><br><br>

        </label>

        <label><b>Email Id

        </b>    <br>

        </label>

        <input type="text" name="email" id="email" placeholder="123@gmail.com">

        <br><br>

        <label>

            <b>Password</b>    <br>

        </label>

            <input type="Password" name="password" id="password" placeholder="\*\*\*\*\*\*\*\*\*\*\*\*\*">

        <br><br><br>

        <label><b>Secret

        </b>    <br>

        </label>

        <input type="text" name="secret" id="secret" placeholder="zoho">

        <br><br>

            <button name="signup" value="signup"  >Sign up</button><br><br>

            <label>By clicking the signup button below,</label>

            <label>you are creating an account and you</label>

            <label>agree to the terms of use</label>

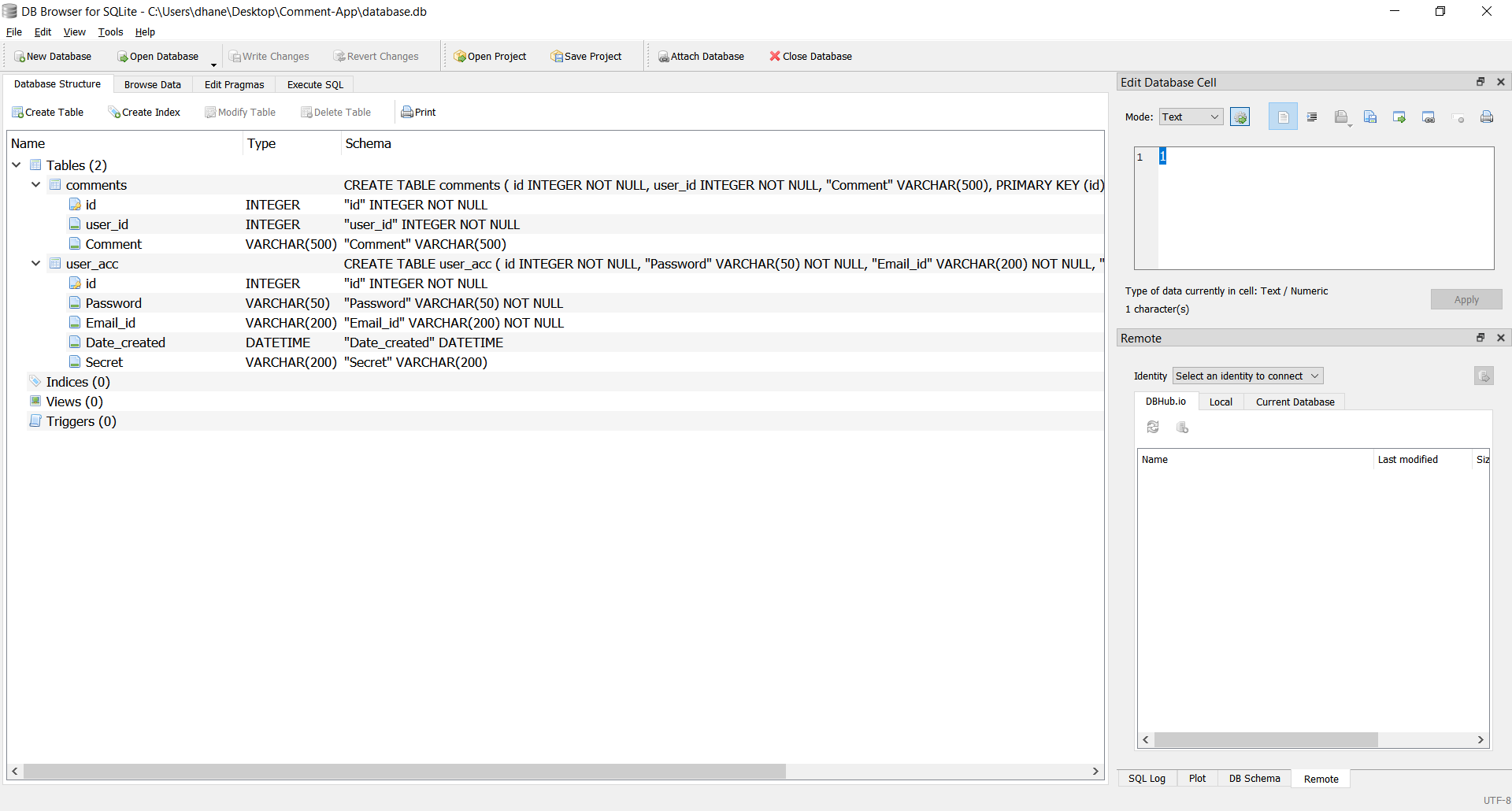
        </form>

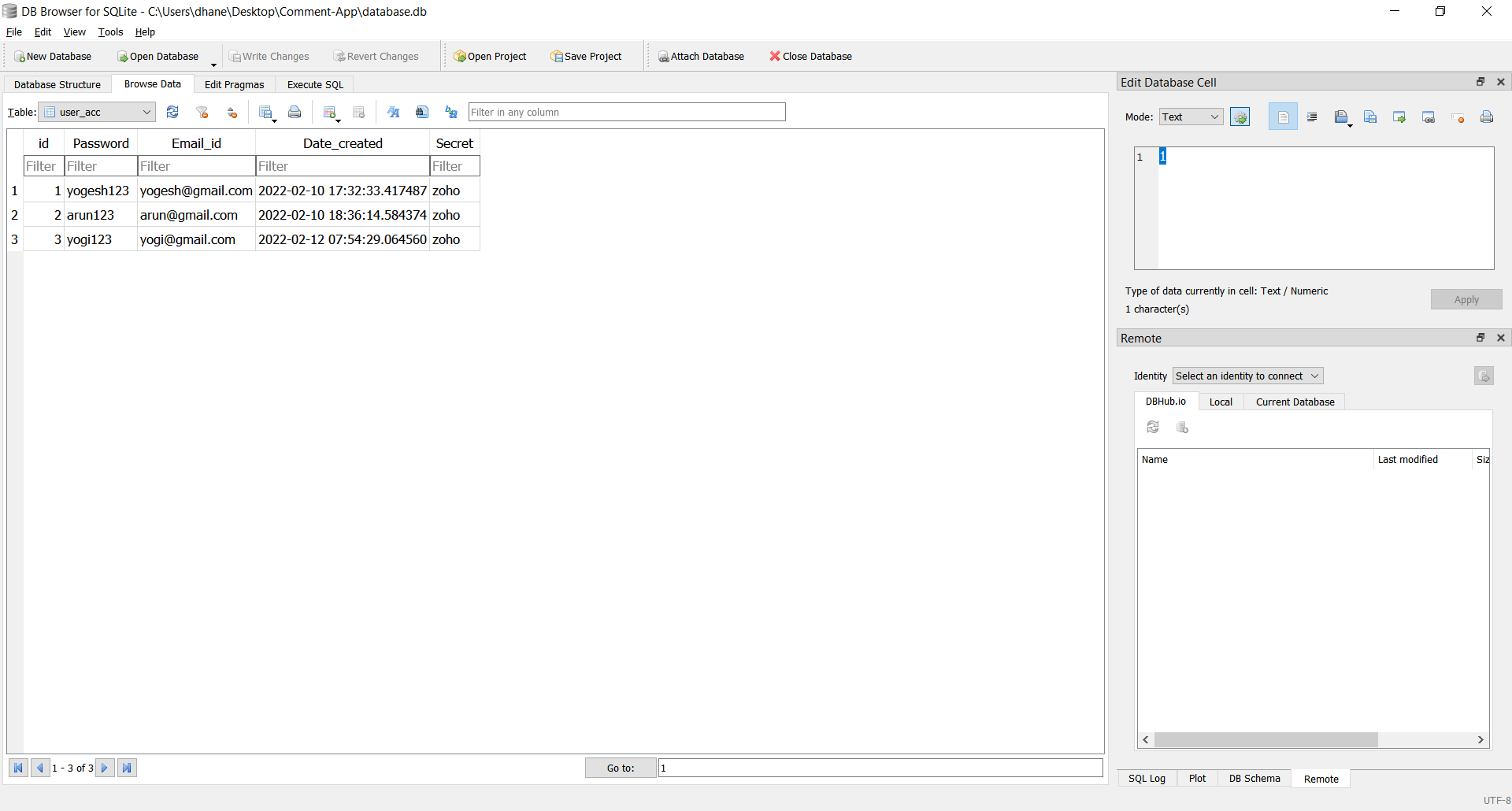
</div>

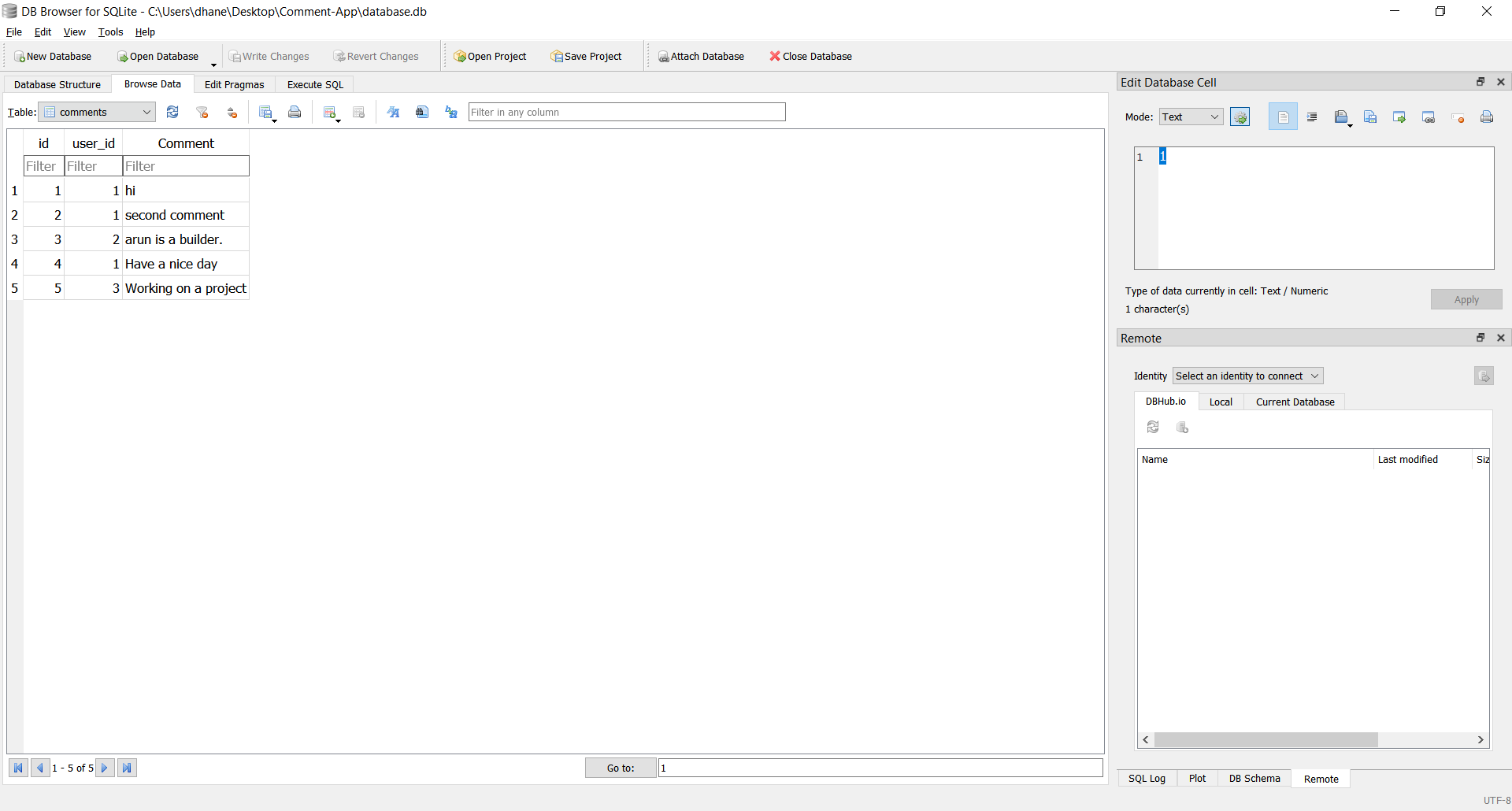
</body>

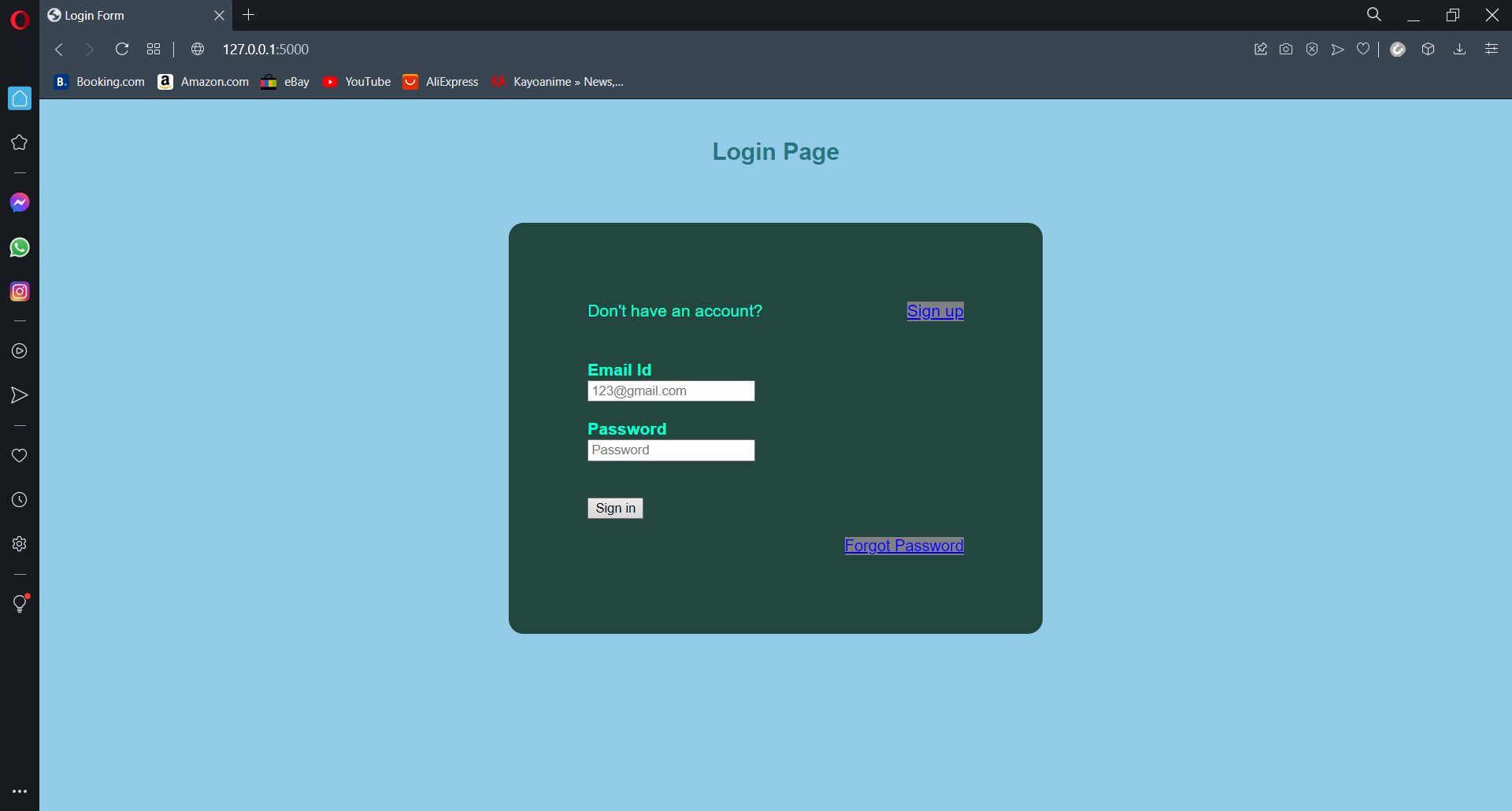
</html>

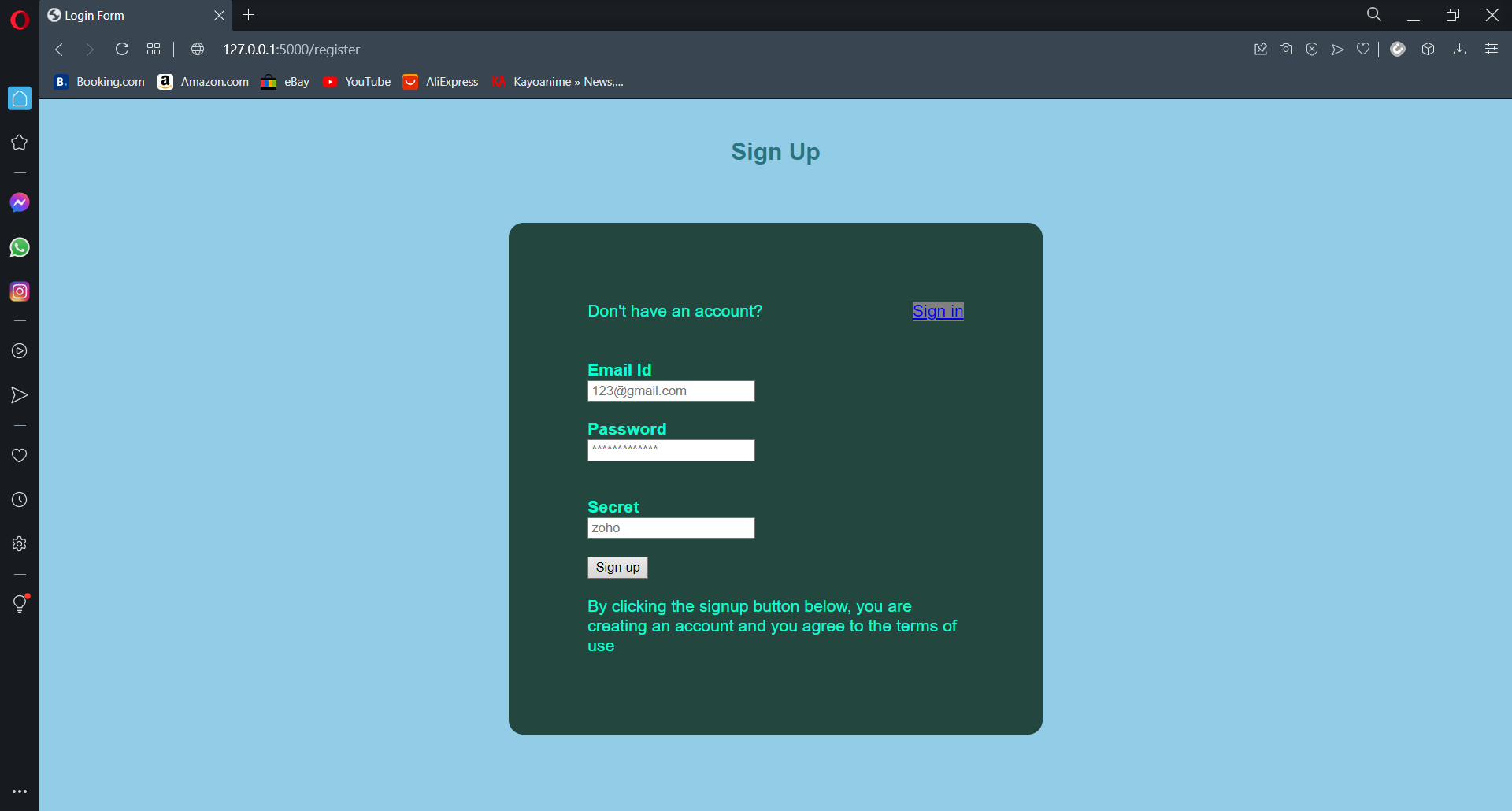
Output screenshots:

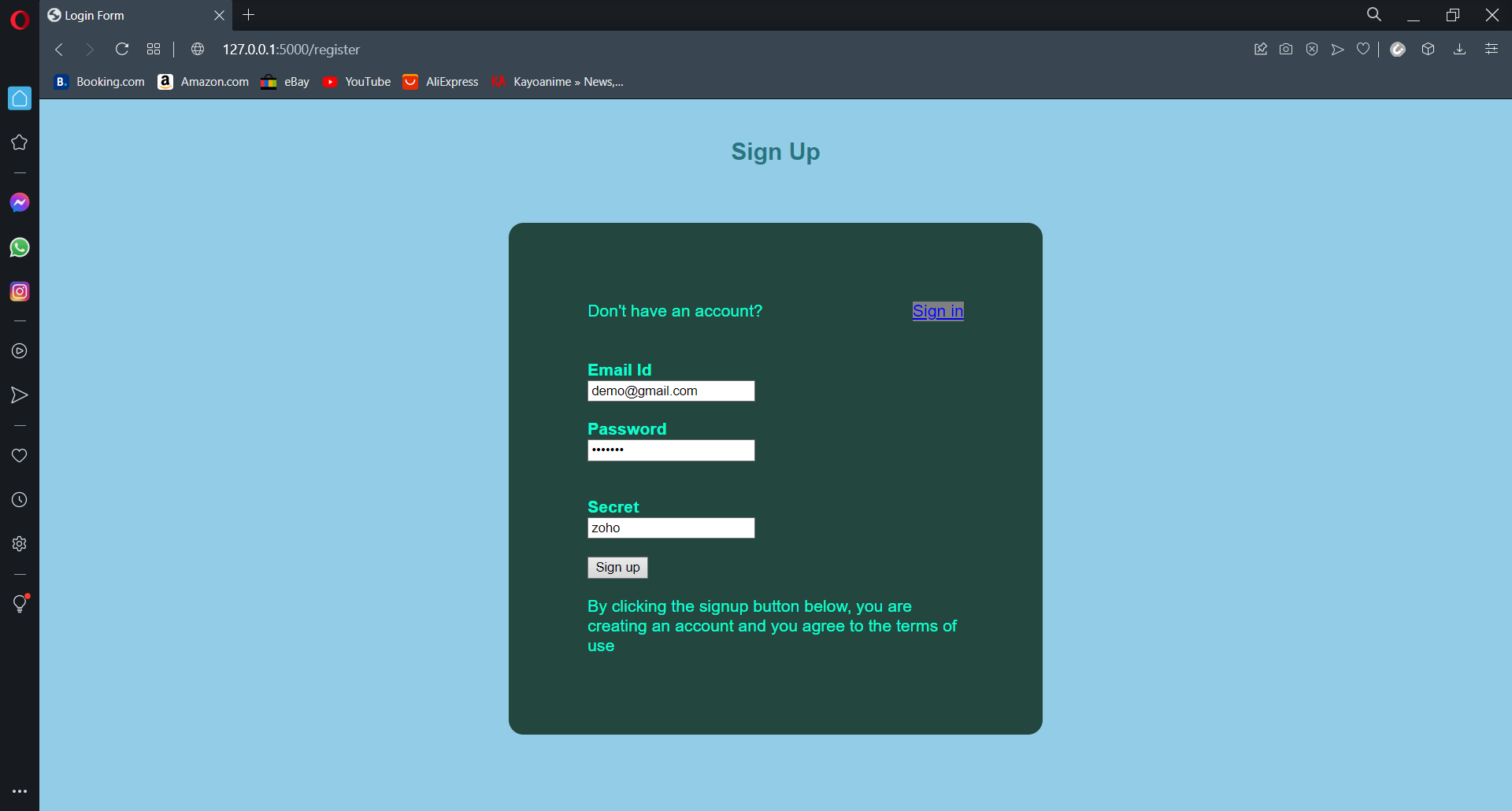
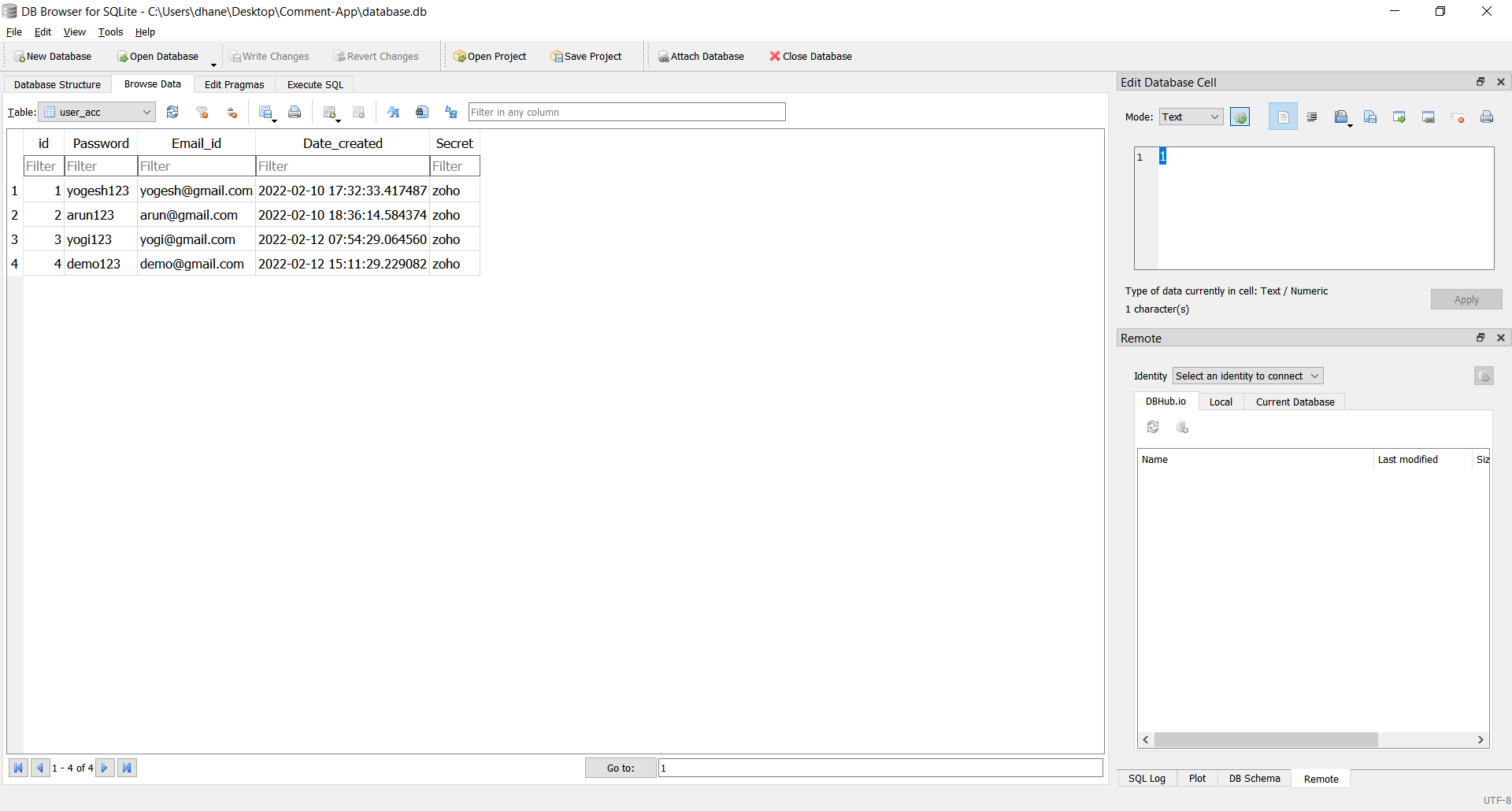


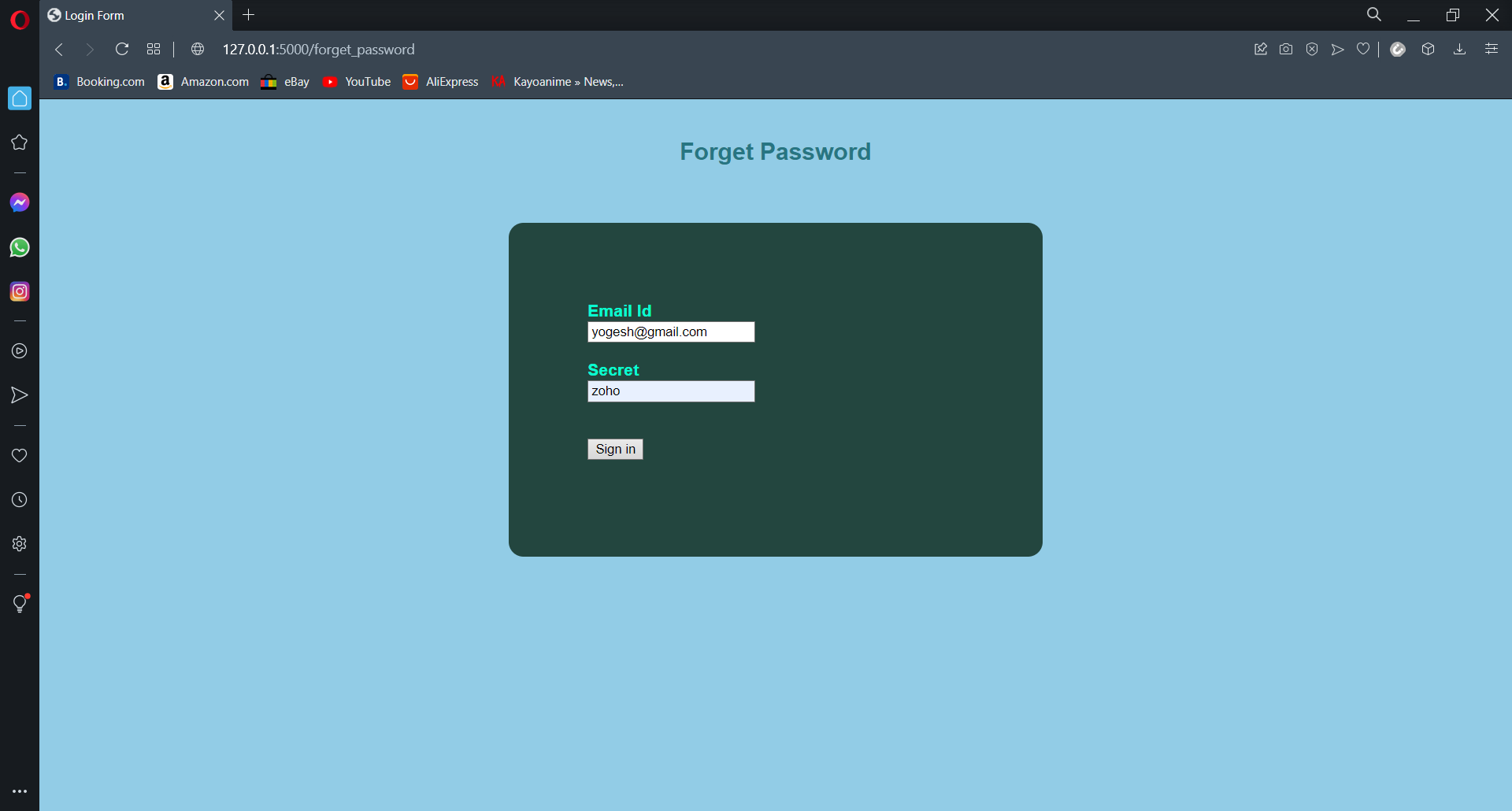


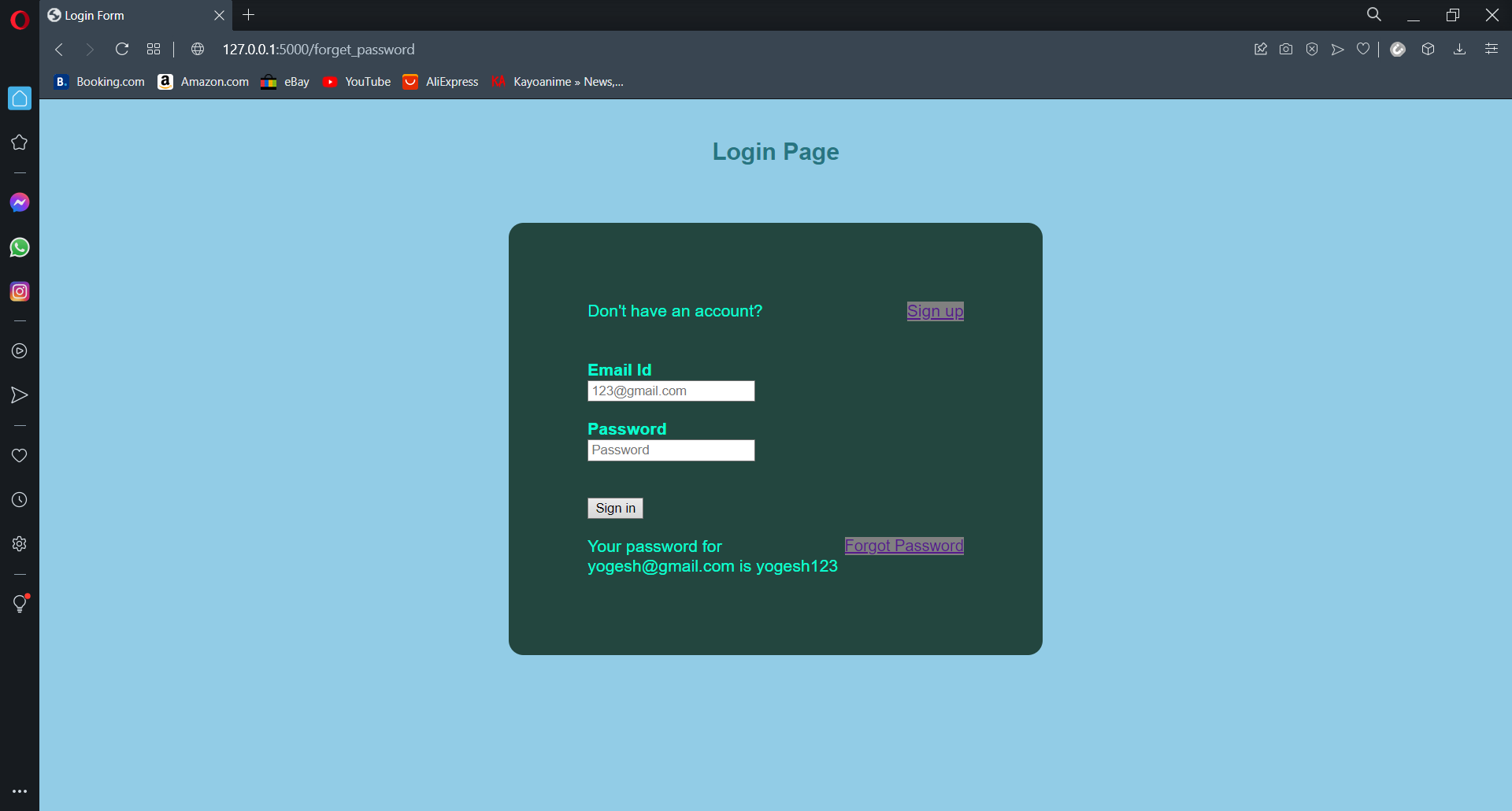


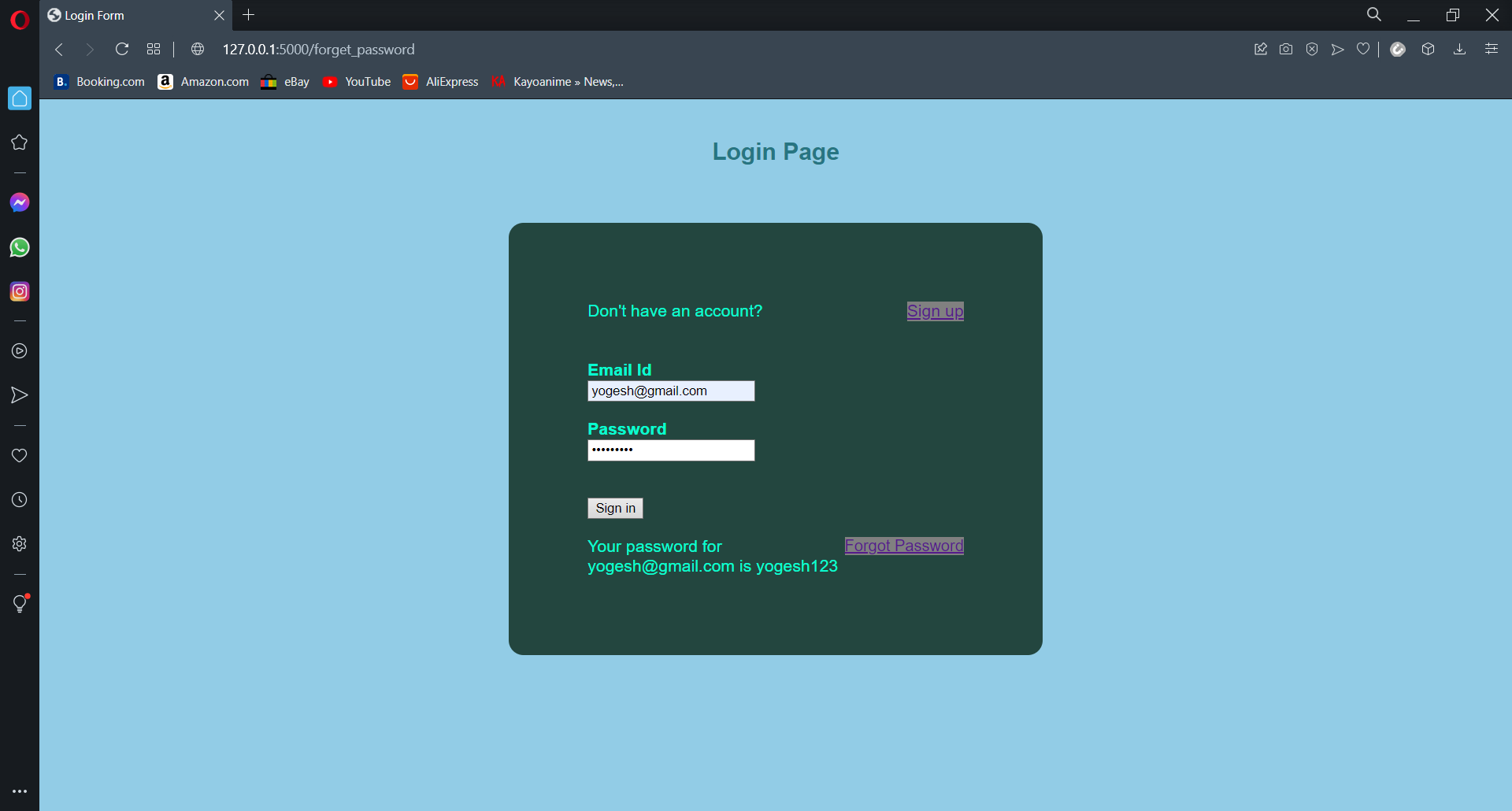


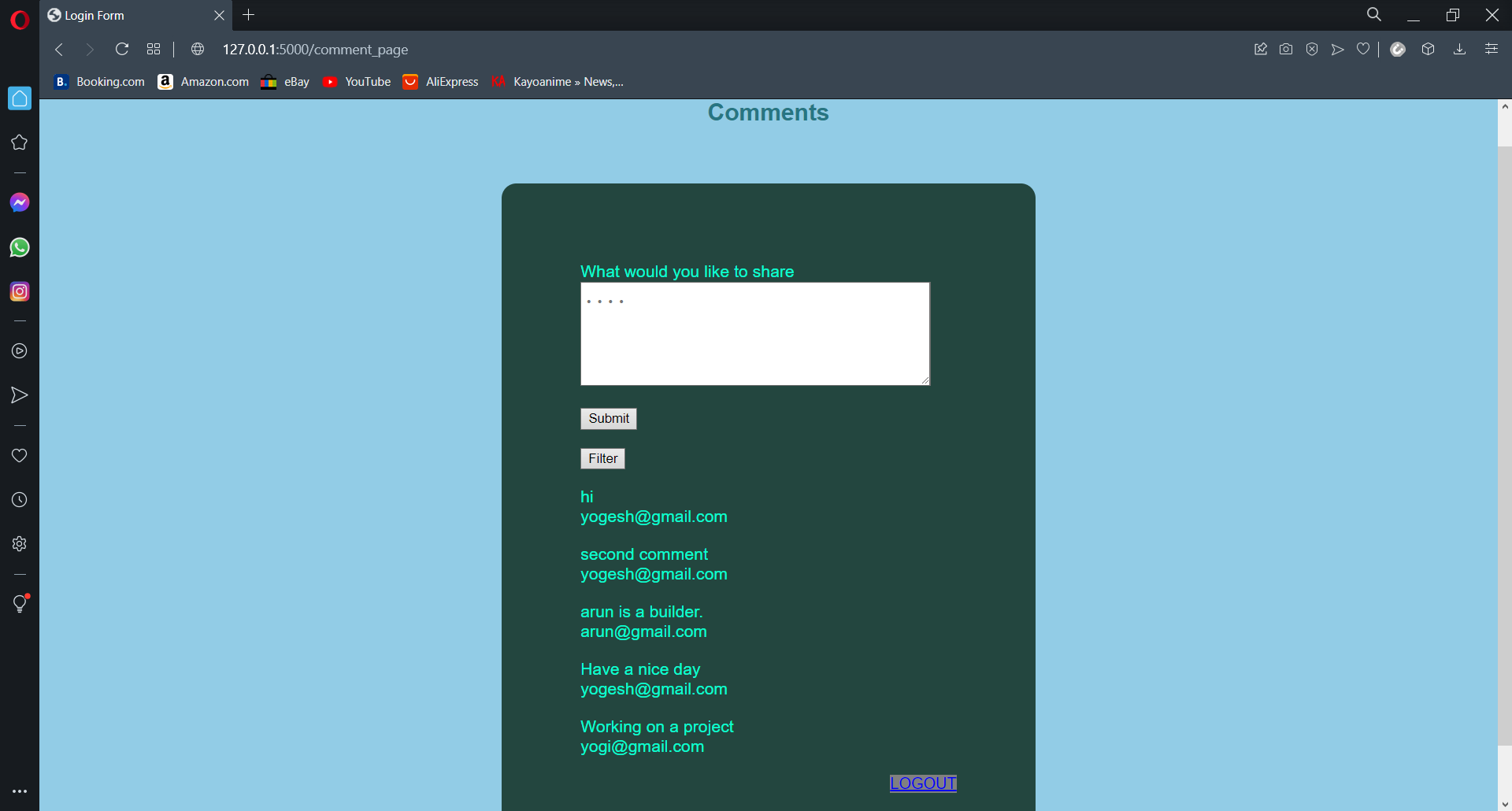










After filter:

