Assignment No.	2
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CRUD Operations Using Flask

1. Create User table with user with email, username, roll number, password.

2. Perform UPDATE,DELETE Queries with user table

3. Connect python code to db2.

4. Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

Source Code:

App.py :

```
from flask import Flask, render_template, url_for,
redirect, flash
from flask_login import UserMixin, login_user,
LoginManager, login_required, logout_user,
current_user
from wtforms.validators import InputRequired,
Length, ValidationError
from flask_bcrypt import Bcrypt
from wtforms import StringField, PasswordField,
SubmitField, IntegerField
from flask_wtf import FlaskForm
import sqlite3

app = Flask(__name__)
bcrypt = Bcrypt(app)
app.config['SECRET_KEY'] = 'B7-1A3E'
```

```
login_manager = LoginManager()
login_manager.init_app(app)
login_manager.login_view = 'login'
```

```
@login_manager.user_loader
def load_user(user_id):
    conn = connect_db()
    user = conn.execute('SELECT * FROM user WHERE
id = ?',
                        (user_id,)).fetchone()
    usr_obj = User(user[0], user[1], user[2])
    return usr_obj
```

```
def connect_db():
    conn = sqlite3.connect('database.db')
    return conn
```

```
class User:
```

```
    def __init__(self, id, email, username):
        self.id = id
        self.username = username
        self.email = email
```

```
    def to_json(self):
        return {"username": self.username,
                "email": self.email}
```

```
    def is_authenticated(self):
        return True
```

```
    def is_active(self):
        return True
```

```
    def is_anonymous(self):
        return False
```

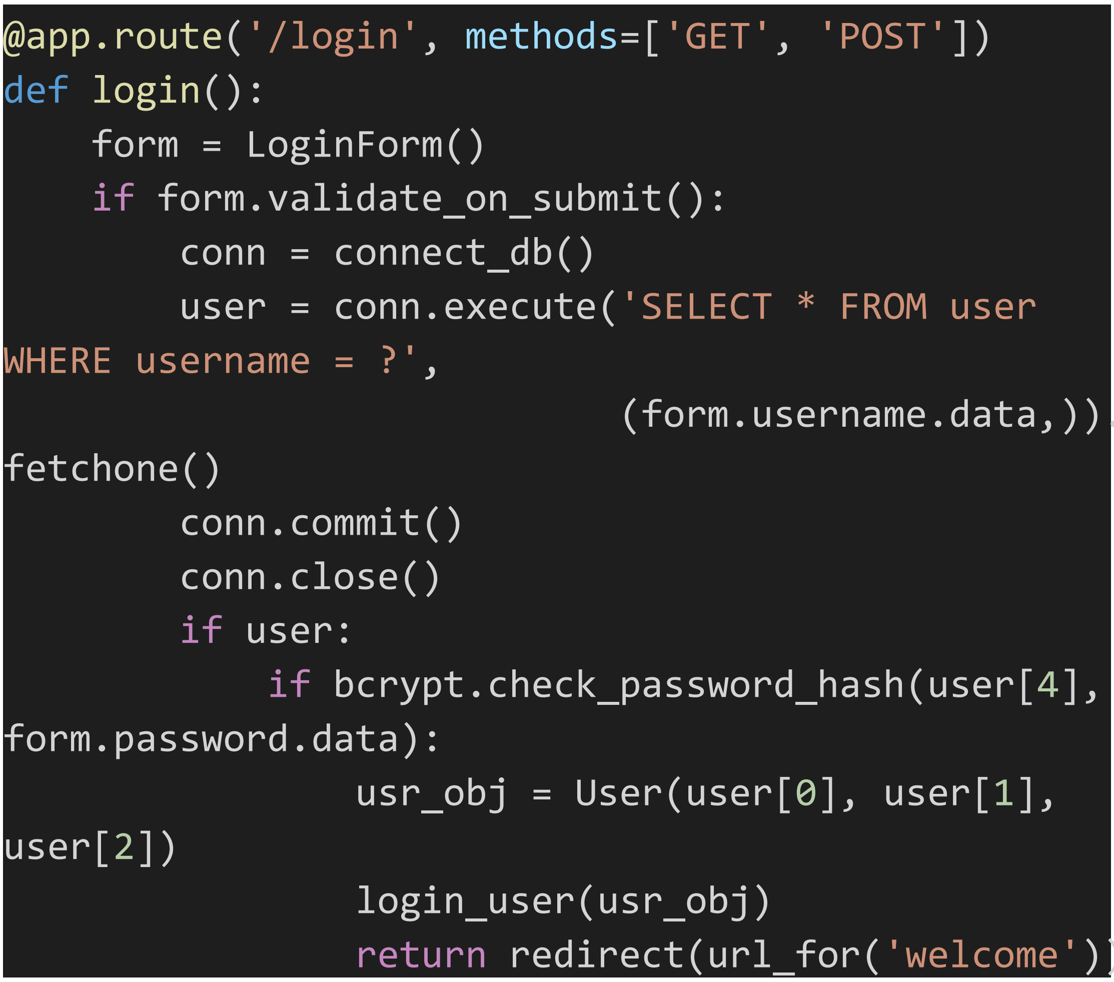
```
    def get_id(self):
        return str(self.id)
```

```
class RegisterForm(FlaskForm):
    email = StringField(validators=[
        InputRequired(), Length(min=4, max=50)], render_kw={"placeholder": "Email"})
    username = StringField(validators=[
                                   InputRequired(), Length(min=4, max=20)], render_kw={"placeholder": "Username"})
    rollnumber = StringField(validators=[
        InputRequired(), Length(min=5, max=10)], render_kw={"placeholder": "RollNumber"})
    password = PasswordField(validators=[
                                     InputRequired(), Length(min=8, max=20)], render_kw={"placeholder": "Password"})
```

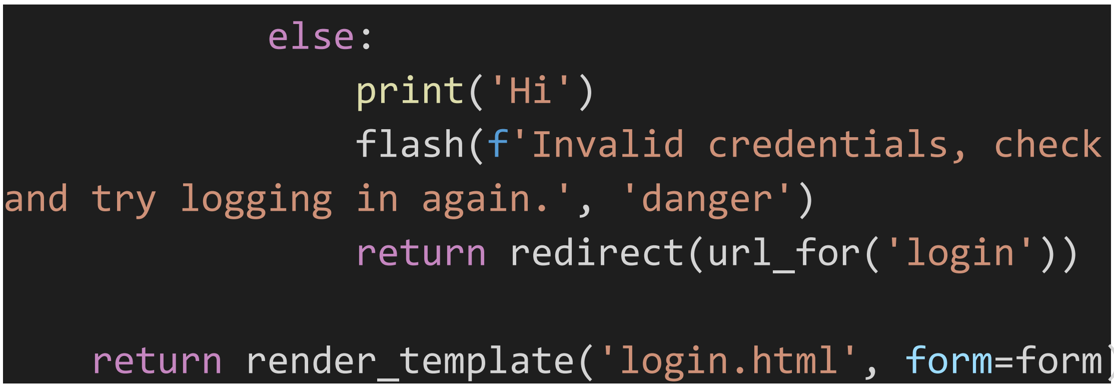
```
    submit = SubmitField('Register')
```

```
    def validate_username(self, username):
        conn = connect_db()
        existing_user_username = conn.execute('SELECT * FROM user WHERE username = ?',
                                                                                              (username.data,)).fetchone()
        conn.commit()
        conn.close()
        if existing_user_username:
            raise ValidationError(
                'That username already exists. Try another one.')
```

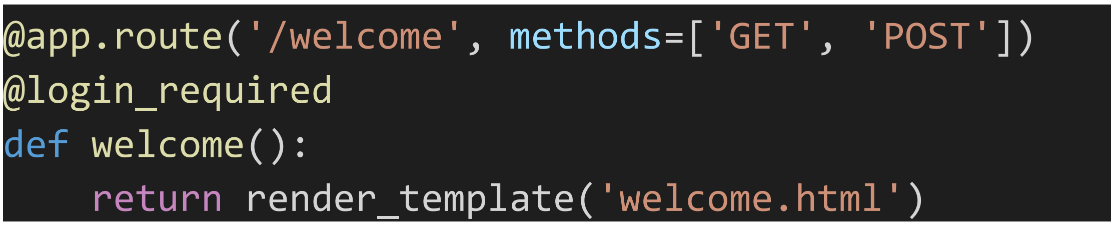
```
class LoginForm(FlaskForm):
    username = StringField(validators=[
                           InputRequired(),
Length(min=4, max=20)], render_kw={"placeholder":
"Username"})

    password = PasswordField(validators=[
                             InputRequired(),
Length(min=8, max=20)], render_kw={"placeholder":
"Password"})

    submit = SubmitField('Login')


class UpdateForm(FlaskForm):
    username = StringField(validators=[
                           InputRequired(),
Length(min=4, max=20)], render_kw={"placeholder":
"Username"})

    oldpassword = PasswordField(validators=[
        InputRequired(), Length(min=8, max=20)],
render_kw={"placeholder": "Previous Password"})

    password = PasswordField(validators=[
                             InputRequired(),
Length(min=8, max=20)], render_kw={"placeholder":
"Password"})

    submit = SubmitField('Update')


@app.route('/')
def home():
    return render_template('home.html')
```



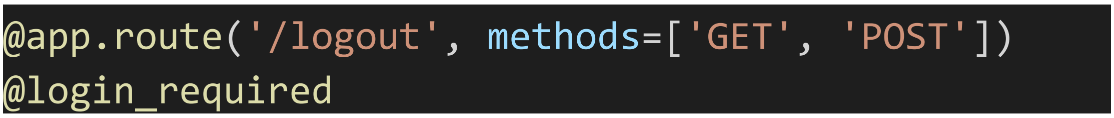
```
@app.route('/login', methods=['GET', 'POST'])
def login():
    form = LoginForm()
    if form.validate_on_submit():
        conn = connect_db()
        user = conn.execute('SELECT * FROM user
WHERE username = ?',
                            (form.username.data,)).
fetchone()
        conn.commit()
        conn.close()
        if user:
            if bcrypt.check_password_hash(user[4],
form.password.data):
                usr_obj = User(user[0], user[1],
user[2])
                login_user(usr_obj)
                return redirect(url_for('welcome'))
```



```
            else:
                print('Hi')
                flash(f'Invalid credentials, check
and try logging in again.', 'danger')
                return redirect(url_for('login'))

    return render_template('login.html', form=form)
```



```
@app.route('/welcome', methods=['GET', 'POST'])
@login_required
def welcome():
    return render_template('welcome.html')
```



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

```
def logout():
    logout_user()
    return redirect(url_for('login'))
```

```
@ app.route('/register', methods=['GET', 'POST'])
def register():
    form = RegisterForm()
    conn = connect_db()
    if form.validate_on_submit():
        hashed_password =
bcrypt.generate_password_hash(form.password.data)
        conn.execute('INSERT INTO user (email,
username, roll_number, pass_word) VALUES
(?, ?, ?, ?)',
                     (form.email.data,
form.username.data, form.rollnumber.data,
hashed_password))
        conn.commit()
        conn.close()
        return redirect(url_for('login'))
    return render_template('register.html',
form=form)
```

```
@ app.route('/update', methods=['GET', 'POST'])
def update():
    form = UpdateForm()
    conn = connect_db()
    if form.validate_on_submit():
        conn = connect_db()
        user = conn.execute('SELECT * FROM user
WHERE username = ?',
                            (form.username.data,)).
fetchone()
        if user:
            if bcrypt.check_password_hash(user[4],
form.oldpassword.data):
                print(user)
                hashed_password1 =
bcrypt.generate_password_hash(
                    form.password.data)
                conn.execute('UPDATE user set
pass_word = ? where username = ?',
                             (hashed_password1,
form.username.data))
                conn.commit()
                conn.close()
                flash(f'Password changed
successfully.', 'success')
                return redirect(url_for('home'))
            else:
                flash(f'Invalid password, Enter
valid password.', 'danger')
                return redirect(url_for('update'))
        else:
            flash(f'Invalid user, Enter valid
User.', 'danger')
            return redirect(url_for('update'))
    return render_template('update.html',
form=form)
```

```
if __name__ == "__main__":
    app.run(debug=True)
```

Schema.sql :

```sql
DROP TABLE IF EXISTS user;

CREATE TABLE user (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    email TEXT NOT NULL,
    username TEXT NOT NULL,
    roll_number INTEGER NOT NULL,
    pass_word TEXT NOT NULL
);
```

Init_db.py :

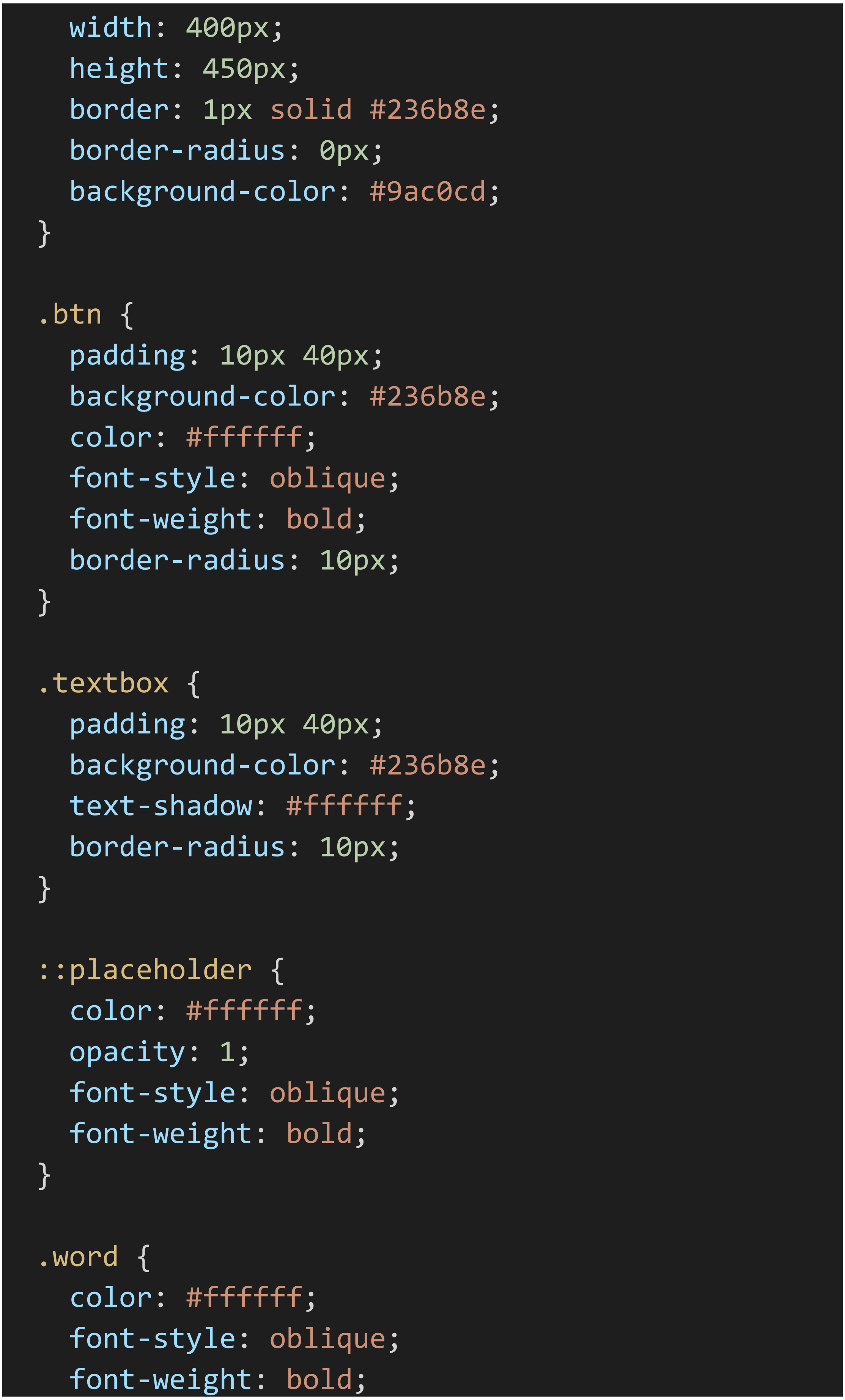
```python
import sqlite3

conn = sqlite3.connect('database.db')
```

```python
with open('schema.sql') as f:
    conn.executescript(f.read())
```

```python
conn.commit()
conn.close()
```

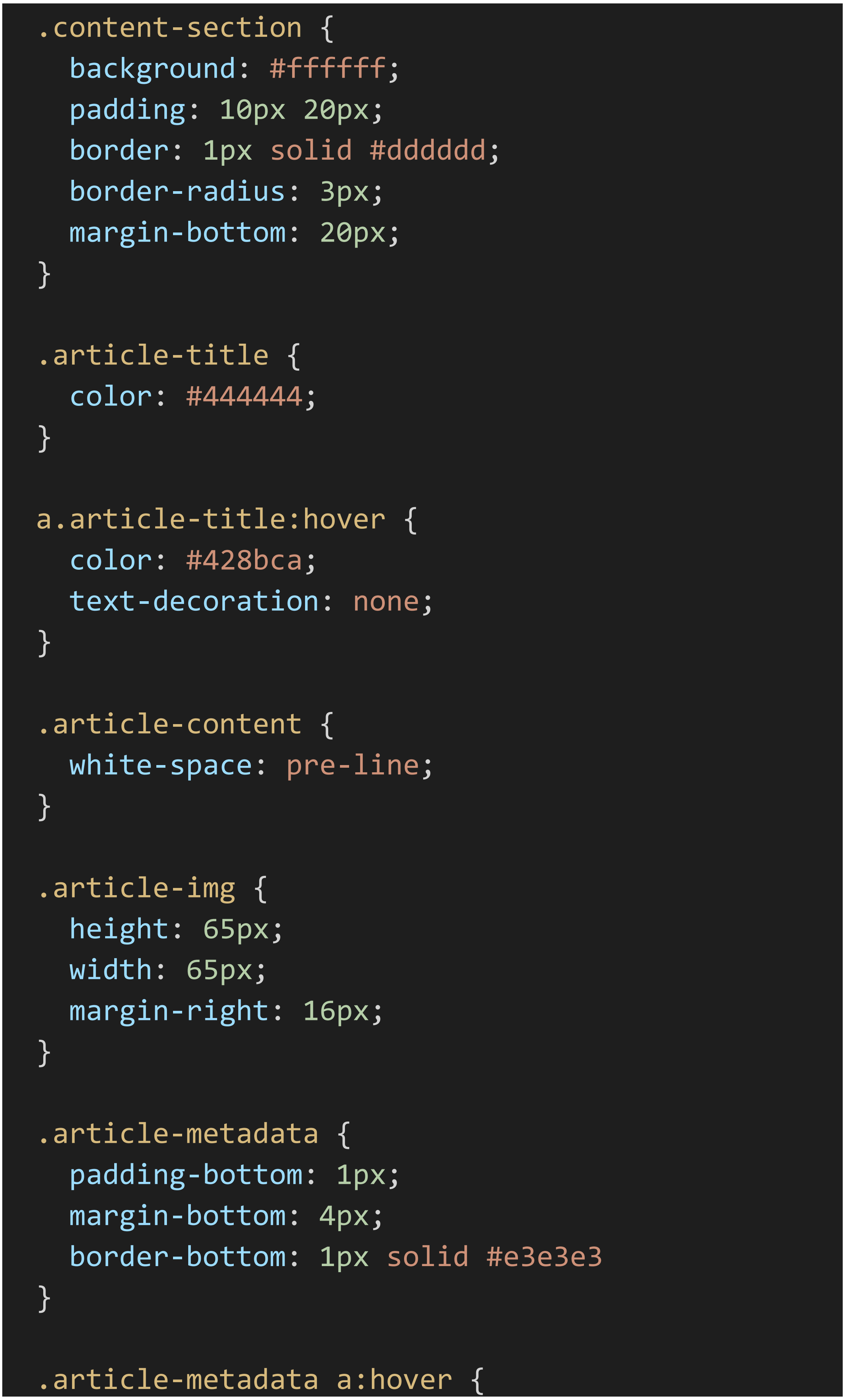
Style.css :

```css
.header {
    padding: 5px 120px;
    width: 150px;
    height: 70px;
    background-color: #236b8e;
  }

  .border {
    padding: 80px 50px;
```

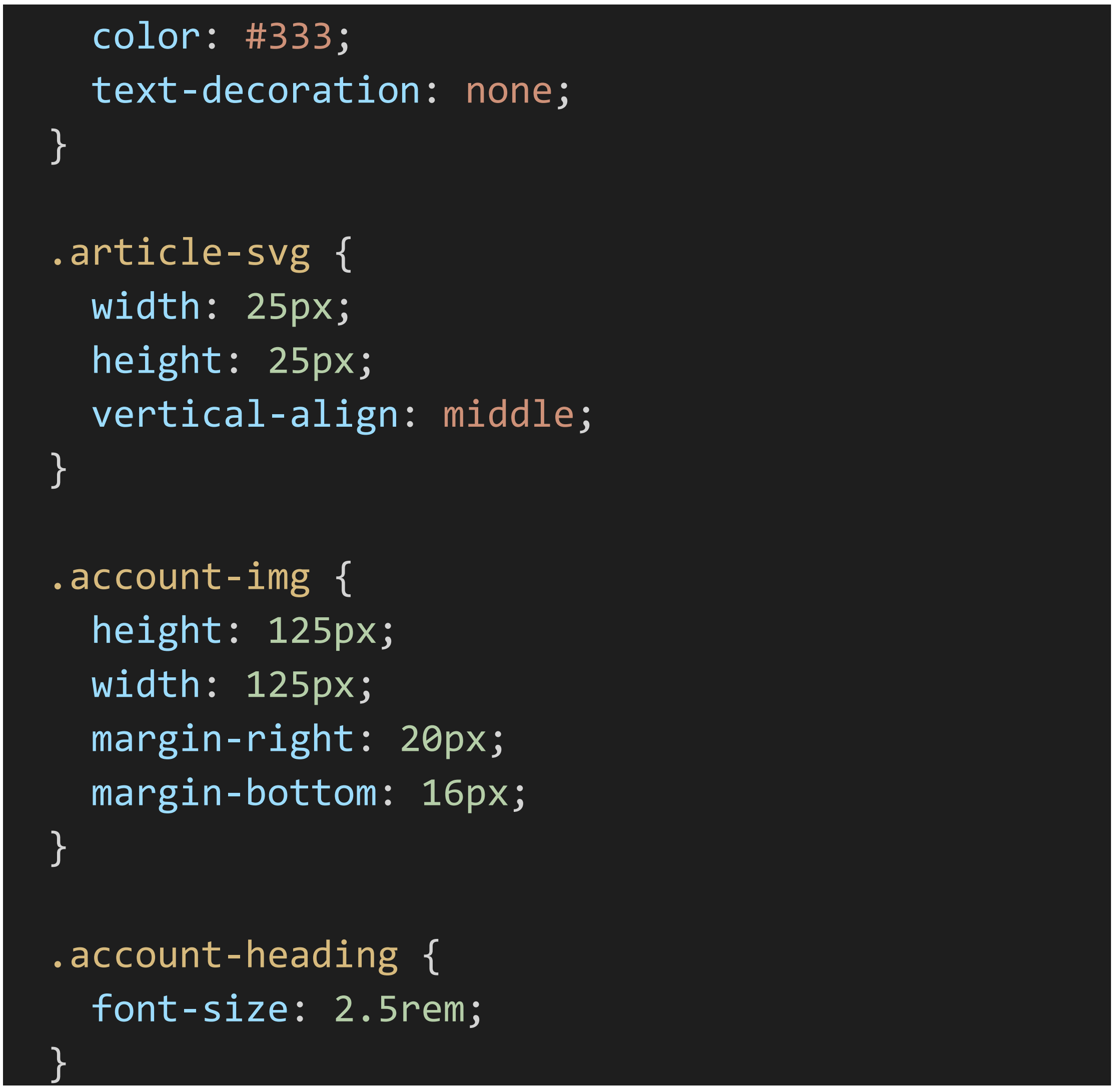


```
  width: 400px;
  height: 450px;
  border: 1px solid #236b8e;
  border-radius: 0px;
  background-color: #9ac0cd;
}

.btn {
  padding: 10px 40px;
  background-color: #236b8e;
  color: #ffffff;
  font-style: oblique;
  font-weight: bold;
  border-radius: 10px;
}

.textbox {
  padding: 10px 40px;
  background-color: #236b8e;
  text-shadow: #ffffff;
  border-radius: 10px;
}

::placeholder {
  color: #ffffff;
  opacity: 1;
  font-style: oblique;
  font-weight: bold;
}

.word {
  color: #ffffff;
  font-style: oblique;
  font-weight: bold;
```

```
}

.bottom {
  color: #236b8e;
  font-style: oblique;
  font-weight: bold;
}

body {
  background: #fafafa;
  color: #333333;
  margin-top: 5rem;
}

h1, h2, h3, h4, h5, h6 {
  color: #444444;
}

.bg-steel {
  background-color: #5f788a;
}

.site-header .navbar-nav .nav-link {
  color: #cbd5db;
}

.site-header .navbar-nav .nav-link:hover {
  color: #ffffff;
}

.site-header .navbar-nav .nav-link.active {
  font-weight: 500;
}
```



```
.content-section {
  background: #ffffff;
  padding: 10px 20px;
  border: 1px solid #dddddd;
  border-radius: 3px;
  margin-bottom: 20px;
}

.article-title {
  color: #444444;
}

a.article-title:hover {
  color: #428bca;
  text-decoration: none;
}

.article-content {
  white-space: pre-line;
}

.article-img {
  height: 65px;
  width: 65px;
  margin-right: 16px;
}

.article-metadata {
  padding-bottom: 1px;
  margin-bottom: 4px;
  border-bottom: 1px solid #e3e3e3
}

.article-metadata a:hover {
```



```
  color: #333;
  text-decoration: none;
}

.article-svg {
  width: 25px;
  height: 25px;
  vertical-align: middle;
}

.account-img {
  height: 125px;
  width: 125px;
  margin-right: 20px;
  margin-bottom: 16px;
}

.account-heading {
  font-size: 2.5rem;
}
```

Templates:

Welcome.html :

```
<!DOCTYPE html>
<html lang="en">

<head>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1
/dist/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7
x9JvoRxT2MZw1T" crossorigin="anonymous">
    <link rel="stylesheet" type="text/css"
href="{{ url_for('static',
filename='style.css') }}" />
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport" content="width=device-
width, initial-scale=1.0">
    <title>Welcome Page</title>
</head>
```

```
<body>
    <h1>Welcome!</h1> <br>
    <a href="{{url_for('logout')}}">Press here to
logout</a>
```

```
    <script src="https://code.jquery.com/jquery-
3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+
8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7
/dist/umd/popper.min.js" integrity="sha384-
```

```
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq
4sF86dIHNDz0W1" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/
dist/js/bootstrap.min.js" integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDs
f4x0xIM+B07jRM" crossorigin="anonymous"></script>
</body>
</html>
```

Login.html :

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport" content="width=device-
width, initial-scale=1.0">
    <title>Login</title>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1
/dist/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7
x9JvoRxT2MZw1T" crossorigin="anonymous">
    <link rel="stylesheet" type="text/css"
href="{{ url_for('static',
filename='style.css') }}" />
</head>
```

```
<body>
    <div class="col-md-8">
```

```
        {% with messages = get_flashed_messages(with_categories=true) %}
            {% if messages %}
                {% for category, message in messages %}
                    <div class="alert alert-{{category}}">
                        {{ message }}
                    </div>
                {% endfor %}
            {% endif %}
        {% endwith %}
        {% block content %} {% endblock %}
    </div>

    <h1>Login Page</h1> <br>
```

```
    <form method="POST" action="">
        {{ form.hidden_tag() }}
        <fieldset class="form-group">
            <div>
                {{ form.username.label(class="form-control-label") }}

                {% if form.username.errors %}
                    {{ form.username(class="form-control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in form.username.errors %}
                            <span>{{ error }}</span>
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.username(class="form-control form-control-lg") }}
                {% endif %}
            </div>


            <div>
                {{ form.password.label(class="form-control-label") }}

                {% if form.password.errors %}
                    {{ form.password(class="form-control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in form.password.errors %}
                            <span>{{ error }}</span>
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.password(class="form-control form-control-lg") }}
                {% endif %}
            </div>

        </fieldset>
        <div class="form-group">
            {{ form.submit(class="btn btn-outline-info") }}
        </div>
```

```
        <small class="text-muted ml-2">
```

```
            <a href='{{url_for('register')}}'>Do
not have an account? Sign Up?</a>
        </small>

    </form>
```

```
    <script src="https://code.jquery.com/jquery-
3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+
8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7
/dist/umd/popper.min.js" integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq
4sF86dIHNDz0W1" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/
dist/js/bootstrap.min.js" integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDs
f4x0xIM+B07jRM" crossorigin="anonymous"></script>
</body>
</html>
```

Home.html :

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1
```

```
/dist/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7
x9JvoRxT2MZw1T" crossorigin="anonymous">
    <link rel="stylesheet" type="text/css"
href="{{ url_for('static',
filename='style.css') }}" />
```

```
    <meta name="viewport" content="width=device-
width, initial-scale=1.0">
    <title>Home</title>
</head>
```

```
<body>
    <div class="col-md-8">
        {% with messages =
get_flashed_messages(with_categories=true) %}
            {% if messages %}
                {% for category, message in
messages %}
                    <div class="alert alert-
{{category}}">
                        {{ message }}
                    </div>
                {% endfor %}
            {% endif %}
        {% endwith %}
        {% block content %} {% endblock %}
    </div>
    <h1>Flask Application</h1> <br>
    <a href="{{ url_for('login') }}">Login
Page</a><br> <br>
    <a href="{{ url_for('register') }}">Register
Page</a><br> <br>
    <a href="{{ url_for('update') }}">Update
Password</a><br> <br>
```

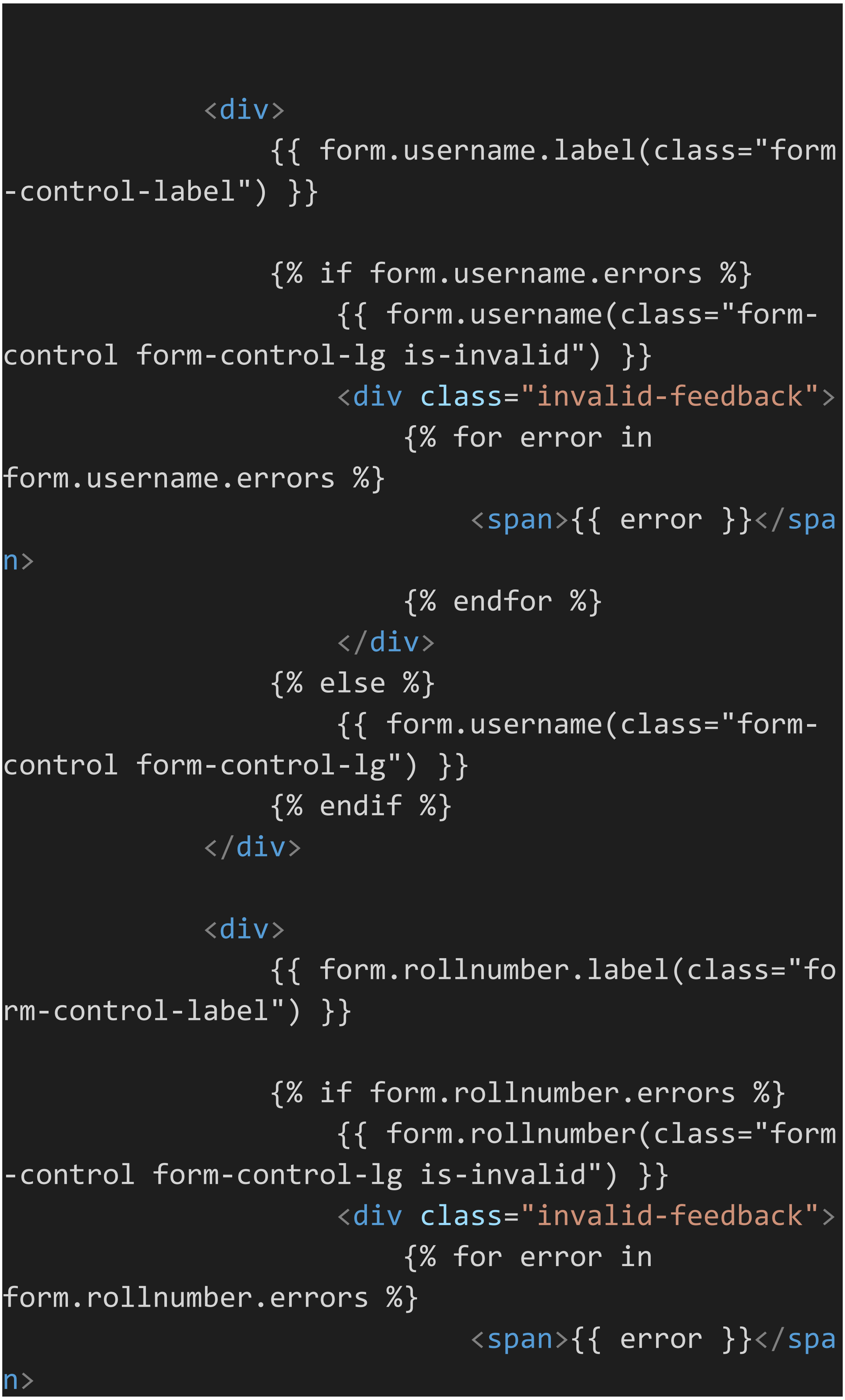
```
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
</body>
```

```
</html>
```

Register.html :

```
<!DOCTYPE html>
<html lang="en">

<head>
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
    <link rel="stylesheet" type="text/css" href="{{ url_for('static', filename='style.css') }}" />
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Register</title>
</head>
```

```
<body>
    <h1>Register Page</h1> <br>
    <form method="POST" action="">
        {{ form.hidden_tag() }}
        <fieldset class="form-group">
            <!-- <legend class="border-bottom mb-4">Registration Page</legend> -->

            <div>
                {{ form.email.label(class="form-control-label") }}

                {% if form.email.errors %}
                    {{ form.email(class="form-control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in form.email.errors %}
                            <span>{{ error }}</span>
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.email(class="form-control form-control-lg") }}
                {% endif %}
            </div>
```



```
            <div>
                {{ form.username.label(class="form
-control-label") }}

                {% if form.username.errors %}
                    {{ form.username(class="form-
control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in
form.username.errors %}
                            <span>{{ error }}</spa
n>
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.username(class="form-
control form-control-lg") }}
                {% endif %}
            </div>

            <div>
                {{ form.rollnumber.label(class="fo
rm-control-label") }}

                {% if form.rollnumber.errors %}
                    {{ form.rollnumber(class="form
-control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in
form.rollnumber.errors %}
                            <span>{{ error }}</spa
n>
```

```
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.rollnumber(class="form-control form-control-lg") }}
                {% endif %}
            </div>


            <div>
                {{ form.password.label(class="form-control-label") }}

                {% if form.password.errors %}
                    {{ form.password(class="form-control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in form.password.errors %}
                            <span>{{ error }}</span>
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.password(class="form-control form-control-lg") }}
                {% endif %}
            </div>

        </fieldset>
        <div class="form-group">
            {{ form.submit(class="btn btn-outline-info") }}
        </div>
        <small class="text-muted ml-2">
            <a href="{{ url_for('login') }}">Already have an account? Log In</a>
        </small>

    </form>
```

```
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
</body>
```

```
</html>
```

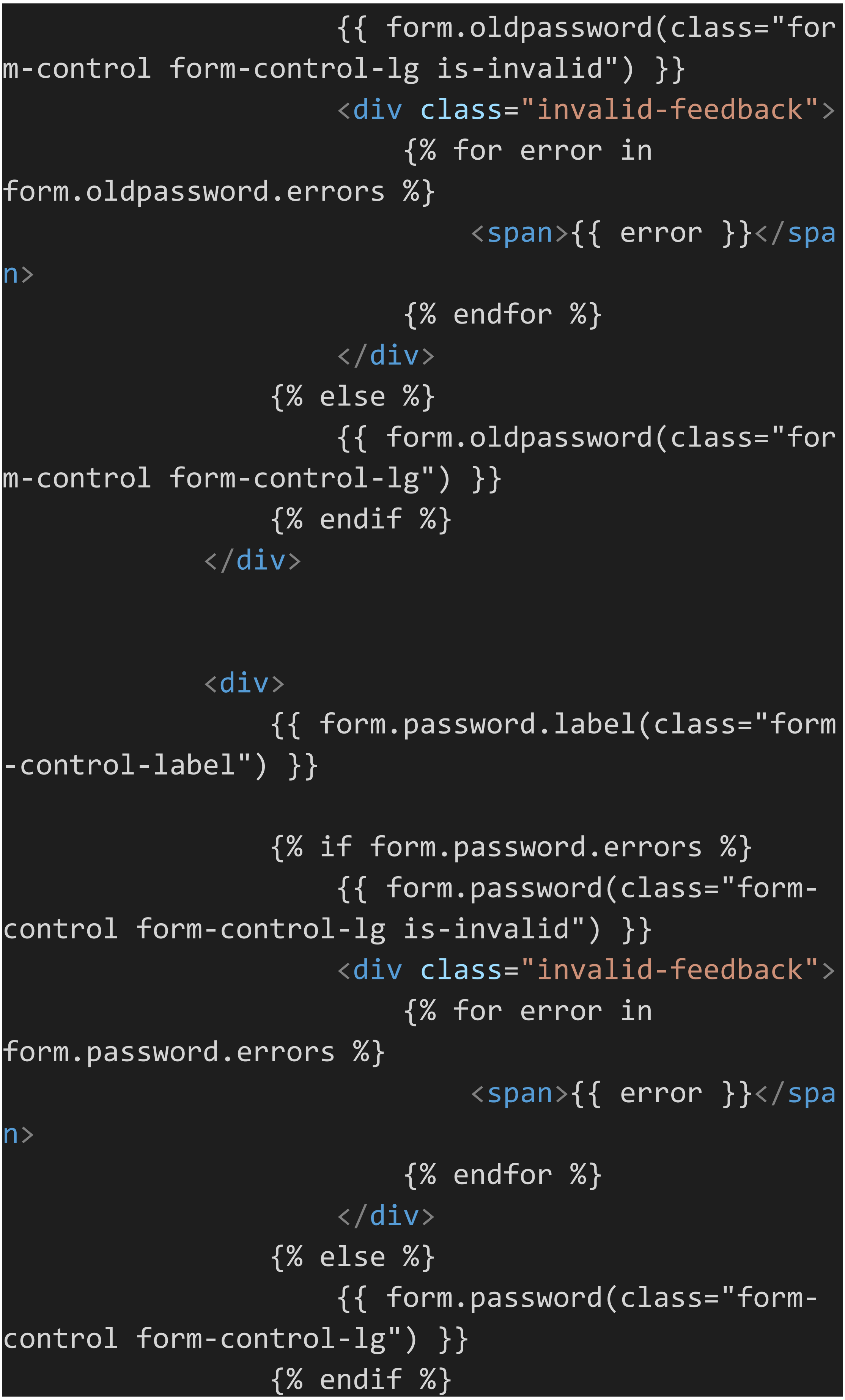
Update.html :

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport" content="width=device-
width, initial-scale=1.0">
    <title>Login</title>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1
/dist/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7
x9JvoRxT2MZw1T" crossorigin="anonymous">
    <link rel="stylesheet" type="text/css"
href="{{ url_for('static',
filename='style.css') }}" />
</head>
```

```
<body>
    <div class="col-md-8">
        {% with messages =
get_flashed_messages(with_categories=true) %}
            {% if messages %}
                {% for category, message in
messages %}
                    <div class="alert alert-
{{category}}">
                        {{ message }}
                    </div>
                {% endfor %}
            {% endif %}
        {% endwith %}
        {% block content %} {% endblock %}
    </div>

    <h1>Update Password</h1> <br>
```

```
    <form method="POST" action="">
        {{ form.hidden_tag() }}
        <fieldset class="form-group">
            <div>
                {{ form.username.label(class="form-control-label") }}

                {% if form.username.errors %}
                    {{ form.username(class="form-control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in form.username.errors %}
                            <span>{{ error }}</span>
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.username(class="form-control form-control-lg") }}
                {% endif %}
            </div>
```

```
            <div>
                {{ form.oldpassword.label(class="form-control-label") }}

                {% if form.oldpassword.errors %}
```



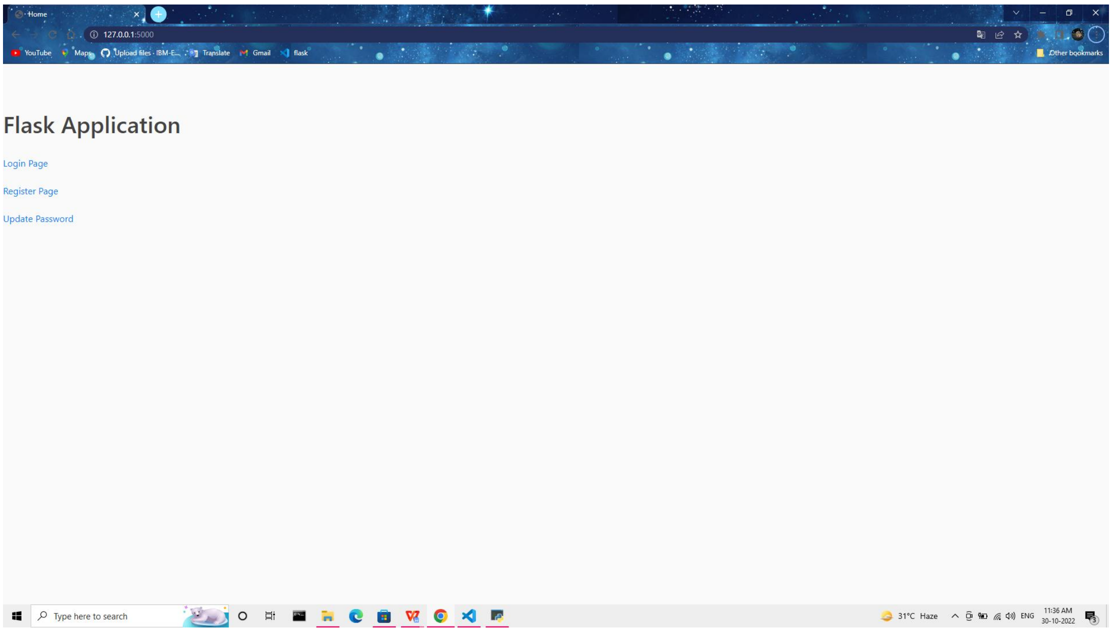
```
                    {{ form.oldpassword(class="form-control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in form.oldpassword.errors %}
                            <span>{{ error }}</span>
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.oldpassword(class="form-control form-control-lg") }}
                {% endif %}
            </div>


            <div>
                {{ form.password.label(class="form-control-label") }}

                {% if form.password.errors %}
                    {{ form.password(class="form-control form-control-lg is-invalid") }}
                    <div class="invalid-feedback">
                        {% for error in form.password.errors %}
                            <span>{{ error }}</span>
                        {% endfor %}
                    </div>
                {% else %}
                    {{ form.password(class="form-control form-control-lg") }}
                {% endif %}
            </div>

        </fieldset>
        <div class="form-group">
            {{ form.submit(class="btn btn-outline-info") }}
        </div>
    </form>
```

```
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
</body>
```

```
</html>
```

Output Screenshots:

Home page :



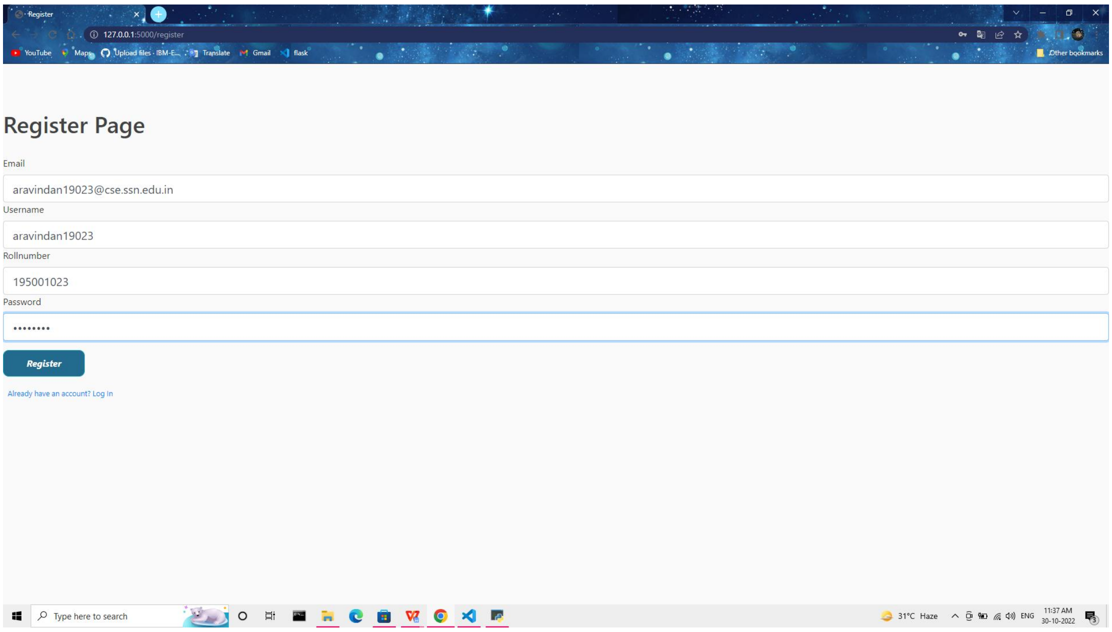
Flask Application

Login Page

Register Page

Update Password

Registration :



Register Page

Email

aravindan19023@cse.ssn.edu.in

Username

aravindan19023

Rollnumber

195001023

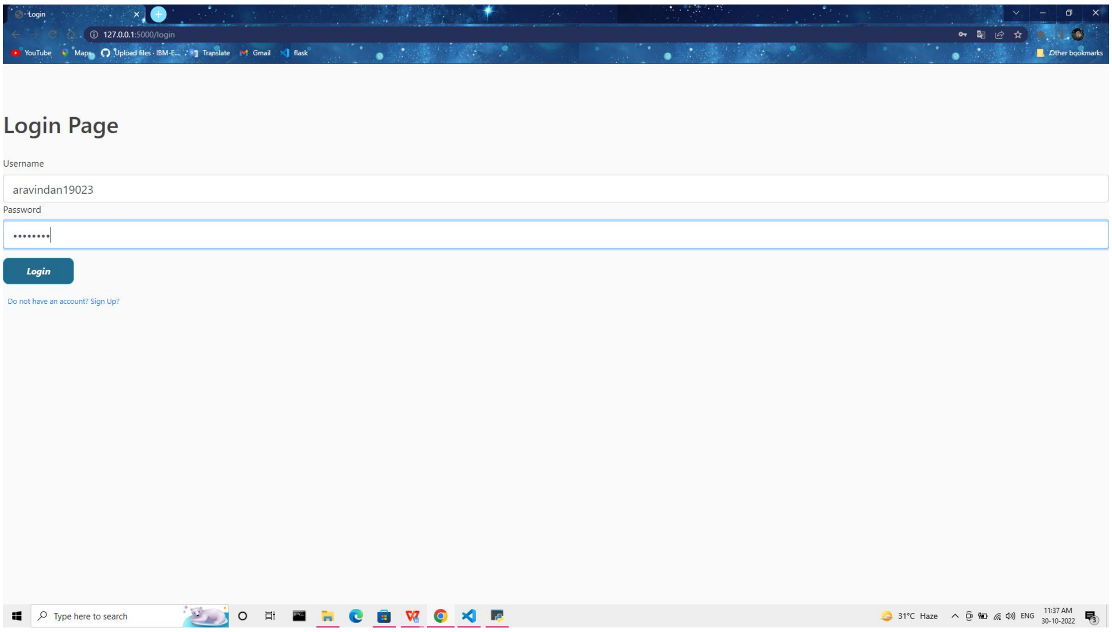
Password

•••••••••

Register

Already have an account? Log In

Login :



Login Page

Username

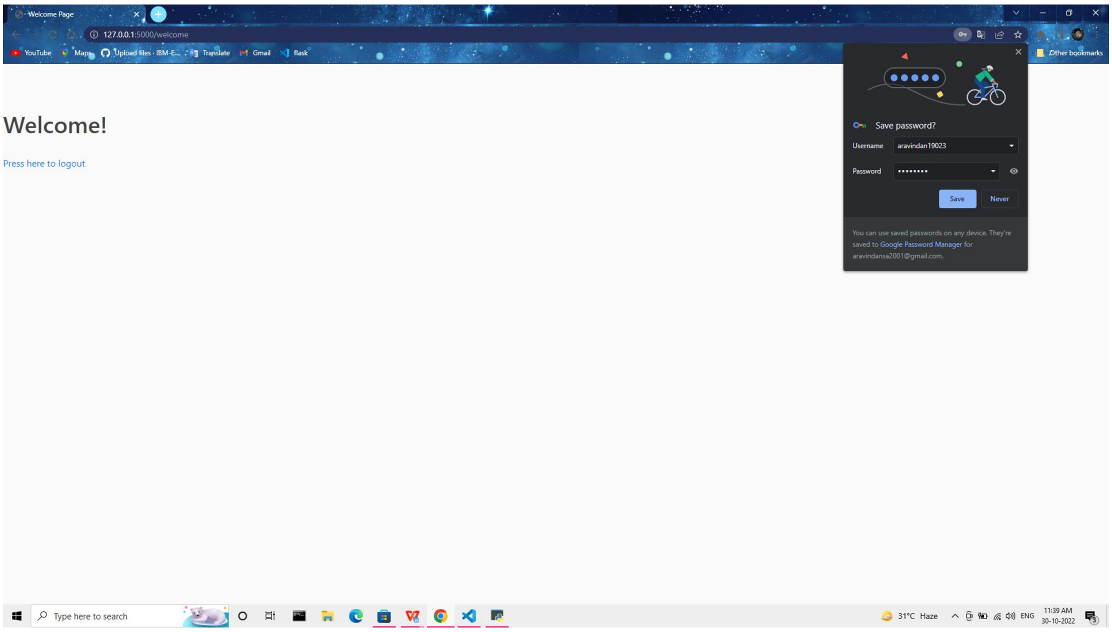
aravindan19023

Password

••••••••

Login

Do not have an account? Sign Up?



Welcome!

Press here to logout

Save password?

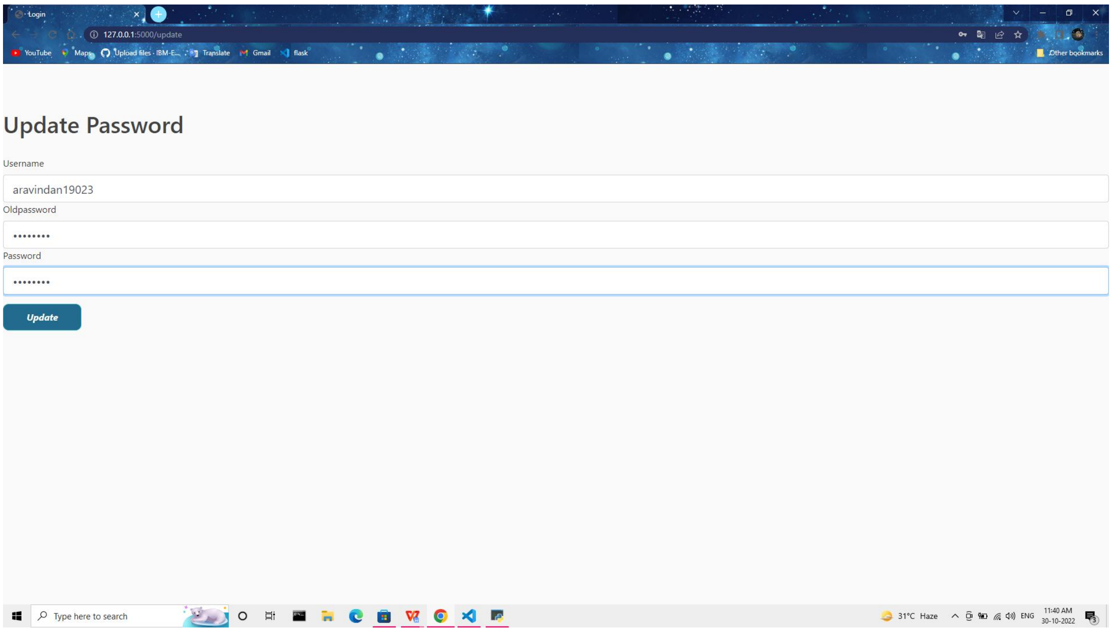
Username aravindan19023

Password ••••••••

Save Never

You can use saved passwords on any device. They're saved to Google Password Manager for aravindansa2001@gmail.com.

Password update:



Update Password

Username

aravindan19023

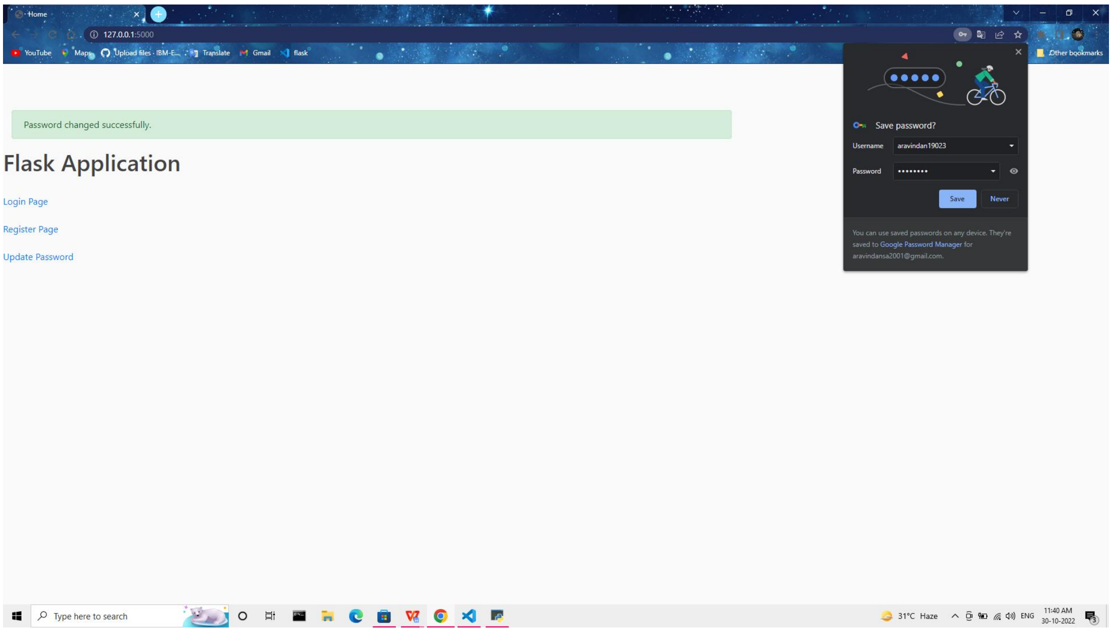
Oldpassword

••••••••

Password

••••••••

Update



Password changed successfully.

Flask Application

Login Page

Register Page

Update Password

Save password?

Username aravindan19023

Password •••••••••

Save Never

You can use saved passwords on any device. They're saved to Google Password Manager for aravindansa2001@gmail.com.