

Assignment -2

Assignment Date	20 September 2022
Student Name	Sharmila s
Student Roll Number	822719106036
Maximum Marks	2 Marks

Question-1:

1. Create a Flask App
2. Add the Home page, About Page
3. Add the Bootstrap
4. Add the Sign in page and App the Signup Page + database connectivity

Solution:

INDEX.js

index.js

```
function deleteNote(notelId) {  
  fetch("/delete-note", {  
    method: "POST",  
    body: JSON.stringify({ notelId: notelId }),  
  }).then((_res) => {  
    window.location.href = "/";  
  });  
}
```

base.html

```
<!DOCTYPE html>  
<html>  
  <head>  
    <meta charset="utf-8" />  
    <meta name="viewport" content="width=device-width, initial-scale=1" />  
    <link  
      rel="stylesheet"  
      href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"  
      integrity="sha384-Vkoo8x4CGsO3+Hhvx8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"  
      crossorigin="anonymous"  
    />  
    <link  
      rel="stylesheet"
```

```
    href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css"
    crossorigin="anonymous"
  />
```

```
    <title>{% block title %}Home{% endblock %}</title>
  </head>
  <body>
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
      <button
        class="navbar-toggler"
        type="button"    data-
        toggle="collapse" data-
        target="#navbar"
      >
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbar">
        <div class="navbar-nav">
          {% if user.is_authenticated %}
            <a class="nav-item nav-link" id="home" href="/">Home</a>
            <a class="nav-item nav-link" id="logout" href="/logout">Logout</a>
          {% else %}
            <a class="nav-item nav-link" id="login" href="/login">Login</a>
            <a class="nav-item nav-link" id="signUp" href="/sign-up">Sign Up</a>
          {% endif %}
        </div>
      </div>
    </nav>
```

```
    {% with messages = get_flashed_messages(with_categories=true) %} {% if
messages %} {% for category, message in messages %} {% if category ==
'error' %}
      <div class="alert alert-danger alert-dismissible fade show" role="alert">
        {{ message }}
        <button type="button" class="close" data-dismiss="alert">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
    {% else %}
      <div class="alert alert-success alert-dismissible fade show" role="alert">
        {{ message }}
        <button type="button" class="close" data-dismiss="alert">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
    {% endif %} {% endfor %} {% endif %} {% endwith %}
```

```
  <div class="container">{% block content %} {% endblock %}</div>
  <script
    src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
    integrity="sha384-
    KJ3o2DKtIkvYIK3UENzmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
    crossorigin="anonymous"
```

```

    ></script>
    <script
      src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
      integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
      crossorigin="anonymous"
    ></script>
    <script
      src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
      integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
      crossorigin="anonymous"
    ></script>

    <script
      type="text/javascript"
      src="{{ url_for('static', filename='index.js') }}"
    ></script>
  </body>
</html>

```

home.html

```

{% extends "base.html" %} {% block title %}Home{% endblock %} {% block content
%}
<h1 align="center">Notes</h1>
<ul class="list-group list-group-flush" id="notes">
  {% for note in user.notes %}
  <li class="list-group-item">
    {{ note.data }}
    <button type="button" class="close" onClick="deleteNote({{ note.id }})">
      <span aria-hidden="true">&times;</span>
    </button>
  </li>
  {% endfor %}
</ul>
<form method="POST">
  <textarea name="note" id="note" class="form-control"></textarea>
<br />
  <div align="center">
    <button type="submit" class="btn btn-primary">Add Note</button>
  </div>
</form>
{% endblock %}

```

login.html

```

{% extends "base.html" %} {% block title %}Login{% endblock %} {% block content
%}
<form method="POST">
  <h3 align="center">Login</h3>
  <div class="form-group">
    <label for="email">Email Address</label>

```

```

    <input
type="email"
class="form-control"
    id="email"
name="email"
    placeholder="Enter email"
    />
</div>
<div class="form-group">
    <label for="password">Password</label>
    <input
type="password"
class="form-control"
id="password"
name="password"
placeholder="Enter
password"
    />
</div>
<br />
    <button type="submit" class="btn btn-primary">Login</button>
</form>
{% endblock %}

```

sign_up.html

```

{% extends "base.html" %} {% block title %}Sign Up{% endblock %} {% block
content %}
<form method="POST">
    <h3 align="center">Sign Up</h3>
    <div class="form-group">
        <label for="email">Email Address</label>
        <input    type="email"
class="form-control"
id="email"    name="email"
placeholder="Enter email"
        />
    </div>
    <div class="form-group">
        <label for="firstName">First Name</label>
        <input    type="text"
class="form-control"
id="firstName"
name="firstName"
placeholder="Enter first name"
        />
    </div>
    <div class="form-group">
        <label for="password1">Password</label>
        <input
type="password"
class="form-control"

```

```

id="password1"
name="password1"
    placeholder="Enter password"
/>
</div>
<div class="form-group">
    <label for="password2">Password (Confirm)</label>
    <input    type="password"
class="form-control"
id="password2"
name="password2"
placeholder="Confirm password"
/>
</div>
<br />
<button type="submit" class="btn btn-primary">Submit</button>
</form>
{% endblock %}

```

init.py

```

from flask import Flask
from flask_sqlalchemy import SQLAlchemy
from os import path
from flask_login import LoginManager

db = SQLAlchemy()
DB_NAME = "database.db"

def create_app():
    app = Flask(__name__)
    app.config['SECRET_KEY'] = 'hjshjhdjah kjshkjdhjs'
    app.config['SQLALCHEMY_DATABASE_URI'] = f'sqlite:/// {DB_NAME}'
    db.init_app(app)

    from .views import views
    from .auth import auth

    app.register_blueprint(views, url_prefix='/')
    app.register_blueprint(auth, url_prefix='/')

    from .models import User, Note

    create_database(app)

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

    @login_manager.user_loader
    def load_user(id):

```

```
    return User.query.get(int(id))
```

```
    return app
```

```
def create_database(app):    if not  
path.exists('website/' + DB_NAME):  
    db.create_all(app=app)  
    print('Created Database!')
```

auth.py

```
from flask import Blueprint, render_template, request, flash, redirect, url_for  
from .models import User  
from werkzeug.security import generate_password_hash, check_password_hash  
from . import db  
from flask_login import login_user, login_required, logout_user, current_user
```

```
auth = Blueprint('auth', __name__)
```

```
@auth.route('/login', methods=['GET', 'POST'])  
def login():    if request.method == 'POST':  
    email = request.form.get('email')  
    password = request.form.get('password')  
  
    user = User.query.filter_by(email=email).first()    if  
user:    if check_password_hash(user.password,  
password):    flash('Logged in successfully!',  
category='success')    login_user(user,  
remember=True)    return  
redirect(url_for('views.home'))    else:  
    flash('Incorrect password, try again.', category='error')  
else:  
    flash('Email does not exist.', category='error')
```

```
    return render_template("login.html", user=current_user)
```

```
@auth.route('/logout')  
@login_required def  
logout():  
logout_user()  
    return redirect(url_for('auth.login'))
```

```
@auth.route('/sign-up', methods=['GET', 'POST']) def  
sign_up():  
    if request.method == 'POST':  
        email = request.form.get('email')  
first_name = request.form.get('firstName')
```

```

password1 = request.form.get('password1')
password2 = request.form.get('password2')

    user = User.query.filter_by(email=email).first()
if user:
    flash('Email already exists.', category='error')
elif len(email) < 4:
    flash('Email must be greater than 3 characters.', category='error')
elif len(first_name) < 2:
    flash('First name must be greater than 1 character.', category='error')
elif password1 != password2:
    flash('Passwords don\'t match.', category='error')    elif
len(password1) < 7:    flash('Password must be at least 7
characters.', category='error')    else:
    new_user = User(email=email, first_name=first_name, password=generate_password_hash(
password1, method='sha256'))    db.session.add(new_user)
    db.session.commit()
login_user(new_user,    remember=True)
flash('Account created!', category='success')
    return redirect(url_for('views.home'))

return render_template("sign_up.html", user=current_user)

```

models.py

```

from . import db from flask_login
import UserMixin
from sqlalchemy.sql import func

```

```

class Note(db.Model):    id = db.Column(db.Integer, primary_key=True)
data = db.Column(db.String(10000))    date =
db.Column(db.DateTime(timezone=True), default=func.now())
user_id = db.Column(db.Integer, db.ForeignKey('user.id'))

```

```

class User(db.Model, UserMixin):    id =
db.Column(db.Integer, primary_key=True)    email
= db.Column(db.String(150), unique=True)
password = db.Column(db.String(150))
first_name = db.Column(db.String(150))
    notes = db.relationship('Note')

```

views.py

```

from flask import Blueprint, render_template, request, flash, jsonify
from flask_login import login_required, current_user from .models
import Note from . import db
import json

views = Blueprint('views', __name__)

```

```

@views.route('/', methods=['GET', 'POST'])
@login_required def home():
    if request.method == 'POST':
        note = request.form.get('note')

        if len(note) < 1:
            flash('Note is too short!', category='error')
        else:
            new_note = Note(data=note, user_id=current_user.id)
            db.session.add(new_note)
            db.session.commit()
            flash('Note added!', category='success')

        return render_template("home.html", user=current_user)
    @views.route('/delete-note', methods=['POST']) def delete_note():
        note = json.loads(request.data)
        noteId = note['noteId']
        note = Note.query.get(noteId)
        if note:
            if note.user_id == current_user.id:
                db.session.delete(note)
                db.session.commit()

        return jsonify({})

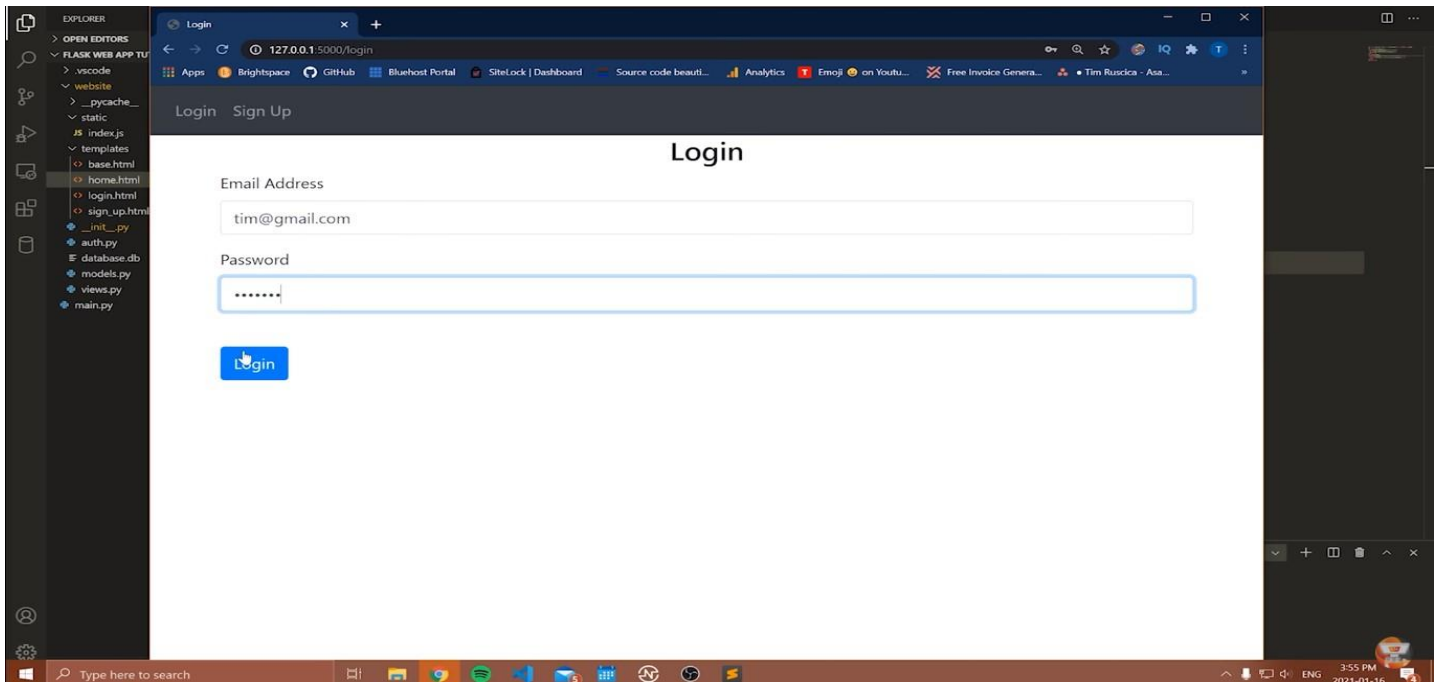
```

OUTPUT SCREENSHOTS

Step 1 : enter our email address and password

The screenshot displays a web browser window with the title 'Login'. The address bar shows the URL '127.0.0.1:5000/login?next=%2F'. The browser's tab bar contains several tabs, including 'Login', 'Brightspace', 'GitHub', 'Bluehost Portal', 'SiteLock | Dashboard', 'Source code beaut...', 'Analytics', 'Emoji', 'on You...', 'Free Invoice Genera...', 'Tim Ruscka - Ass...', 'XPanel', 'Hootsuite', and 'Sign Up to Buy and...'. The login page itself has a dark header with 'Login' and 'Sign Up' links. The main content area is white and contains two input fields: 'Email Address' with a placeholder 'Enter email' and 'Password' with a placeholder 'Password'. Below the fields is a blue 'Submit' button. The Windows taskbar is visible at the bottom with the time 1:42 PM.

STEP 2 : After enter that click "Login"



After that website redirect you to notes :

