**Practical No: 3**

**Aim:** To create a login page using a Flask APIwith MySQL connectivity.

**Code:**

1. **Login page html code for the application:**

<!DOCTYPE html>

<html>

<head>

<title>Login Page</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f2f2f2;

text-align: center;

}

.container {

background-color: #fff;

max-width: 400px;

margin: 100px auto;

padding: 20px;

border-radius: 5px;

box-shadow: 0 0 5px rgba(0, 0, 0, 0.3);

}

h3 {

font-size: 18px;

color: #007BFF; /\* Set text color to dark blue \*/

}

input {

display: block;

width: 100%;

padding: 6px;

margin: 10px 0;

border: 1px solid #ccc;

border-radius: 3px;

background-color: #f9f9f9; /\* Light grey background \*/

}

input[type="submit"] {

background-color: #007BFF; /\* Blue button \*/

color: #fff;

border: none;

padding: 10px 15px;

cursor: pointer;

}

</style>

</head>

<body>

<div class="container">

<h2>Login Page</h2><br>

<form action="/loginsql" method="POST">

<h3>Username:</h3>

<input type="text" id="username" name="username" required>

<h3>Password:</h3>

<input type="password" id="password" name="password" required>

<br>

<input type="submit" value="Login">

</form>

</div>

</body>

</html>

1. **About Me html code for the application:**

<!DOCTYPE html>

<html>

<head>

<title>About Me</title>

</head>

<body>

<table align="center" width="600">

<tr>

<td align="center">

<h1>About Me</h1>

</td>

</tr>

<tr>

<td align="center">

<p>Hi, thank you for logging in. I am Akansha Mishra, a 5th-year integrated M.Tech Bioengineering student. I love painting and drawing, and here is one of my paintings:)</p>

</td>

</tr>

<tr>

<td align="center">

<img src="{{ url\_for('static', filename='Fluid\_art.jpg') }}" style="max-width: 100%;">

</td>

</tr>

</table>

</body>

</html>

1. **Python file for the application:**

from flask import Flask, render\_template, request, redirect, url\_for

from flask\_mysqldb import MySQL

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

app.config['MYSQL\_HOST'] = 'localhost'

app.config['MYSQL\_USER'] = 'root'

app.config['MYSQL\_PASSWORD'] = 'root123'

app.config['MYSQL\_DB'] = 'flaskdb'

mysql = MySQL(app)

@app.route('/')

def func1():

return render\_template('loginsql.html')

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

def login():

if request.method == 'POST' and 'username' in request.form and 'password' in request.form:

username = request.form['username']

password = request.form['password']

cursor = mysql.connection.cursor()

cursor.execute("SELECT \* FROM flasktable WHERE user\_id=%s AND password\_user=%s", (username, password))

account = cursor.fetchone()

if account:

return render\_template('aboutme.html')

else:

return redirect(url\_for("fail"))

@app.route('/fail')

def fail():

return "Invalid Credentials- Please enter correct username and password!"

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)

1. **MySQL workbench database creation:**

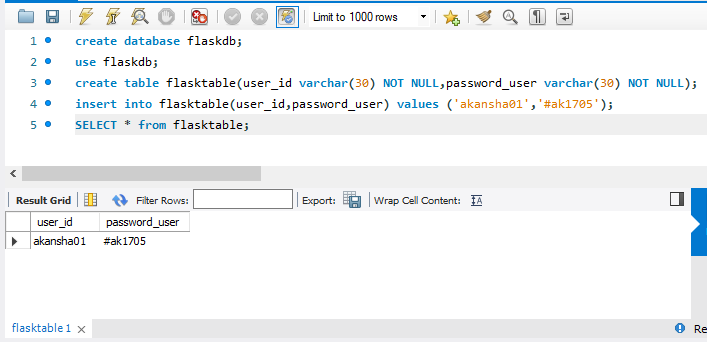
create database flaskdb;

use flaskdb;

create table flasktable(user\_id varchar(30) NOT NULL,password\_user varchar(30) NOT NULL);

insert into flasktable(user\_id,password\_user) values ('akansha01','#ak1705');

SELECT \* from flasktable;

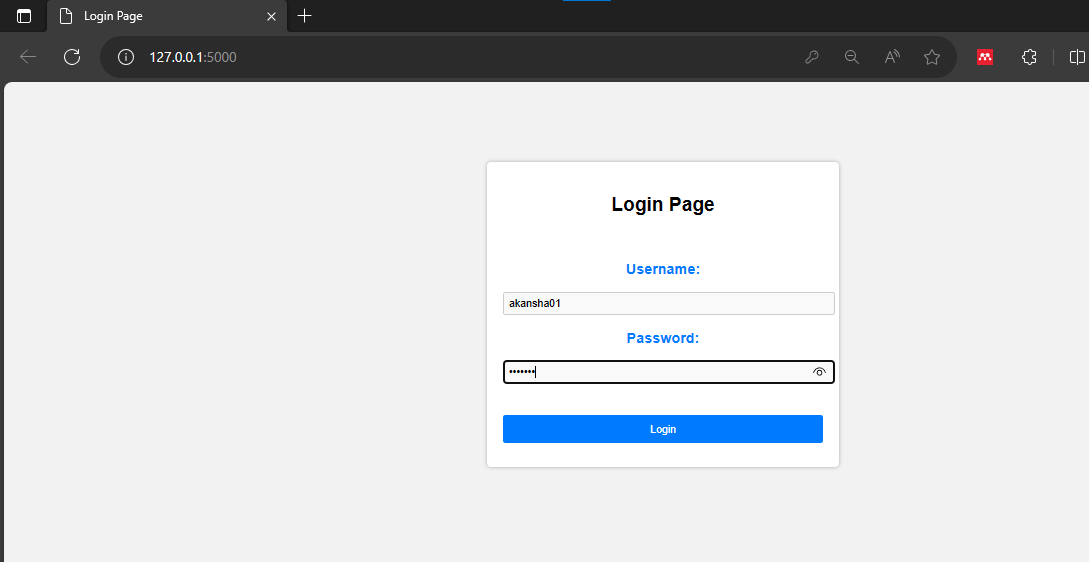


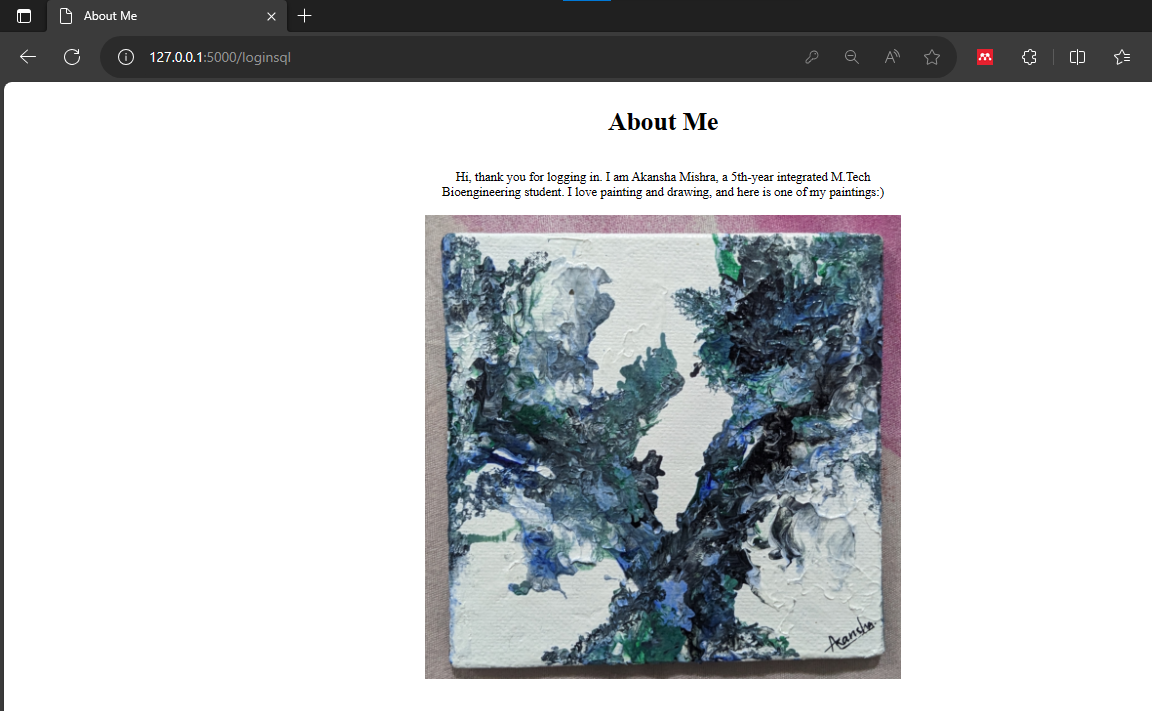
**Implementation:**

1. In the terminal run the following commands
2. Check if the python is already installed ---> python --version
3. E:\anchu\4th Year\Sem9\Adv Python\Practicals\FlaskSql> py -m venv flasksqlenv
4. PS E:\anchu\4th Year\Sem9\Adv Python\Practicals\FlaskSql> .\flasksqlenv\Scripts\activate
5. (flasksqlenv) PS E:\anchu\4th Year\Sem9\Adv Python\Practicals\FlaskSql> pip install flask
6. (flasksqlenv) PS E:\anchu\4th Year\Sem9\Adv Python\Practicals\FlaskSql> pip install flask-mysqldb
7. (flasksqlenv) PS E:\anchu\4th Year\Sem9\Adv Python\Practicals\FlaskSql> python sqlflask.py

**Output:**

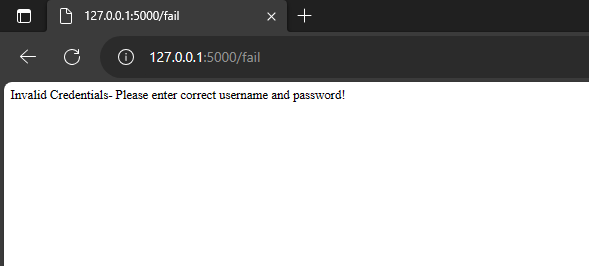
1. After successful login:

****

****

Directed to about me page if the username and password matches with the mysql database

1. Message displayed after unsuccessful login:

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If the username and password doesn’t match with the mysql database entry then it is redirected to the fail url and a message is displayed