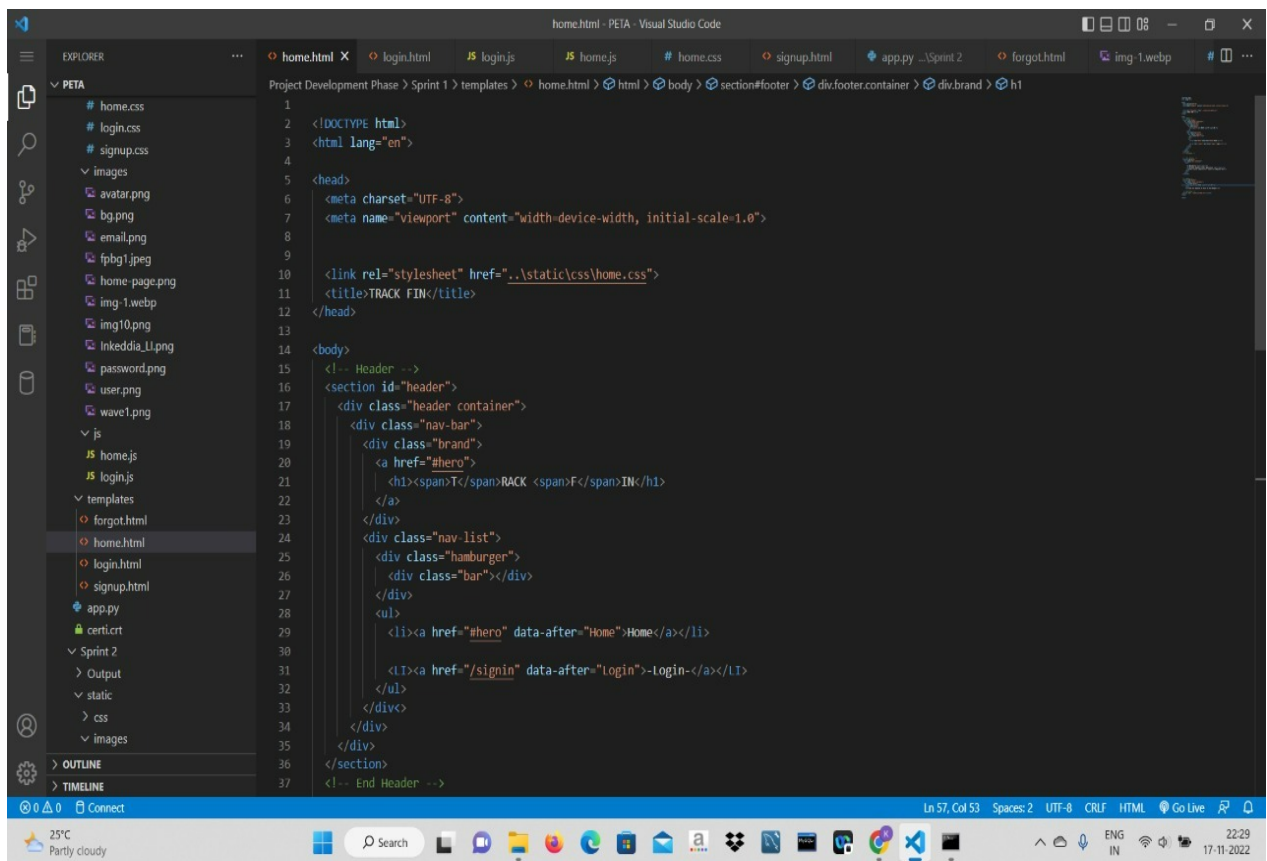


IMPLEMENTING WEB APPLICATION

Team ID	PNT2022TMID42215
Project Name	Personal Expense Tracker Application
Batch	B1-1M3E

CREATE UI TO INTERACT WITH APPLICATION:



```
1
2 <!DOCTYPE html>
3 <html lang="en">
4
5 <head>
6   <meta charset="UTF-8">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8
9
10  <link rel="stylesheet" href="..\static\css\home.css">
11  <title>TRACK FIN</title>
12 </head>
13
14 <body>
15   <!-- Header -->
16   <section id="header">
17     <div class="header_container">
18       <div class="nav-bar">
19         <div class="brand">
20           <a href="#hero">
21             <h1><span>T</span><span>RACK <span>F</span><span>IN</span></h1>
22           </a>
23         </div>
24         <div class="nav-list">
25           <div class="hamburger">
26             <div class="bar"></div>
27           </div>
28           <ul>
29             <li><a href="#hero" data-after="Home">Home</a></li>
30
31             <li><a href="/signin" data-after="login">-login</a></li>
32           </ul>
33         </div>
34       </div>
35     </div>
36   </section>
37   <!-- End Header -->
```

```
39
40
41 <!-- Hero Section -->
42 <section id="hero">
43   <div class="hero container">
44     <div>
45       <h1>Welcome To <span></span></h1>
46       <h1>Personal Expense Tracker Application <span></span></h1>
47       <a href="/signup" type="button" class="cta">Register here</a>
48     </div>
49   </div>
50 </section>
51
52
53 <!-- Footer -->
54 <section id="footer">
55   <div class="footer container">
56     <div class="brand">
57       <h1><span>T</span><span>RACK <span>F</span><span>IN</span></h1>
58     </div>
59     <h2>Track Your Expenses To Stick To Your Budget!</h2>
60
61 <!--End Footer -->
62 <script src="../../static/js/home.js"></script>
63 </body>
64
65 </html>
66
```

CREATE IBM DB2 AND CONNECT WITH PYTHON :

```
1 from flask import Flask, render_template, request, redirect, session, url_for
2 import ibm_db
3 import re
4
5 app = Flask(__name__)
6
7 hostname = 'fbd88901-ebdb-4a4f-a32e-9822b9fb237b.c10g3sd0tgu0lqde00.databases.appdomain.cloud'
8 uid = 'mfb94822'
9 pwd = 'PXytupb5ky3R8SDk'
10 driver = "{IBM DB2 ODBC DRIVER}"
11 db_name = 'Bludb'
12 port = '32731'
13 protocol = 'TCPIP'
14 cert = "certi.crt"
15 dsn = (
16     "DATABASE={0};"
17     "HOSTNAME={1};"
18     "PORT={2};"
19     "UID={3};"
20     "SECURITY=SSL;"
21     "PROTOCOL={4};"
22     "PWD={6};"
23 ).format(db_name, hostname, port, uid, protocol, cert, pwd)
24 connection = ibm_db.connect(dsn, "", "")
25 app.secret_key = 'a'
26
27
28 @app.route("/")
29 def add():
30     return render_template("home.html")
31
32
33
34
35
36
37
```

The screenshot shows a Visual Studio Code editor with a Python Flask application. The Explorer pane on the left shows a file structure with various assets and templates. The main editor displays the `app.py` file, which includes a `login` route. The code uses `flask` and `sqlite3` to handle user authentication. The `login` function checks the username and password against a database and sets a session if the login is successful.

```

111 # LOGIN--PAGE
112
113 @app.route("/signin")
114 def signin():
115     return render_template('login.html')
116
117 @app.route('/login', methods=['GET', 'POST'])
118 def login():
119     global userid
120     msg = ''
121
122     if request.method == 'POST':
123         username = request.form['username']
124         password = request.form['password']
125         sql = "SELECT * FROM register WHERE username=? AND password=?"
126         stmt = ibm_db.prepare(connection, sql)
127         ibm_db.bind_param(stmt, 1, username)
128         ibm_db.bind_param(stmt, 2, password)
129         ibm_db.execute(stmt)
130         account = ibm_db.fetch_assoc(stmt)
131         print (account)
132
133         if account:
134             session['loggedin'] = True
135             session['id'] = account['USERNAME']
136             userid= account['USERNAME']
137             session['USERNAME'] = account['USERNAME']
138
139             return redirect('/home')
140         else:
141             msg = 'Incorrect username / password !'
142             return render_template('login.html', msg = msg)
143
144
145 if __name__ == "__main__":
146     app.run(debug=True)

```

OUTPUT:

The screenshot shows the IBM Db2 on Cloud console. The 'Tables' tab is selected, and the 'MFB94822.REGISTER' table is displayed. The table contains one row of data. The console also shows the 'Export to CSV' button and the 'Back' button.

USERNAME	EMAIL	PASSWORD
kaviya	bjscgiba@gmail.com	kagdiscikCYHCJ