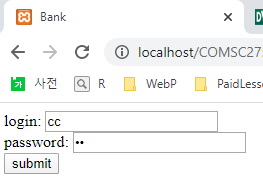
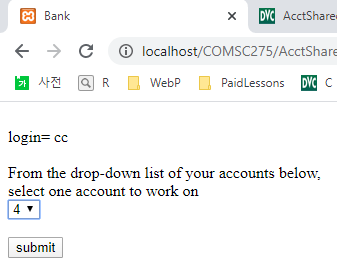
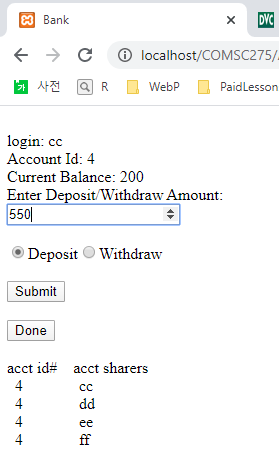
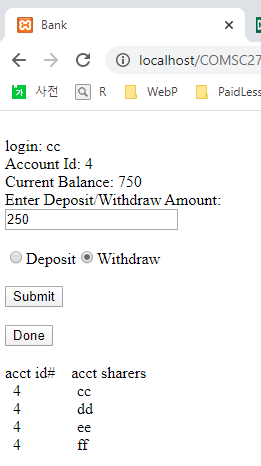
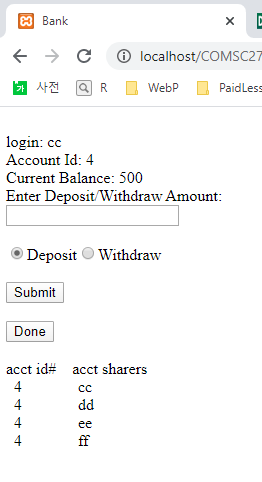
AcctSharedAjax

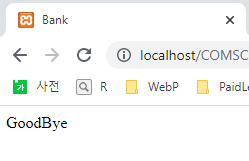












Index.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Bank</title>

</head>

<script>

    var myReq = new XMLHttpRequest();

    var calltwice = 0;

    function autoclick(type){

        calltwice = 0;

        main(type);

        calltwice = 1;

        setTimeout(function(){main(type)}, 250);

    }

    function main(type){//type = type of function

        var thePage;

        var theURL;

        if(type == "login"){

            var login = document.getElementById("login").value;

            var password = document.getElementById("password").value;

            thePage = "Login.py"

            theURL = thePage + "?login=" + login;

            theURL += "&password=" + password;

            myReq.onreadystatechange = OnReadyState(type);

            myReq.open("GET", theURL, true);

            myReq.send(null);

        }

        if(type == "SelectAcct"){

            var id = document.getElementById("ID").value;

            thePage = "AcctAccess.py";

            theURL = thePage + "?ID=" + id;

            myReq.onreadystatechange = OnReadyState(type);

            myReq.open("GET", theURL, true);

            myReq.send(null);

        }

        if(type == "submit"){

            var id = document.getElementById("ID").value;

            var amount = document.getElementById("amount").value;

            var choice = "";

            if(document.getElementById('rb1').checked){

                choice = document.getElementById("rb1").value;

            }

            else{

                choice = document.getElementById("rb2").value;

            }

            thePage = "DoAcctAccess.py";

            theURL = thePage + "?ID=" + id + "&choice=" + choice + "&amount=" + amount;

            theURL = theURL + "&calltwice=" + calltwice;

            myReq.onreadystatechange = OnReadyState("SelectAcct");

            myReq.open("GET", theURL, true);

            myReq.send(null);

        }

        if(type == "done"){

            document.getElementById("main").innerHTML = "GoodBye";

        }

    }

    function OnReadyState(type){

        var div = document.getElementById("main");

        var out = "";

        if(myReq.readyState == 4 && myReq.status == 200 && calltwice){

            if(type == "login"){

                if(myReq.responseText.includes("invalid")){//If Failed to login

                    out ="Invalid Login and Password";

                }

                else{

                    var JSONObj = JSON.parse(myReq.responseText);

                    out = "<br>login= " + JSONObj.login;

                    out = out + "<input type=\"hidden\" id=\"login\" value=\"" + JSONObj.login + "\">";

                    out += "<br>";

                    out += "<br>From the drop-down list of your accounts below,";

                    out += "<br>select one account to work on";

                    out += "<br><select id=\"ID\" name=\"ID\">";

                    for(x in JSONObj.acctList){

                        out = out + "<option value=" + JSONObj.acctList[x] + ">" + JSONObj.acctList[x] + "</option>"

                    }

                    out += "</select><br><br>";

                    out += "<input type=\"submit\" name=\"SelectAcct\" value=\"submit\" onClick=\"autoclick(this.name)\">";

                    div.innerHTML = out;

                }

            }

            if(type == "SelectAcct"){

                var login = document.getElementById("login").value;

                var id = document.getElementById("ID").value;

                var JSONObj = JSON.parse(myReq.responseText);

                var balance = JSONObj.balance;

                var logins = JSONObj.logins;

                out = out + "<br>login: " + login;

                out = out + "<input type=\"hidden\" id=\"login\" value=\"" + login + "\">";

                out = out + "<br>Account Id: " + id;

                out = out + "<input type=\"hidden\" id=\"ID\" value=\"" + id + "\">";

                out = out + "<br>Current Balance: " + balance;

                out += "<br>Enter Deposit/Withdraw Amount: ";

                out += "<br><input type=\"number\" id=\"amount\" col=\"10\" autofocus />";

                out += "<br><br>";

                out += "<input type=\"radio\" id=\"rb1\" name=\"choice\" value=\"deposit\" checked />Deposit";

                out += "<input type=\"radio\" id=\"rb2\" name=\"choice\" value=\"withdraw\" />Withdraw";

                out += "<br><br><input type=\"submit\" name=\"submit\" value=\"Submit\" onClick=\"autoclick(this.name)\"/>";

                out += "<br><br><input type=\"submit\" name=\"done\" value=\"Done\" onClick=\"autoclick(this.name)\"/>";

                out += "<br><br>";

                out += "acct id#&emsp;acct sharers";

                for(x in logins){

                    out = out + "<br>&ensp;" + id + "&emsp;&emsp;&emsp;&ensp;" + logins[x];

                }

                div.innerHTML = out;

            }

        }

    }

</script>

<body>

    <div id="main">

        login:

        <input type="text" id="login" name="login" col="10">

        <br>

        password:

        <input type="password" id="password" name="password" col="10">

        <br>

        <input type="submit" name="login" value="submit"

            onClick="autoclick(this.name)">

    </div>

</body>

</html>

dbAccess.py

#!/Python27/python  
  
import cgi  
import sqlite3  
  
  
def findPassword(login):  
 db = "acct.db"  
 try:  
 conn = sqlite3.connect(db)  
 cursor = conn.cursor()  
 sql = '''select password from pswdTbl  
 where login="{}" '''.format(login)  
 cursor.execute(sql)  
 dbPasswordList = cursor.fetchone()  
 if dbPasswordList == None:  
 dbPassword = None  
 else:  
 dbPassword = dbPasswordList[0]  
 conn.commit()  
 conn.close()  
 return dbPassword  
 except Exception as ex:  
 cgi.print\_exception()  
  
  
def findAcctIds(login):  
 db = "acct.db"  
 try:  
 acctIdList = []  
 conn = sqlite3.connect(db)  
 cursor = conn.cursor()  
 sql = '''select id from acctTbl  
 where login="{}" '''.format(login)  
 cursor.execute(sql)  
 acctIdListSeq = cursor.fetchall()  
 for acctIdSeq in acctIdListSeq:  
 acctIdList.append(acctIdSeq[0])  
 conn.commit()  
 conn.close()  
 return acctIdList  
 except Exception as ex:  
 cgi.print\_exception()  
  
  
def findBalance(acctId):  
 db = "acct.db"  
 try:  
 conn = sqlite3.connect(db)  
 cursor = conn.cursor()  
 sql = '''select balance from acctTbl  
 where id={}'''.format(acctId)  
 cursor.execute(sql)  
 balance = (cursor.fetchone())[0]  
 conn.commit()  
 conn.close()  
 return balance  
 except Exception as ex:  
 cgi.print\_exception()  
  
  
def deposit(acctId, amount):  
 db = "acct.db"  
 try:  
 conn = sqlite3.connect(db)  
 cursor = conn.cursor()  
 sql = '''select balance from acctTbl  
 where id={}'''.format(acctId)  
 cursor.execute(sql)  
 balance = float((cursor.fetchone())[0])  
 newBalance = balance + amount  
 sql = '''update acctTbl set balance={}  
 where id={}'''.format(newBalance, acctId)  
 cursor.execute(sql)  
 conn.commit()  
 conn.close()  
 return newBalance  
 except Exception as ex:  
 cgi.print\_exception()  
  
  
def withdraw(acctId, amount):  
 db = "acct.db"  
 try:  
 conn = sqlite3.connect(db)  
 cursor = conn.cursor()  
 sql = '''select balance from acctTbl  
 where id={}'''.format(acctId)  
 cursor.execute(sql)  
 balance = float((cursor.fetchone())[0])  
 newBalance = balance - amount  
 sql = '''update acctTbl set balance={}  
 where id={}'''.format(newBalance, acctId)  
 cursor.execute(sql)  
 conn.commit()  
 conn.close()  
 return newBalance  
 except Exception as ex:  
 cgi.print\_exception()  
  
  
def findAcctLogins(acctId):  
 db = "acct.db"  
 dbLogin = []  
 try:  
 conn = sqlite3.connect(db)  
 cursor = conn.cursor()  
 sql = '''select login from idLoginTbl  
 where id={}'''.format(acctId)  
 cursor.execute(sql)  
 dbLogin = cursor.fetchall()  
 conn.commit()  
 conn.close()  
 return dbLogin  
 except Exception as ex:  
 cgi.print\_exception()

formInput.py

#!/Python27/python  
  
  
import cgi  
  
  
def getLoginInput():  
 f = cgi.FieldStorage()  
 login = f.getvalue('login')  
 password = f.getvalue("password")  
 return login, password  
  
  
def getAcctListInput():  
 f = cgi.FieldStorage()  
 acctSelected = int(f.getvalue('ID'))  
 return acctSelected  
  
  
def getAcctInput():  
 f = cgi.FieldStorage()  
 id = int(f.getvalue('ID'))  
 amount = float(f.getvalue('amount'))  
 choice = f.getvalue('choice')  
 calltwice = int(f.getvalue("calltwice"))  
 return id, amount, choice, calltwice

Login.py

#!/Python27/python  
  
import cgi  
import json  
from dbAccess import findPassword  
from dbAccess import findAcctIds  
from formInput import getLoginInput  
  
print("Content\_type: text/text\n\n")  
  
login, password = getLoginInput()  
  
if findPassword(login) == None or \  
 findPassword(login) != password:  
 print("invalid")  
else:  
 Obj = {'acctList': findAcctIds(login), 'login': login}  
 jsonObj = json.dumps(Obj)  
 print(jsonObj)

AcctAccess.py

#!/Python27/python  
  
import cgi  
import json  
from formInput import getAcctListInput  
from dbAccess import findBalance  
from dbAccess import findAcctLogins  
  
print("Content\_type: text/text \n\n")  
  
id = getAcctListInput()  
  
logins = findAcctLogins(id)  
  
Obj = {'balance': findBalance(id), 'logins': logins}  
jsonObj = json.dumps(Obj)  
print(jsonObj)

DoAcctAccess.py

#!/Python27/python  
  
import cgi  
import json  
  
from formInput import getAcctInput  
from dbAccess import findBalance  
from dbAccess import deposit  
from dbAccess import withdraw  
from dbAccess import findAcctLogins  
  
print("Content\_type: text/text \n\n")  
  
id, amount, choice, calltwice = getAcctInput()  
  
logins = findAcctLogins(id)  
  
balance = findBalance(id)  
  
if choice == "deposit" and calltwice == 0:  
 deposit(id, amount)  
 balance = balance + amount  
if choice == "withdraw" and calltwice == 0:  
 withdraw(id, amount)  
 balance = balance - amount  
  
if calltwice == 1:  
  
 Obj = {"balance": findBalance(id), "logins": logins}  
 jsonObj = json.dumps(Obj)  
 print(jsonObj)  
elif calltwice == 0:  
  
 Obj = {"balance": balance, "logins": logins}  
 jsonObj = json.dumps(Obj)  
 print(jsonObj)