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BANKING WEBSITE

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OVERVIEW

A website which performs operations and manages customers and their accounts.

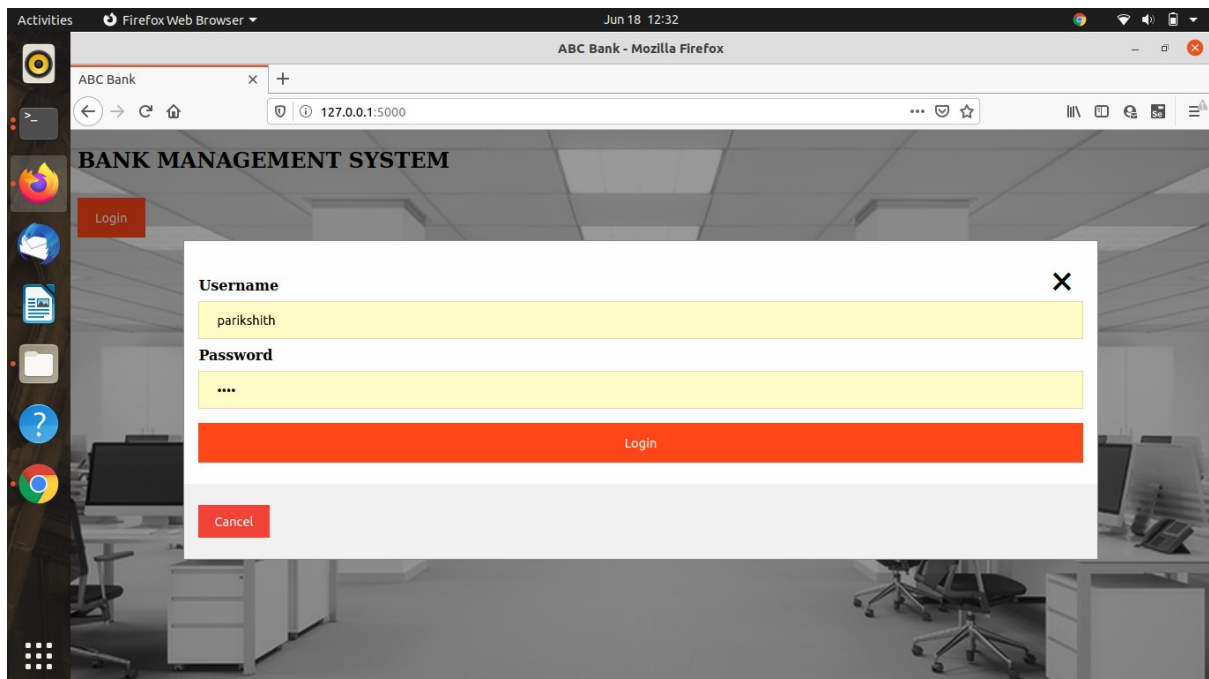
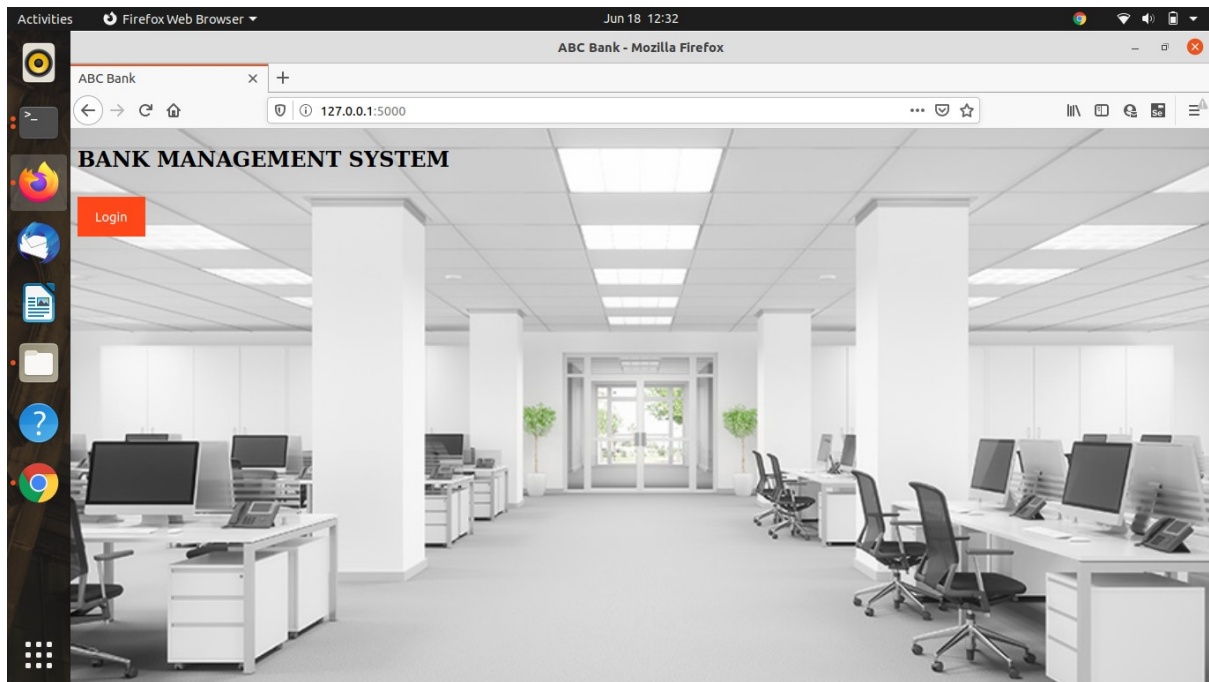
GOALS

To develop a website which can perform operations like adding, deleting, searching, updating information, transfer money, status on customers and accounts.

FUNCTIONS

LOGIN

The login function is for the bank employee where he/she needs to enter the login credentials like username and password to login to the bank website. If the credentials entered are correct the user is shown a success message and is granted access to the website. If the credentials are wrong, the user is shown an error message.



BODY:

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

```
def login():
```

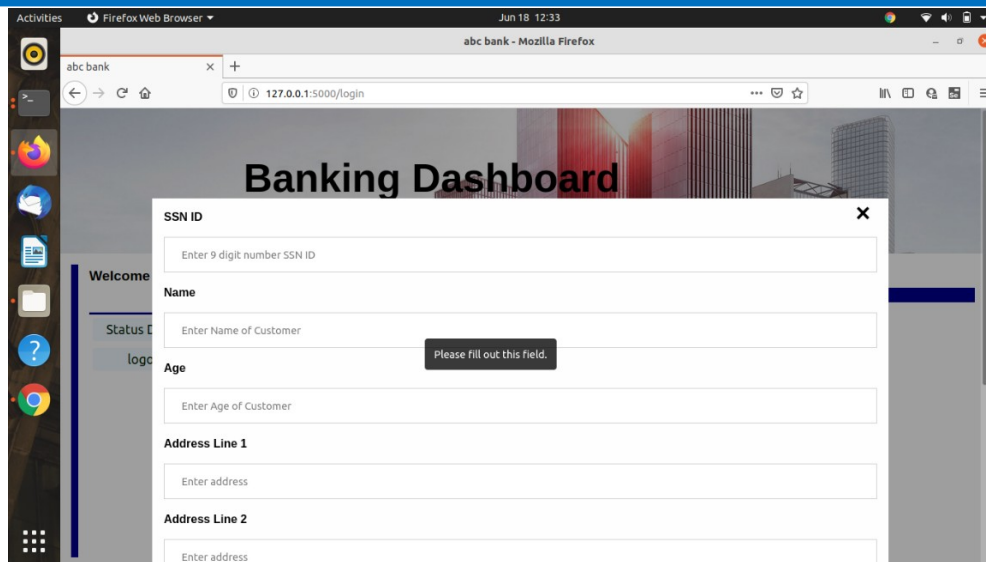
```
    error = None
```

```
    if request.method == 'POST':
```

```
username=request.form['uname']
psw=request.form['psw']
print(username)
try:
    session['cid'],session['cssn']=None,None
    sql=("""select SSN,Username,Password from userstore where Username=%s and Password=
%s""",(username,psw))
    conn.execute(*sql)
    ssn,un,psw,=conn.fetchone()
    session['username'],session['psw'],session['SSN']=un,psw,ssn
    print(session['SSN'])
    if request.form['uname'] != un or request.form['psw'] != psw:
        error="Invalid Credentials. Please try again."
        return render_template('index.html',er=error)
    else:
        return
    render_template("dash.html",welcome=session.get('username'),val=True,vals=True)
except:
    error="Invalid Credentials. Please try again."
    return render_template('index.html',er=error)
    print("error")
return render_template('index.html',er=error)
```

CREATE CUSTOMER

Once the employee has logged in, he can create a new customer profile to add a new customer by clicking on 'Create Customer'. After this is done, a new customer profile is created and added to the bank's website.



BODY:

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

```
def addncus():
```

```
    if request.method == 'POST':
```

```
        ssnid=request.form['ssn']
```

```
        if(len(ssnid)!=9):
```

```
            error="plz give 9 digit SSN"
```

```
        return
```

```
    render_template('dash.html',welcome=session.get('username'),er=error,vals=True,vals=True)
```

```
    name=request.form['name']
```

```
    age=request.form['age']
```

```
    addl1=request.form['addressl1']
```

```
    addl2=request.form['addressl2']
```

```
    state=request.form['state']
```

```
    city=request.form['city']
```

```
    addl1=addl1+addl2
```

```
    global customerid
```

```
    customerid+=1
```

```
    print(customerid)
```

```
    try:
```

```
        msg="customer created successfully"
```

```
        print(msg)
```

```
        tuplev=(ssnid,customerid,name,addl1,state,city,age,msg)
```

```
        sql=("""insert into Customer(SSNID,Customerid,Name,Address,State,City,Age,message)
VALUES (%s,%s,%s,%s,%s,%s,%s,%s)""",tuplev)
```

```
        conn.execute(*sql)
```

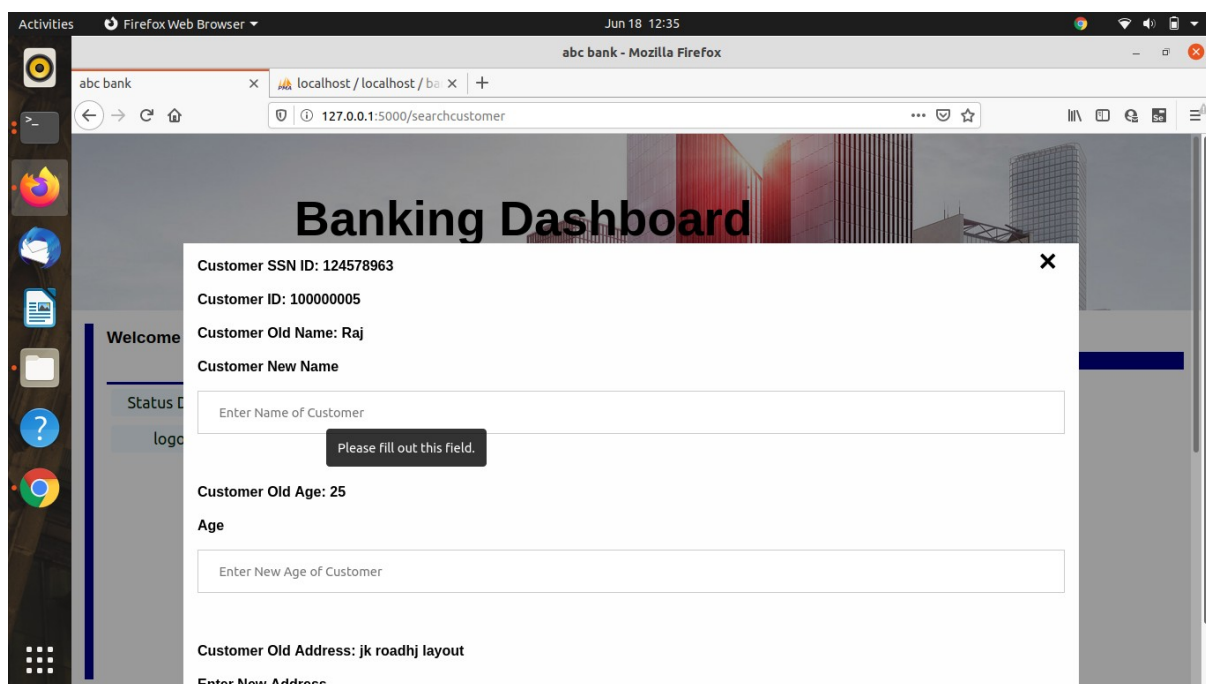
```

        return
    render_template("dash.html",welcome=session.get('username'),vala=True,vals=True)
except:
    error="process couldnt b done"
    return
render_template('dash.html',welcome=session.get('username'),er=error,vala=True,vals=True)
print("error")

```

UPDATE CUSTOMER

The bank employee can update any information of an already existing customer by clicking on 'Update Customer'. Here the employee can edit information about the customer from any old information to new and updated information of the customer. To update the customer information the employee has to provide the SSN number and customer ID.



BODY:

```

@app.route('/updatecus',methods=['POST','GET'])
def updatecus():
    if(session.get('cssn')==None):
        error="plz find which customer"
        print(error)

```

```

        return
    render_template('dash.html',welcome=session.get('username'),er=error,val=True,vals=True,vals=True)

    if request.method == 'POST':
        try:
            ssn=session.get('cssn')
            print(ssn)

            sql="""select SSNID,Customerid,Name,Address,Age from Customer where SSNID=%s""" ,
(ssn)

            conn.execute(*sql)
            cssid,cusid,cname,coaddress,coage=conn.fetchone()
            name=request.form['name']
            age=request.form['age']
            addl1=request.form['address']
            msg="customer updated succesfully"
            tuplev=(name,addl1,age,msg,ssn)

            sql="""update Customer set Name=%s,Address=%s,Age=%s,message=%s where SSNID=
%s""" ,tuplev)

            conn.execute(*sql)

            return
        render_template("dash.html",welcome=session.get('username'),vals=True,vals=True,cssid=cssid,
        cusid=cusid,cname=cname,cadd=coaddress,cage=coage)

    except:
        error="process couldnt b done"

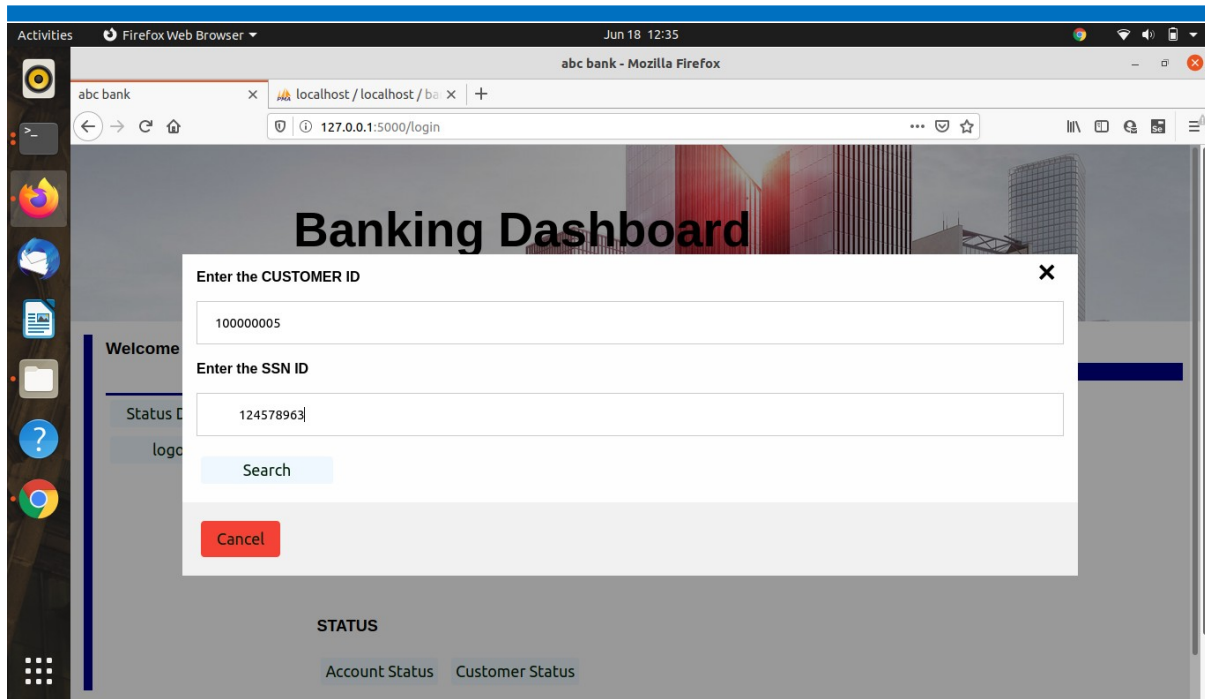
        return
    render_template('dash.html',welcome=session.get('username'),vals=True,vals=True)

    print("error")

```

SEARCH CUSTOMER

The 'Search customer' option is used to search the customer with known information so that operations can be performed on the profile. To search the customer profile the employee has to enter the SSN number and customer ID. After searching the employee can perform operations like update and delete.



BODY:

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

```
def searchcus():
```

```
    if request.method == 'POST':
```

```
        try:
```

```
            ssn=request.form['ssnid']
```

```
            cid=request.form['cid']
```

```
            sql=("""select SSNID,Customerid from Customer where Customerid=%s and SSNID=%s""",
(cid,ssn))
```

```
            try:
```

```
                conn.execute(*sql)
```

```
                cssn,caid=conn.fetchone()
```

```
                if(str(caid)!=cid and str(cssn)!=ssn):
```

```
                    error="process couldnt b done due incorrect values"
```

```
                    return
```

```
            render_template('dash.html',welcome=session.get('username'),vala=True,vals=True,er=error)
```

```
        except:
```

```
            error="process couldnt b done due incorrect values"
```

```
            print(error)
```

```
            return
```

```
            render_template('dash.html',welcome=session.get('username'),vala=True,vals=True,er=error)
```

```
            session['cid'],session['cssn']=cid,ssn
```

```
            sql=("""select SSNID,Customerid,Name,Address,Age from Customer where SSNID=%s""",
(ssn))
```

```

conn.execute(*sql)

cssid,cusid,coname,coaddress,coage=conn.fetchone()

print(coage)

return
render_template("dash.html",welcome=session.get('username'),vala=True,vals=True,cssid=cssid,
cusid=cusid,cname=coname,cadd=coaddress,cage=coage)

except:

    error="process couldnt b done"

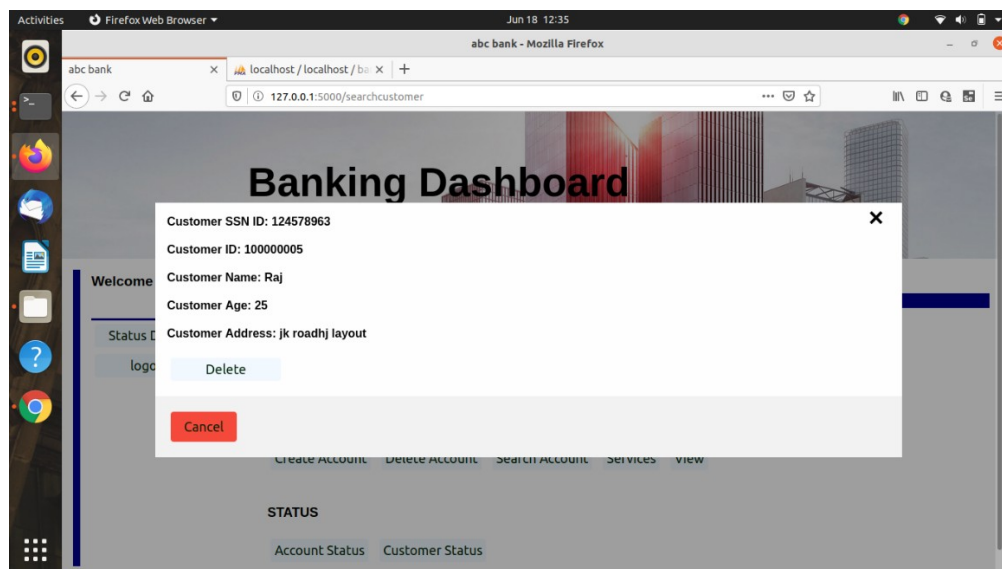
    return
render_template('dash.html',welcome=session.get('username'),val=True,vala=True,vals=True,er=
error)

print("error")

```

DELETE CUSTOMER

The 'Delete Customer' option is used to delete a customer's profile from the bank website if a customer wishes to close his profile.



BODY:

```

@app.route('/deletecustomer',methods=['POST','GET'])
def deletecustomer():
    if(session.get('cssn')==None):
        error="plz find which customer"
        print(error)

    return
render_template('dash.html',welcome=session.get('username'),er=error,val=True,vala=True,vals=
True)

print((session.get('cssn')))

```

```
sql="""select SSNID,Customerid,Name,Address,Age from Customer where SSNID=%s""",
(session.get('cssn'))
conn.execute(*sql)
print((session.get('cssn')))
cssid,cusid,cname,cadd,cage=conn.fetchone()
sql="""delete from Customer where SSNID=%s and Customerid=%s""",(cssid,cusid))
conn.execute(*sql)
session.pop('cssn', None)
session.pop('cid', None)
return
render_template("dash.html",vala=True,vals=True,welcome=session.get('username'),cssid=cssid,
cusid=cusid,cname=cname,cadd=cadd,cage=cage)
```

LOGOUT

The employee can logout of the bank's website by clicking on 'Logout'.

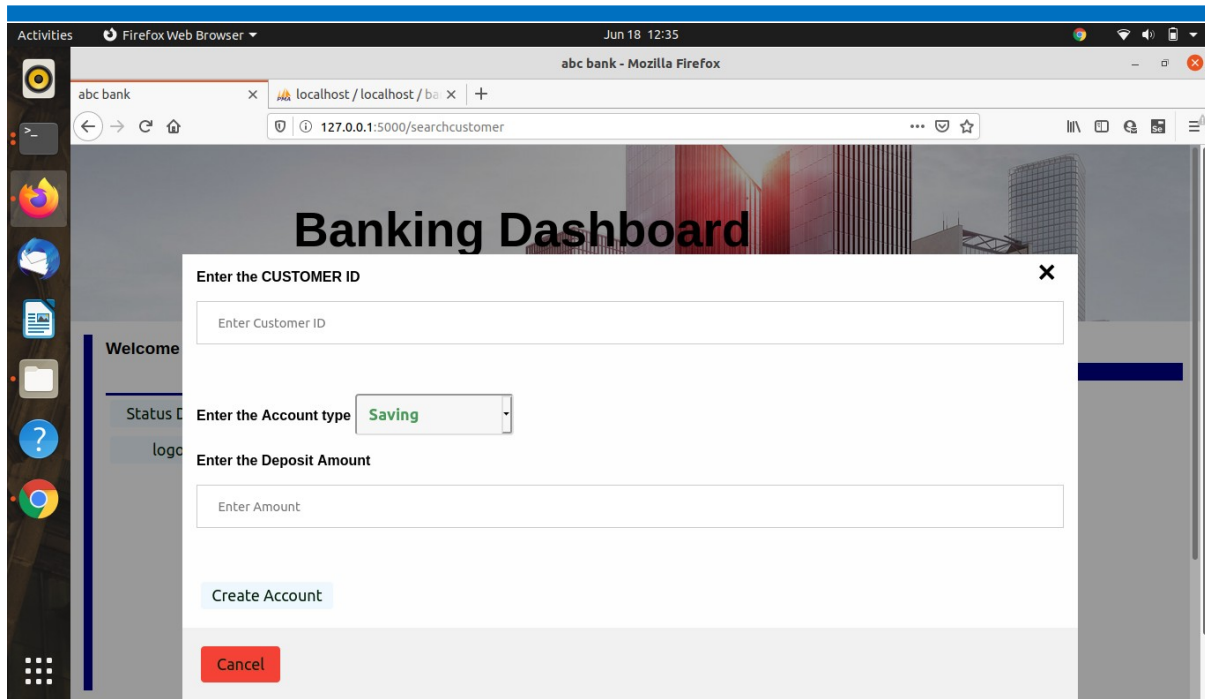
BODY:

```
@app.route('/logout',methods=['POST','GET'])
def logout():
    if request.method == 'POST':
        if 'lout' in request.form:
            session.pop('username', None)

            session.pop('passwrld', None)
            session.pop('SSN', None)
            return render_template("index.html")
```

ADD ACCOUNT

The bank employee can create an account by entering credentials of the customer if the customer wishes to add a new account in order to preform monetary transactions from the bank's website.



BODY:

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

```
def addaccount():
```

```
    if request.method == 'POST':
```

```
        cid=request.form['cid']
```

```
        acctype=request.form['acctype']
```

```
        amt=request.form['amount']
```

```
    try:
```

```
        sql=("select Customerid from Customer where Customerid=%s"%(cid))
```

```
        conn.execute(*sql)
```

```
        caid=conn.fetchone()
```

```
        if(str(caid[0])!=cid):
```

```
            error="process couldnt b done due incorrect values"
```

```
            print(error)
```

```
        return
```

```
    render_template('dash.html',welcome=session.get('username'),val=True,cala=True,vals=True,er=error)
```

```
    except:
```

```
        error="process couldnt b done due incorrect values"
```

```
        print(error)
```

```
    return
```

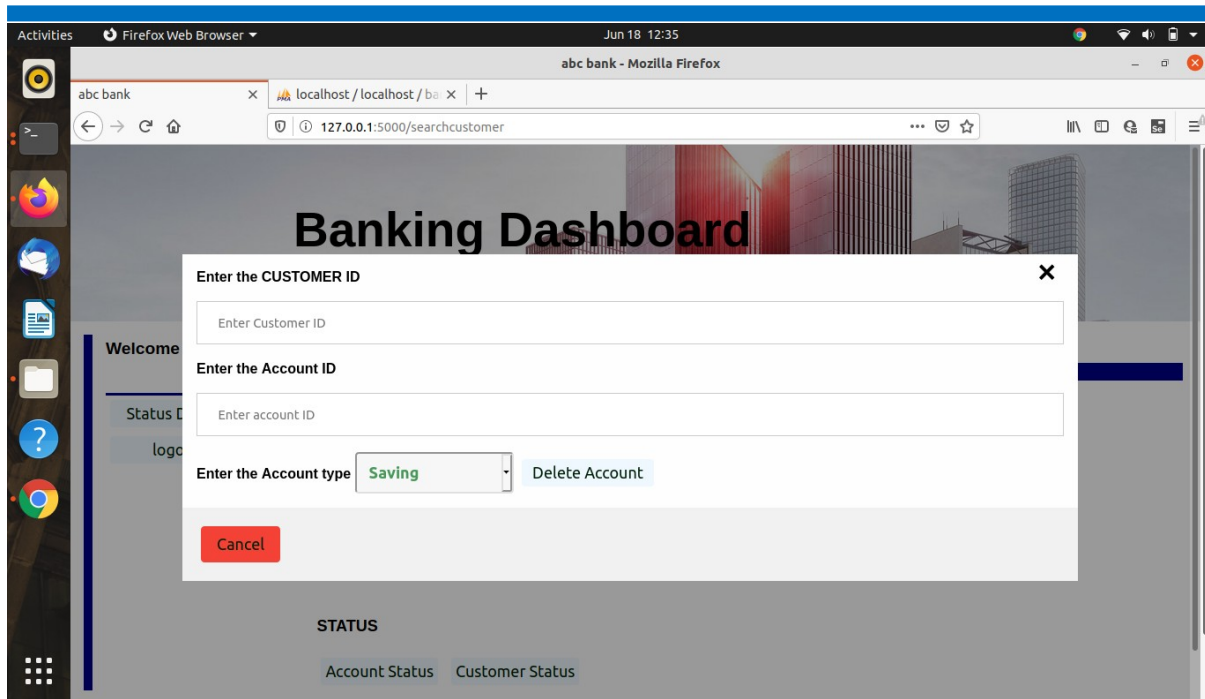
```
    render_template('dash.html',welcome=session.get('username'),val=True,cala=True,vals=True,er=error)
```

```
    try:
```

```
global accid
accid+=1
print(accid)
msg="account created succesfully"
tuplev=(accid,cid,amt,acctype,msg)
print(tuplev)
sql="""insert into Account(Accountid,cusid,Balance,accounttype,msg) VALUES (%s,%s,%s,%s,%s)""" ,tuplev
print(conn.execute(*sql))
tuplev=(accid,cid,amt,msg)
sql="""insert into personalaccount(aid,cid,abalance,msg)VALUES(%s,%s,%s,%s)""" ,tuplev
conn.execute(*sql)
return render_template('dash.html',welcome=session.get('username'))
except:
    error="process couldnt b done"
    return
render_template('dash.html',welcome=session.get('username'),val=True,cala=True,vals=True)
print("error")
```

DELETE ACCOUNT

The bank employee can delete a customer's account from the bank website if the customer wishes to end his monetary transaction on the platform by clicking on 'Delete Account'.



BODY:

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

```
def deleteaccount():
```

```
    if request.method == 'POST':
```

```
        cid=request.form['cid']
```

```
        acctype=request.form['acctype']
```

```
        aid=request.form['aid']
```

```
    try:
```

```
        sql="""select Accountid,cusid from Account where cusid=%s and Accountid=%s""",
        (cid,aid))
```

```
        conn.execute(*sql)
```

```
        caid,fcid=conn.fetchone()
```

```
        print(caid)
```

```
    except:
```

```
        error="process couldnt b done due incorrect values"
```

```
        print(error)
```

```
    return
```

```
render_template('dash.html',welcome=session.get('username'),val=True,cala=True,vals=True,er=
error)
```

```
    try:
```

```
        tuplev=(aid,cid)
```

```
        sql="""delete from Account where Accountid=%s and cusid=%s""",tuplev)
```

```
        conn.execute(*sql)
```

```
        amt="0"
```

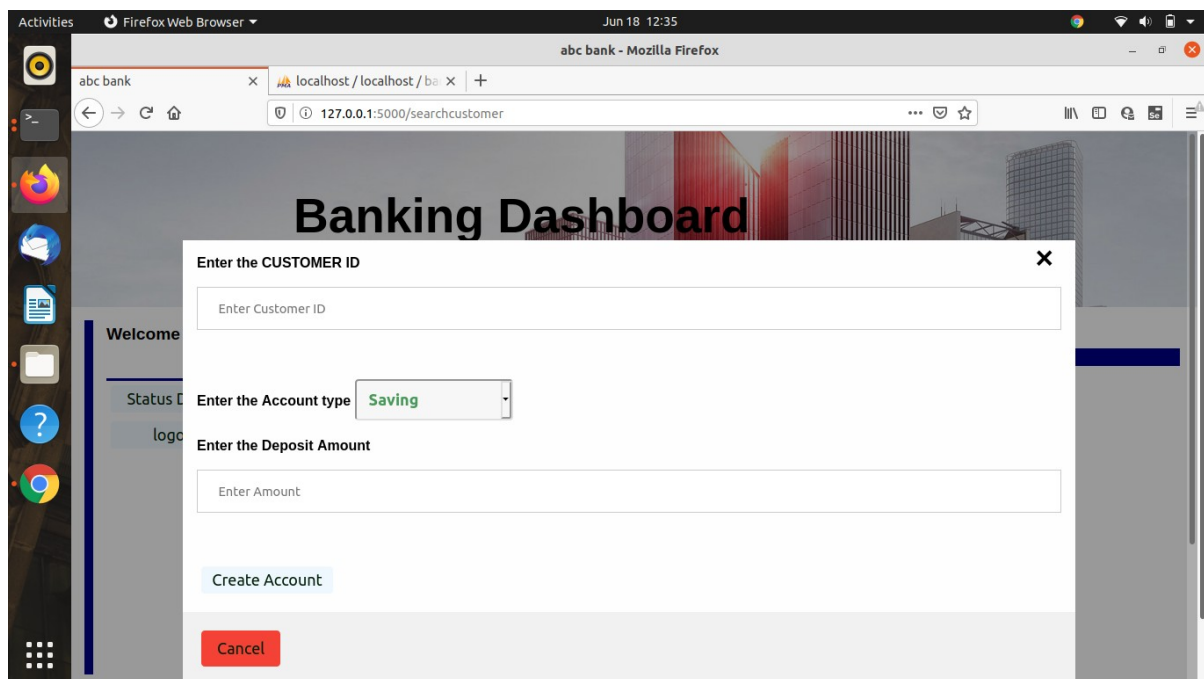
```

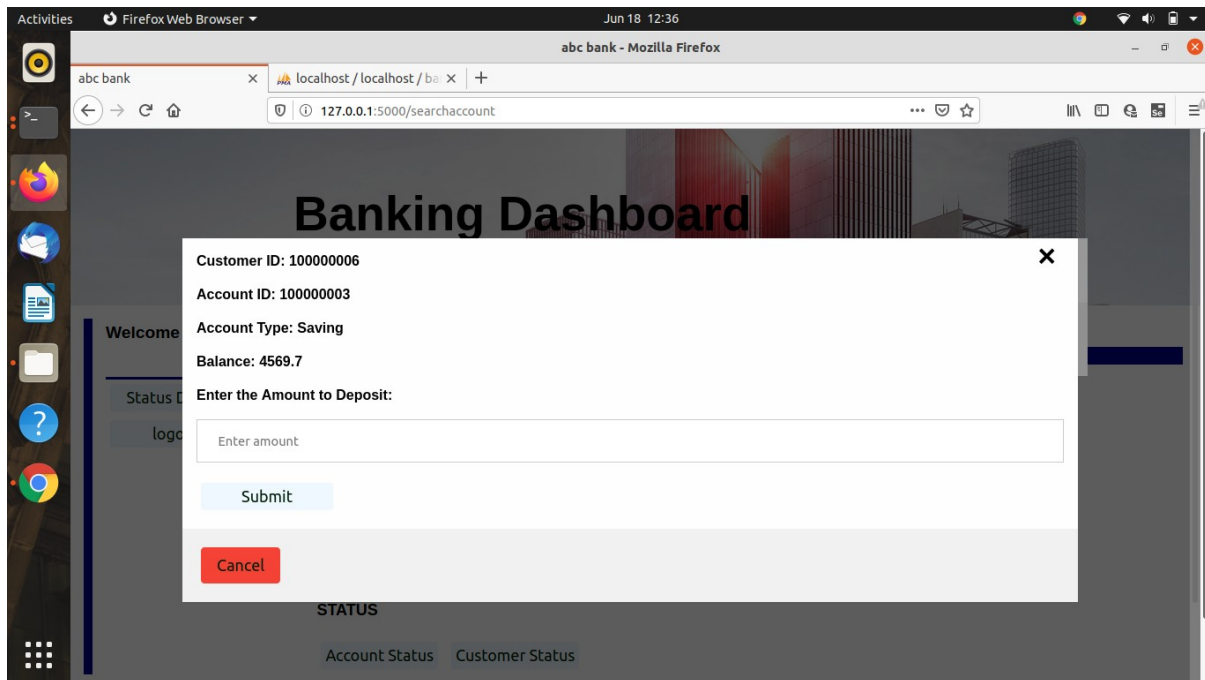
msg="account deleted"
tuplev=(aid,cid,amt,msg)
print(tuplev)
sql=("insert into personalaccount(aid,cid,abalance,msg)VALUES(%s,%s,%s,%s)"",tuplev)
conn.execute(*sql)
return render_template('dash.html',welcome=session.get('username'))
except:
    error="process couldnt b done"
    return
render_template('dash.html',welcome=session.get('username'),val=True,cala=True,vals=True)
print("error")

```

DEPOSIT MONEY

The bank employee can deposit money to a customer's account from the bank website. In order to do this, the employee has to provide the account ID provided to the customer.





BODY:

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

```
def depositmoney():
```

```
    if request.method == 'POST':
```

```
        amt=request.form['amt']
```

```
        try:
```

```
            sql="""select Accountid,cusid,balance,accounttype from Account where Accountid=%s""" ,
            (session.get('aid'))
```

```
            conn.execute(*sql)
```

```
            aid,cusid,bal,at=conn.fetchone()
```

```
            bal=float(amt)+float(bal)
```

```
            msg="amount is debited"
```

```
            tuplev=(bal,msg,(session.get('aid')))
```

```
            sql="""update Account set balance=%s,msg=%s where Accountid=%s""" ,tuplev)
```

```
            conn.execute(*sql)
```

```
            tuplev=((session.get('aid')),cusid,bal,msg)
```

```
            sql="""insert into personalaccount(aid,cid,abalance,msg)VALUES(%s,%s,%s,%s)""" ,tuplev)
```

```
            conn.execute(*sql)
```

```
            sql="""select Accountid,cusid,balance,accounttype from Account where Accountid=%s""" ,
            (session.get('aid'))
```

```
            conn.execute(*sql)
```

```

        aid,cusid,bal,at=conn.fetchone()

        print(aid)

        return
    render_template('dash.html',welcome=session.get('username'),val=True,vals=True,aid=aid,cusid
    =cusid,bal=bal,at=at)

    except:

        error="process couldnt b done"

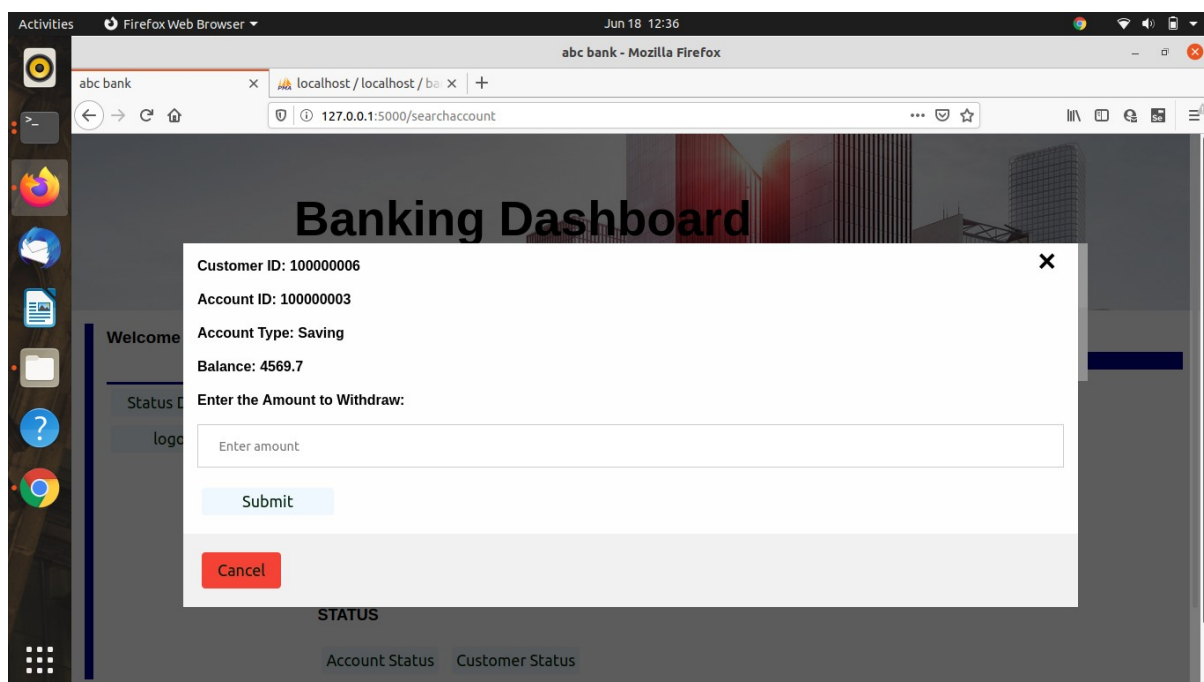
        return
    render_template('dash.html',welcome=session.get('username'),val=True,vals=True,aid=aid,cusid
    =cusid,bal=bal,at=at,error=error)

    print("error")

```

WITHDRAW MONEY

The bank employee can withdraw money for the customer by providing the account ID provided for the customer.



BODY:

```

@app.route('/withdrawmoney',methods=['POST','GET'])
def withdrawmoney():
    if request.method == 'POST':
        amt=request.form['amt']
        try:
            sql=("""select Accountid,cusid,balance,accounttype from Account where Accountid=%s""",
            (session.get('aid')))

```

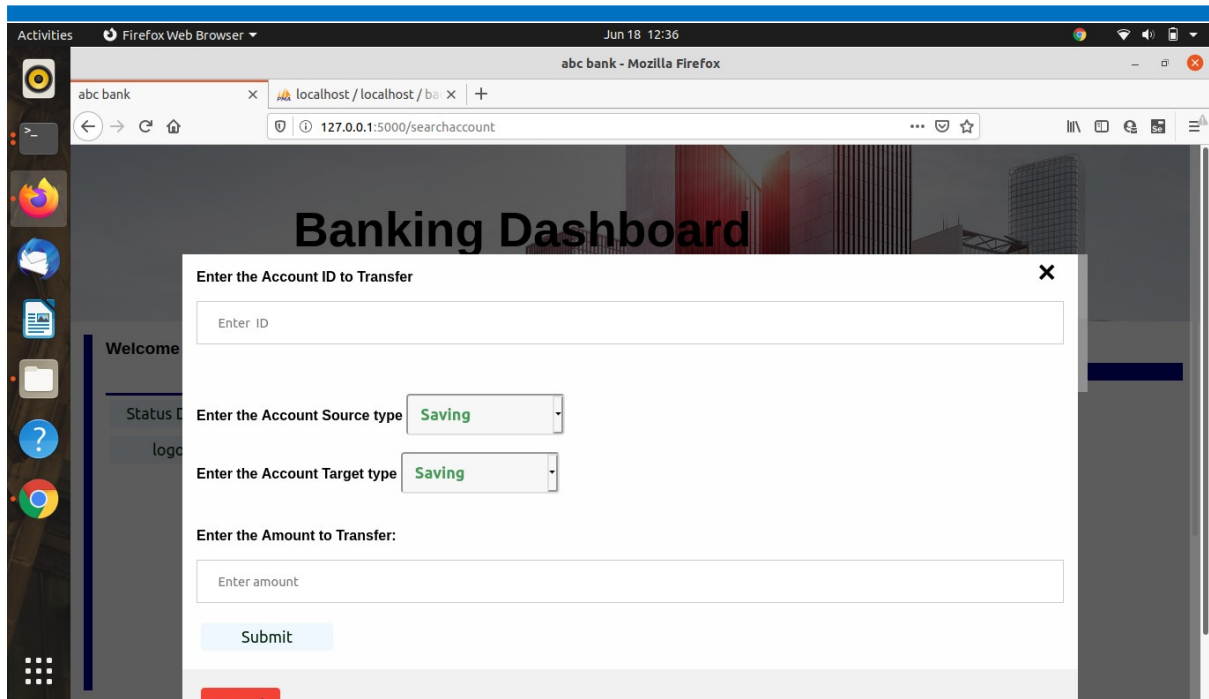
```

    conn.execute(*sql)
    aid,cusid,bal,at=conn.fetchone()
    bal=float(bal)-float(amt)
    msg="amount is credited"
    tuplev=(bal,msg,(session.get('aid')))
    sql=("""update Account set balance=%s,msg=%s where Accountid=%s""",tuplev)
    conn.execute(*sql)
    tuplev=((session.get('aid')),cusid,bal,msg)
    sql=("""insert into personalaccount(aid,cid,abalance,msg)VALUES(%s,%s,%s,%s)""",tuplev)
    conn.execute(*sql)
    sql=("""select Accountid,cusid,balance,accounttype from Account where Accountid=%s""",
(session.get('aid')))
    conn.execute(*sql)
    aid,cusid,bal,at=conn.fetchone()
    print(aid)
    return
render_template('dash.html',welcome=session.get('username'),val=True,vals=True,aid=aid,cusid
=cusid,bal=bal,at=at)
except:
    error="process couldnt b done"
    return
render_template('dash.html',welcome=session.get('username'),val=True,vals=True,vals=True)
print("error")

```

TRANSFER MONEY

The bank employee can transfer money from one account to another by entering both the sender account ID and the receiver's account ID.



BODY:

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

```
def transfermoney():
```

```
    if request.method == 'POST':
```

```
        aidt=request.form['cid']
```

```
        amt=request.form['amt']
```

```
    try:
```

```
        sql="""select Accountid,cusid,balance,accounttype from Account where Accountid=%s""",
        (session.get('aid'))
```

```
        conn.execute(*sql)
```

```
        aid,cusid,bal,at=conn.fetchone()
```

```
        print(bal)
```

```
        bal=float(bal)-float(amt)
```

```
        print(bal)
```

```
        msg="amount is credited"
```

```
        tuplev=(bal,msg,(session.get('aid')))
```

```
        sql="""update Account set balance=%s,msg=%s where Accountid=%s""",tuplev)
```

```
        conn.execute(*sql)
```

```
        tuplev=((session.get('aid')),cusid,bal,msg)
```

```
        sql="""insert into personalaccount(aid,cid,abalance,msg)VALUES(%s,%s,%s,%s)""",tuplev)
```

```
        conn.execute(*sql)
```

```

        sql="""select Accountid,cusid,balance,accounttype from Account where Accountid=
%s""" ,aidt)

        conn.execute(*sql)

        aid,cusid,bal,at=conn.fetchone()

        print(bal)

        bal=float(bal)+float(amt)

        msg="amount is debited"

        print(aidt)

        tuplev=(bal,msg,aidt)

        sql="""update Account set balance=%s,msg=%s where Accountid=%s""" ,tuplev)

        conn.execute(*sql)

        print(msg,aidt)

        tuplev=((session.get('aid')),cusid,bal,msg)

        sql="""insert into personalaccount(aid,cid,abalance,msg)VALUES(%s,%s,%s,%s)""" ,tuplev)

        conn.execute(*sql)

        sql="""select Accountid,cusid,balance,accounttype from Account where Accountid=%s""" ,
(session.get('aid'))

        conn.execute(*sql)

        aid,cusid,bal,at=conn.fetchone()

        print(aid)

        return
render_template('dash.html',welcome=session.get('username'),val=True,vals=True,aid=aid,cusid
=cusid,bal=bal,at=at)

except:

    error="process couldnt b done"

    return
render_template('dash.html',welcome=session.get('username'),val=True,vals=True,vals=True)

    print("error")

```

ACCOUNT STATEMENT

The bank employee can provide the account statement of the customer's account activity by clicking on 'view'. All the transactions of the customer's account can be viewed here.

Activities Firefox Web Browser Jun 18 12:37 abc bank - Mozilla Firefox

abc bank localhost / localhost / b... 127.0.0.1:5000/accountstatement

Banking Dashboard

ABC Bank servies

Transcation ID	Amount	Description	Date
20	4578.0	account created succesfully	2020-06-17
22	4569.7	amount is credited	2020-06-17

Export PDF

Cancel

Welcome

Status D

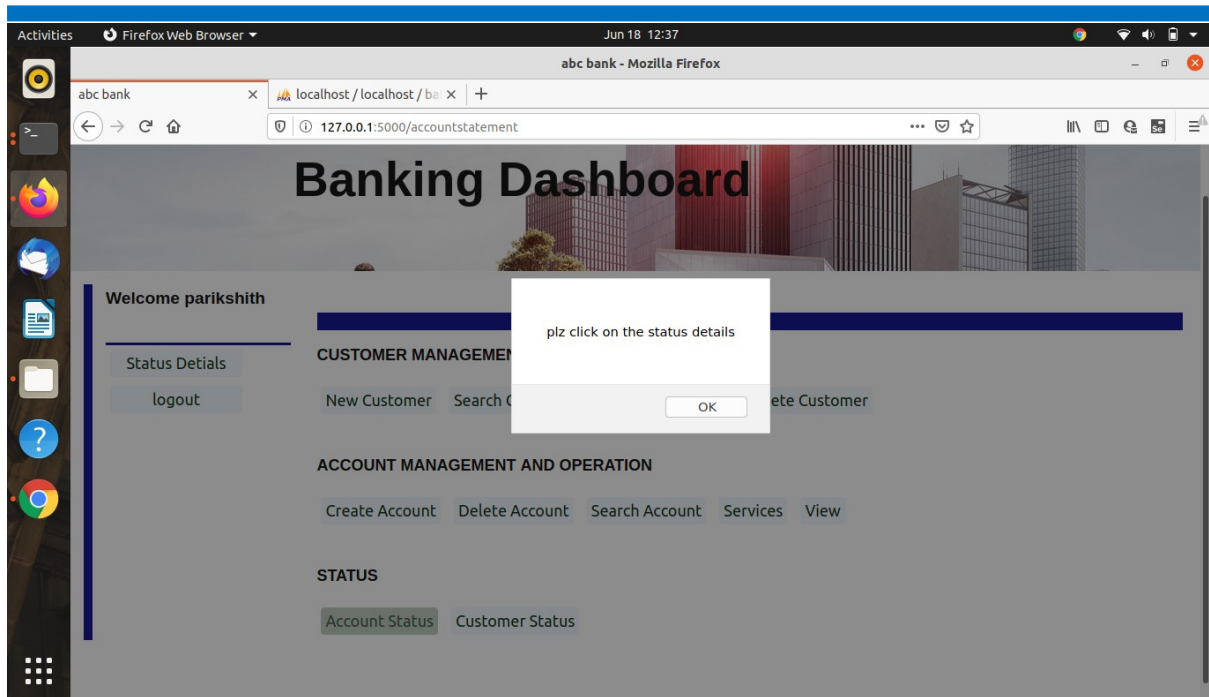
logo

ACCOUNT MANAGEMENT AND OPERATION

Create Account Delete Account Search Account Services View

STATUS

Account Status Customer Status

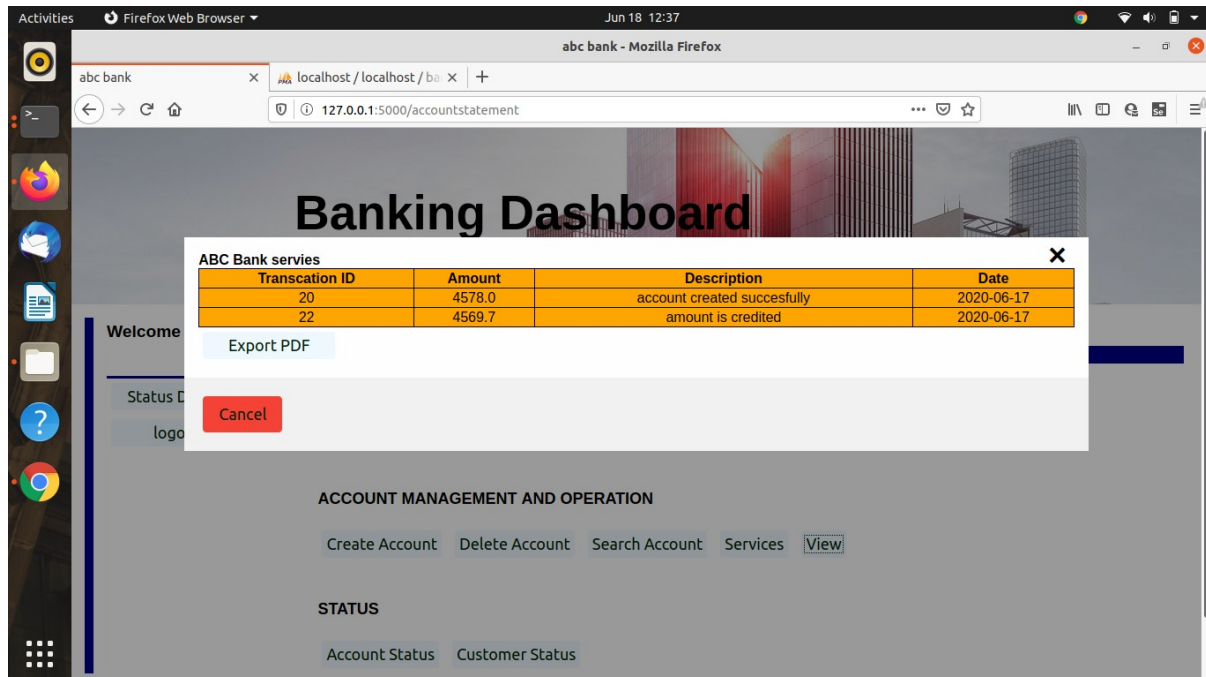


BODY:

```
@app.route('/accountstatement',methods=['POST','GET'])
def accountstatement():
    if request.method == 'POST':
        sdate=request.form['startdate']
        edate=request.form['lastdate']
        print(sdate)
        print(edate)
        try:
            tuple1=((session.get('aid')),sdate,edate)
            sql=("""select transid,abalance,msg,datea from personalaccount where aid=%s and datea
BETWEEN %s and %s""",tuple1)
            conn.execute(*sql)
            data=conn.fetchall()
            return
        render_template('dash.html',welcome=session.get('username'),val=True,data=data,vals=True)
    except:
        error="process couldnt b done"
        return
    render_template('dash.html',welcome=session.get('username'),val=True,data="none",er=error,va
a=True,vals=True)
    print("error")
```

ACCOUNT STATEMENT WITH PDF DOWNLOAD

The bank employee can also provide the customer with a PDF document of the account statement. This document includes all the transactions done to the customer's account and can be downloaded with the 'view' option.



BODY:

```
$('#cmd').click(function () {
    var table = tableToJson($('#htmlexportPDF').get(0))
    var doc = new jsPDF('p','pt', 'a3', true);
    doc.cellInitialize();
    $.each(table, function (i, row){
        console.debug(row);
        $.each(row, function (j, cell){
            doc.cell(10, 50,200, 50, cell, i); // 2nd parameter=top margin,1st=left margin 3rd=row
            cell width 4th=Row height
        })
    })
    doc.save('sample-file.pdf');
});

function tableToJson(table) {
    var data = [];
    var headers = [];
    for (var i=0; i<table.rows[0].cells.length; i++) {
```

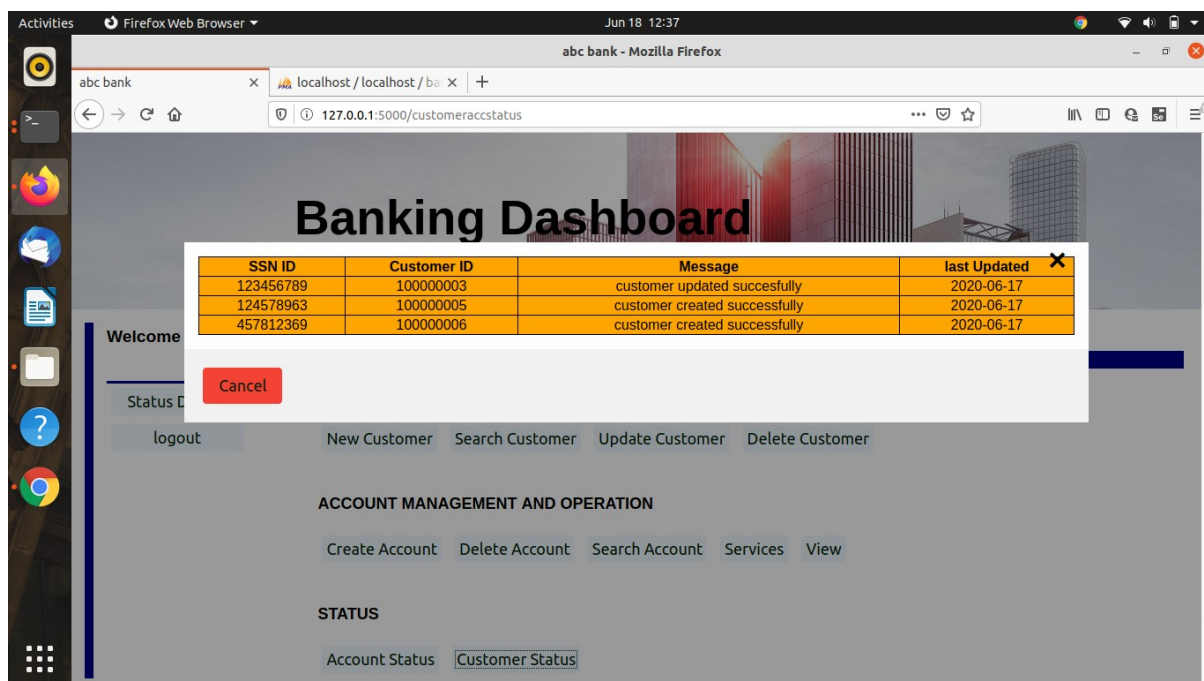
```

        headers[i] = table.rows[0].cells[i].innerHTML.toLowerCase().replace(/ /gi,"");
    }
    for (var i=0; i<table.rows.length; i++) {
        var tableRow = table.rows[i];
        var rowData = {};
        for (var j=0; j<tableRow.cells.length; j++) {
            rowData[ headers[j] ] = tableRow.cells[j].innerHTML;
        }
        data.push(rowData);
    }
    return data;
}
});

```

CUSTOMER ACCOUNT STATUS

The bank employee can provide the details about the status of a customer account to the customer if asked for. The status of the account can be checked by clicking on the 'Status' button.



BODY:

```

@app.route('/customeraccstatus',methods=['POST','GET'])
def customerstatus():
    try:
        sql=("select SSNID,Customerid,message,datec from Customer")

```

```

conn.execute(sql)
cdata=conn.fetchall()
sql=("""select Accountid,cusid,balance,Accounttype,msg,cdate from Account""")
conn.execute(sql)
adata=conn.fetchall()

return
render_template('dash.html',welcome=session.get('username'),val=True,cdata=cdata,adata=adata,
a,vals=True)

except:

    error="process couldnt b done"

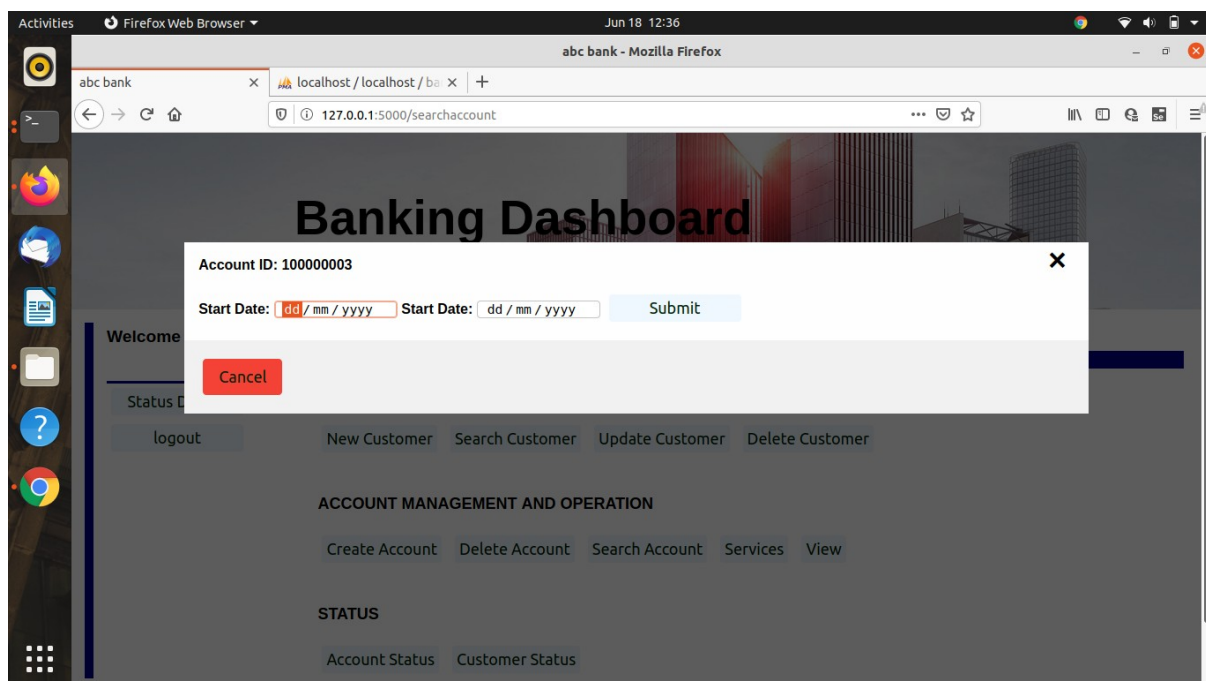
    return
render_template('dash.html',welcome=session.get('username'),val=True,data="none",er=error,
a=True,vals=True)

print("error")

```

SEARCH ACCOUNT

The bank employee can also search for a customer's account that is present in the website by clicking on the 'Search Account' option and providing the account ID provided to the customer.



BODY:

```

@app.route('/searchaccount',methods=['POST','GET'])
def searchaccount():
    if request.method == 'POST':

```

```

aid=request.form['aid']
try:
    sql=("""select Accountid,cusid from Account where Accountid=%s """,(aid))
    try:
        conn.execute(*sql)
        caid,cssn=conn.fetchone()
        if str(caid)!=aid:
            error="process couldnt b done due incorrect values"
            print(error)
            return
    render_template('dash.html',welcome=session.get('username'),val=True,er=error,vals=True)
    except:
        error="process couldnt b done due incorrect value"
        print(error)
        return
    render_template('dash.html',welcome=session.get('username'),val=True,er=error,vals=True)

    session['aid']=aid
    print(session.get('aid'))
    sql=("""select Accountid,cusid,balance,accounttype from Account where Accountid=%s""",
(aid))
    conn.execute(*sql)
    aid,cusid,bal,at=conn.fetchone()

    return
    render_template('dash.html',vals=True,welcome=session.get('username'),val=True,aid=aid,cid=c
usid,bal=bal,at=at)
    except:
        error="process couldnt b done"
        return
    render_template('dash.html',welcome=session.get('username'),val=True,er=error,vals=True)
    print("error")

```