

IMPLEMENTING WEB APPLICATION

Create UI to interact with application

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Project Name	Personal Expense Tracker Application

DATABASE :

The screenshot shows the IBM Cloud console interface. At the top, there's a navigation bar with 'IBM Cloud', a search bar, and links to 'Catalog', 'Manage', and a user profile. Below this, the 'Resource list' page is displayed. It features a table with columns: Name, Group, Location, Product, Status, and Tags. The table lists various resource categories like Storage, AI / Machine Learning, Analytics, Blockchain, Databases (1), Developer tools, Logging and monitoring, Migration, Integration, Internet of Things, Security, and Mobile. Under the 'Databases' category, a single instance 'Db2-9b' is listed with a status of 'Active'. A 'Create resource' button is visible in the top right corner.

TABLE AND ITS DETAILS :

The screenshot shows the IBM Db2 on Cloud console. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected. On the left, a search bar for 'Find schemas or tables' is present. The main area displays a table list with columns 'Name', 'Schema', and 'Properties'. A table named 'CUSTOMERS' is listed under the 'HHL91628' schema. To the right, the 'Table definition' panel for the 'CUSTOMERS' table is shown. It lists the following columns: NAME, USERNAME, EMAIL, MOBILENO, and PASSWORD, all of type VARCHAR with a length of 255 and a scale of 0. A 'View data' button is located at the bottom of the table definition panel.

TABLE DATA:

IBM Db2 on Cloud

SQL

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

HHL91628.CUSTOMERS

Back

Export to CSV

NAME	USERNAME	EMAIL	MOBILENO	PASSWORD
Jhon	Jhon	Jhon@gmail.com	9857648672	Jhon@32424
Johnff	Johnff	hello	095026	cgtj
Johnff	Johnff	hello@sgaasdf	095026	sdafsf
Johnff	Johnff	hello@sga	095026	sdfa
Johnfffasd	Johnfffasd	hello@sgaasdfsdfg	095026	sdfg
Prem Kashyap	Prem	iamprem@gmail.com	8789806965	Prem@3456
Prem Kashyap	Prem	nmani3008@gmail.com	0985764867	1234
Wick	Wick	wick2@gmail.com	0985764867	wick@123
ghfsd	ghfsd	dfigs	dsgfd	dsgf

CODE TO CONNECT DATABASE :

app.py:

```
import ibm_db
from flask import Flask, flash, redirect, render_template, request, url_for

app = Flask(__name__)
app.debug=True

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=hhl91628;PWD=vM4IAZjxo4LsBPoJ","","")

@app.route("/")
def home():
    return render_template("home.html")

@app.route("/signup", methods=('GET', 'POST'))
def signup():
    if request.method == 'POST':
        name = request.form['fname']
        username =name.split(" ")[0]
        email = request.form['femail']
        mobile = request.form['mobile']
        password = request.form['password']

        sql = "SELECT * FROM customers WHERE username =? and email=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,email)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
```

```

    if account:
        return render_template('registered.html')
    else:
        insert_sql = "INSERT INTO customers VALUES (?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prepare_stmt, 1, name)
        ibm_db.bind_param(prepare_stmt, 2, username)
        ibm_db.bind_param(prepare_stmt, 3, email)
        ibm_db.bind_param(prepare_stmt, 4, mobile)
        ibm_db.bind_param(prepare_stmt, 5, password)
        ibm_db.execute(prepare_stmt)
        return render_template('success.html')

return render_template('signup.html')

@app.route("/about")
def about():
    return render_template('about.html')

@app.route("/signin", methods=('GET', 'POST'))
def signin():
    if request.method == 'POST':
        femail = request.form['femail']
        fpassword = request.form['password']

        sql = "SELECT * FROM customers WHERE email =? and password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, femail)
        ibm_db.bind_param(stmt, 2, fpassword)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)

        if account:
            return render_template('loginsuccess.html')
        else:
            return render_template('loginfailure.html')

    return render_template('signin.html')

if __name__ == '__main__':
    app.run()

```