crud application report

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# Problem Statement

create an app for multi-variable and multi- input data. Once entered the user can manipulate the data i.e. [create, read, update and delete].

# App.py

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

import sqlite3 as sql

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

@app.route("/")

@app.route("/index")

def index():

    con=sql.connect("db\_web.db")

    con.row\_factory=sql.Row

    cur=con.cursor()

    cur.execute("select \* from users")

    data=cur.fetchall()

    return render\_template("index.html",datas=data)

@app.route("/add\_user",methods=['POST','GET'])

def add\_user():

    if request.method=='POST':

        uname=request.form['uname']

        Block\_No=request.form['Block\_No']

        Description\_of\_work=request.form['Description\_of\_work']

        Carpenter=request.form['Carpenter']

        Helper=request.form['Helper']

        Fitter=request.form['Fitter']

        Mason=request.form['Mason']

        SUP=request.form['SUP']

        Chipper=request.form['Chipper']

        Grinder=request.form['Grinder']

        Rigger=request.form['Rigger']

        WelderGas\_Cutter=request.form['WelderGas\_Cutter']

        Unskilled=request.form['Unskilled']

        con=sql.connect("db\_web.db")

        cur=con.cursor()

        cur.execute("insert into users(UNAME,Block\_No,Description\_of\_work,Carpenter,Helper,Fitter,Mason,SUP,Chipper,Grinder,Rigger,WelderGas\_Cutter,Unskilled) values (?,?,?,?,?,?,?,?,?,?,?,?,?)",(uname,Block\_No,Description\_of\_work,Carpenter,Helper,Fitter,Mason,SUP,Chipper,Grinder,Rigger,WelderGas\_Cutter,Unskilled))

        con.commit()

        flash('User Added','success')

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

    return render\_template("add\_user.html")

@app.route("/edit\_user/<string:uid>",methods=['POST','GET'])

def edit\_user(uid):

    if request.method=='POST':

        uname=request.form['uname']

        Block\_No=request.form['Block\_No']

        Description\_of\_work=request.form['Description\_of\_work']

        Carpenter=request.form['Carpenter']

        Helper=request.form['Helper']

        Fitter=request.form['Fitter']

        Mason=request.form['Mason']

        SUP=request.form['SUP']

        Chipper=request.form['Chipper']

        Grinder=request.form['Grinder']

        Rigger=request.form['Rigger']

        WelderGas\_Cutter=request.form['Chipper']

        Unskilled=request.form['Chipper']

        con=sql.connect("db\_web.db")

        cur=con.cursor()

        cur.execute("update users set UNAME=?,Block\_No=?,Description\_of\_work=?,Carpenter=?,Helper=?,Fitter=?,Mason=?,SUP=?,Chipper=?,Grinder=?,Rigger=?,WelderGas\_Cutter=?,Unskilled=? where UID=?",(uname,Block\_No,Description\_of\_work,Carpenter,Helper,Fitter,Mason,SUP,Chipper,Grinder,Rigger,WelderGas\_Cutter,Unskilled,uid))

        con.commit()

        flash('User Updated','success')

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

    con=sql.connect("db\_web.db")

    con.row\_factory=sql.Row

    cur=con.cursor()

    cur.execute("select \* from users where UID=?",(uid,))

    data=cur.fetchone()

    return render\_template("edit\_user.html",datas=data)

@app.route("/delete\_user/<string:uid>",methods=['GET'])

def delete\_user(uid):

    con=sql.connect("db\_web.db")

    cur=con.cursor()

    cur.execute("delete from users where UID=?",(uid,))

    con.commit()

    flash('User Deleted','warning')

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

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

    app.secret\_key='admin123'

    app.run(debug=True)

# create.py

import sqlite3 as sql

#connect to SQLite

con = sql.connect('db\_web.db')

#Create a Connection

cur = con.cursor()

#Drop users table if already exsist.

cur.execute("DROP TABLE IF EXISTS users")

#Create users table  in db\_web database

sql ='''CREATE TABLE "users" (

    "UID" INTEGER PRIMARY KEY AUTOINCREMENT ,

    "UNAME" TEXT,

    "CONTACT"   TEXT

)'''

cur.execute(sql)

# cur.execute("alter table users add column ADDRESS TEXT;")

# cur.execute("ALTER TABLE users DROP COLUMN ADDRESS ;")

# cur.execute("ALTER TABLE users DROP COLUMN CONTACT  ;")

cur.execute("alter table users add column Block\_No TEXT;")

cur.execute("alter table users add column Description\_of\_work TEXT;")

cur.execute("alter table users add column Carpenter TEXT;")

cur.execute("alter table users add column Helper TEXT;")

cur.execute("alter table users add column Fitter TEXT;")

cur.execute("alter table users add column Mason TEXT;")

cur.execute("alter table users add column SUP TEXT;")

cur.execute("alter table users add column Chipper TEXT;")

cur.execute("alter table users add column Grinder TEXT;")

cur.execute("alter table users add column Rigger TEXT;")

cur.execute("alter table users add column WelderGas\_Cutter TEXT;")

cur.execute("alter table users add column Unskilled TEXT;")

#commit changes

con.commit()

#close the connection

con.close()

# add\_user.html

{% extends 'layout.html' %}

{% block body %}

  <div class='row'>

    <div class='col-5 mx-auto'>

      <h3>Add user</h3><hr>

      <form method='post' action='{{url\_for("add\_user")}}'>

        <div class='form-group'>

          <label>User Name</label>

          <input type='text' name='uname' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Block\_No</label>

          <input type='text' name='Block\_No' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Description\_of\_work</label>

          <input type='text' name='Description\_of\_work' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Carpenter</label>

          <input type='text' name='Carpenter' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Helper</label>

          <input type='text' name='Helper' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Fitter</label>

          <input type='text' name='Fitter' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Mason</label>

          <input type='text' name='Mason' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>SUP</label>

          <input type='text' name='SUP' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Chipper</label>

          <input type='text' name='Chipper' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Grinder</label>

          <input type='text' name='Grinder' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Rigger</label>

          <input type='text' name='Rigger' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>WelderGas\_Cutter</label>

          <input type='text' name='WelderGas\_Cutter' required class='form-control'>

        </div>

        <div class='form-group'>

          <label>Unskilled</label>

          <input type='text' name='Unskilled' required class='form-control'>

        </div>

        <input type='submit' value='Submit' class='btn btn-primary'>

      </form>

    </div>

  </div>

{% endblock %}

# Edit\_user.html

{% extends 'layout.html' %}

{% block body %}

  <div class='row'>

    <div class='col-5 mx-auto'>

      <h3>Edit user</h3><hr>

      <form method='post' action='{{url\_for("edit\_user",uid=datas.UID)}}'>

        <div class='form-group'>

          <label>User Name</label>

          <input type='text' name='uname' required class='form-control' value='{{datas.UNAME}}'>

        </div>

        <div class='form-group'>

          <label>Block\_No</label>

          <input type='text' name='Block\_No' required class='form-control' value='{{datas.Block\_No}}'>

        </div>

        <div class='form-group'>

          <label>Description\_of\_work</label>

          <input type='text' name='Description\_of\_work' required class='form-control' value='{{datas.Description\_of\_work}}'>

        </div>

        <div class='form-group'>

          <label>Carpenter</label>

          <input type='text' name='Carpenter' required class='form-control' value='{{datas.Carpenter}}'>

        </div>

        <div class='form-group'>

          <label>Helper</label>

          <input type='text' name='Helper' required class='form-control' value='{{datas.Helper}}'>

        </div>

        <div class='form-group'>

          <label>Fitter</label>

          <input type='text' name='Fitter' required class='form-control' value='{{datas.Fitter}}'>

        </div>

        <div class='form-group'>

          <label>Mason</label>

          <input type='text' name='Mason' required class='form-control' value='{{datas.Mason}}'>

        </div>

        <div class='form-group'>

          <label>SUP</label>

          <input type='text' name='SUP' required class='form-control' value='{{datas.SUP}}'>

        </div>

        <div class='form-group'>

          <label>Chipper</label>

          <input type='text' name='Chipper' required class='form-control' value='{{datas.Chipper}}'>

        </div>

        <div class='form-group'>

          <label>Grinder</label>

          <input type='text' name='Grinder' required class='form-control' value='{{datas.Grinder}}'>

        </div>

        <div class='form-group'>

          <label>Rigger</label>

          <input type='text' name='Rigger' required class='form-control' value='{{datas.Rigger}}'>

        </div>

        <div class='form-group'>

          <label>WelderGas\_Cutter</label>

          <input type='text' name='WelderGas\_Cutter' required class='form-control' value='{{datas.WelderGas\_Cutter}}'>

        </div>

        <div class='form-group'>

          <label>Unskilled</label>

          <input type='text' name='Unskilled' required class='form-control' value='{{datas.Unskilled}}'>

        </div>

        <input type='submit' value='Submit' class='btn btn-primary'>

      </form>

    </div>

  </div>

{% endblock %}

# Index.html

{% extends 'layout.html' %} {% block body %}

<h3 class="text-center text-muted mb-3">Flask - SQLite CRUD Application</h3>

<p class="text-right">

  <a href='{{url\_for("add\_user")}}' class="btn btn-success">+Add User</a>

</p>

<table class="table table-bordered">

  <thead>

    <th>SNo</th>

    <th>Name</th>

    <th>Block\_No</th>

    <th>Description\_of\_work</th>

    <th>Carpenter</th>

    <th>Helper</th>

    <th>Fitter</th>

    <th>Mason</th>

    <th>SUP</th>

    <th>Chipper</th>

    <th>Grinder</th>

    <th>Rigger</th>

    <th>WelderGas\_Cutter</th>

    <th>Unskilled</th>

    <th>Edit</th>

    <th>Delete</th>

  </thead>

  <tbody>

    {% for row in datas %}

    <tr>

      <td>{{loop.index}}</td>

      <td>{{row.UNAME}}</td>

      <td>{{row.Block\_No}}</td>

      <td>{{row.Description\_of\_work}}</td>

      <td>{{row.Carpenter}}</td>

      <td>{{row.Helper}}</td>

      <td>{{row.Fitter}}</td>

      <td>{{row.Mason}}</td>

      <td>{{row.SUP}}</td>

      <td>{{row.Chipper}}</td>

      <td>{{row.Grinder}}</td>

      <td>{{row.Rigger}}</td>

      <td>{{row.WelderGas\_Cutter}}</td>

      <td>{{row.Unskilled}}</td>

      <td>

        <a href='{{url\_for("edit\_user",uid=row.UID)}}' class="btn btn-primary"

          >Edit</a

        >

      </td>

      <td>

        <a

          href='{{url\_for("delete\_user",uid=row.UID)}}'

          class="btn btn-danger"

          onclick='return confirm("Are You Sure")'

          >Delete</a

        >

      </td>

    </tr>

    {%endfor%}

  </tbody>

</table>

{% endblock %}

# Layout.html

<html>

  <head>

    <title>Flask - SQLite </title>

    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous"></script>

    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q" crossorigin="anonymous"></script>

    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js" integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl" crossorigin="anonymous"></script>

  </head>

  <body>

    <div class='container pt-3'>

      {% with messages=get\_flashed\_messages(with\_categories=true) %}

        {% if messages %}

          {% for category,message in messages %}

            <div class='alert alert-{{category}}'>{{message}}</div>

          {% endfor %}

        {% endif %}

      {% endwith %}

      {% block body %}

      {% endblock %}

    </div>

  </body>

</html>

# Output screenshots

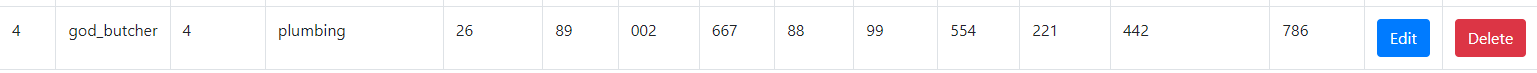
A picture containing calendar

Description automatically generated

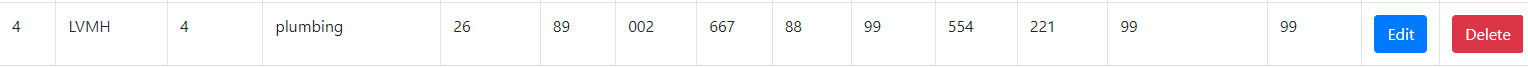
A picture containing calendar

Description automatically generated

Adding column from add user



Editing column 4 name



Deleting column 4

Calendar

Description automatically generated