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POSTLAB 9 | REKAYASA WEB PRAKTIK

Pertanyaan

- 1. Buatlah sebuah basis data dengan satu buah tabel yang terdiri dari 6 atribut (atribut ini nantinya menerima masukan bertipe number, text, radio, checkbox, dropdown/select-option dan textarea), pastikan nama basis data, nama tabel dan nama atribut diakhir 3 digit terakhit NIM/NPM anda!
- **2.** Buatlah sebuah program aplikasi berbasis web yang memiliki operasi create, read, update dan delete (gunakan 6 jenis masukan seperti number, text, radio, checkbox, dropdown/select-option dan textarea)!

Jawaban

1. Database

```
Command Prompt - mysql -u root
MariaDB [crud 383]> describe armaments 383;
                                     Null | Key |
 Field
                                                   Default
                                                             Extra
                    Type
  id 383
                                     NO
                                            PRI
                                                   NULL
                     int(11)
  name 383
                     varchar(50)
                                     NO
                                                   NULL
 rarity_383
                     varchar(25)
                                     NO
                                                   NULL
  affinity 383
                     varchar(150)
                                     NO
                                                   NULL
  type 383
                     varchar(25)
                                     NO
                                                   NULL
  description_383 |
                                     NO
                                                   NULL
6 rows in set (0.013 sec)
MariaDB [crud 383]>
```

2. Aplikasi

Source Codes

- app.py

```
from flask import Flask, redirect, render_template, request, url_for, flash, session
from model import Model

app = Flask(__name__)
app.config["SECRET_KEY"] = "123"
db = Model()

@app.route("/")
def index():
    item = db.read()
    return render_template("index.html", dItem = item)
```

```
@app.route("/add")
def add():
    return render_template("add.html")
@app.route("/add save", methods=["POST", "GET"])
def add save():
    if(request.method == "POST"):
        id = request.form["txtID"]
        name = request.form["txtName"]
        rarity = request.form["rarity"]
        affinity = ', '.join(request.form.getlist('affinity'))
        itype = request.form["itemType"]
        desc = request.form["txtDesc"]
        if(db.add(id, name, rarity, affinity, itype, desc)):
            flash("New Data have been Added")
        else:
            flash("Error detected, data can't be added!")
        return redirect(url for("index"))
    else:
        return redirect(url for("index"))
@app.route("/remove/<int:id>", methods=["GET", "POST"])
def remove(id):
    if(request.method == "GET"):
        if(db.remove(id)):
            flash("The Data have been Deleted")
        else:
            flash("Error detected, data can't be deleted!")
        return redirect(url for("index"))
@app.route("/edit/<int:id>", methods=["GET", "POST"])
def edit(id):
   session["edit"] = id
    getted = db.edit(id)
    return render template(
        "edit.html",
        pData = getted,
        oldID = id)
@app.route("/edit_save", methods=["POST"])
def edit_save():
    if(request.method == "POST"):
        id = request.form["txtID"]
        name = request.form["txtName"]
        rarity = request.form["rarity"]
        affinity = ', '.join(request.form.getlist('affinity'))
        itype = request.form["itemType"]
        desc = request.form["txtDesc"]
```

```
if(db.edit_save(id, name, rarity, affinity, itype, desc, session["edit"])):
        flash("The Data have been Edited")
    else:
        flash("Error detected, data can't be edited!")
    return redirect(url_for("index"))
else:
    return redirect(url_for("index"))

if __name__ == "__main__":
    app.run(debug=True)
```

model.py

```
import mysql.connector
class Model:
   def connect(self):
        return mysql.connector.connect(
            host = "localhost",
            user = "root",
            password = "",
            database = "crud_383")
   def read(self):
        con = Model.connect(self)
        cur = con.cursor()
        cur.execute("select * from armaments_383")
        return cur.fetchall()
    def add(self, id, name, rarity, affinity, itype, desc):
        con = Model.connect(self)
        cur = con.cursor()
        cur.execute("""insert into armaments_383(id_383, name_383,
                    rarity_383, affinity_383, type_383, description_383)
                    values(%s, %s, %s, %s, %s);""",
                    (id, name, rarity, affinity, itype, desc,))
        con.commit()
        return True
   def remove(self, id):
        con = Model.connect(self)
        cur = con.cursor()
        cur.execute("delete from armaments_383 where id_383=%s", (id,))
        con.commit()
        return True
```

head.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <title>Akihiko Dojo</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
  link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.cs
s" rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.m
in.js"></script>
  <script src="https://code.jquery.com/jquery-3.6.0.js"</pre>
  integrity="sha256-H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk="
crossorigin="anonymous"></script>
</head>
```

- index.html

```
<div class="p-3 bg-secondary text-white rounded">
       <h2>Armaments Data</h2>
       This is the data for our Weaponry or Armaments in Akihiko
Dojo
     </div>
    </div>
 </div>
  <div class="content-wrapper">
    <section class="content">
     <div class="container-fluid">
      <div class="row">
        <div class="col">
         <a href="/add" class="mt-2 mb-2 ms-2 btn btn-success"><span>+
Add</span></a>
         #
              Name
              Rarity
              Affinity
              Type
              Description
              Actions
            </thead>
           {% for data in dItem %}
              {{ data.0 }}
                {{ data.1 }}
                {{ data.2 }}
                {{ data.3 }}
                {{ data.4 }}
                {{ data.5 }}
                  <a href="/edit/{{ data[0] }}" title="Edit"</pre>
                  class="btn btn-warning">Edit</a>
                  <a href="/remove/{{ data[0] }}"</pre>
onclick="confirm('Are you sure?')"
                  class="btn btn-danger"
title="Delete">Delete</a>
                {% endfor %}
           </div>
```

- add.html

```
{% include 'head.html' %}
<body>
<div class="content-wrapper">
 <section class="content-header">
   <div class="container-fluid">
      <div class="p-3 bg-secondary text-white rounded">
        <h2>Armaments Data</h2>
        This is the data for our Weaponry or Armaments in Akihiko Dojo
      </div>
    </div>
</div>
<div class="content-wrapper">
<section class="content">
<div class="container-fluid">
<div class="row">
 <div class="col-md-12">
    <div class="card card-secondary">
      <div class="card-header">
        <h3 class="card-title">Add New Armaments</h3>
      <form role="form" action="/add_save" method="POST">
        <div class="card-body">
          <div class="row">
            <div class="col-sm-4">
              <div class="form-group">
                <label class="fs-5">ID</label>
                <input type="number" class="form-control"</pre>
                name="txtID" placeholder="Enter the ID" required>
              </div>
            </div>
            <div class="col-sm-8">
```

```
<div class="form-group">
      <label class="fs-5">Name</label>
      <input type="text" class="form-control"</pre>
      name="txtName" placeholder="Enter the Armaments name" required>
    </div>
  </div>
</div>
<div class="row pt-2 pb-2">
 <div class="form-group">
   <div class="row">
      <div class="col-sm-1">
        <label class="fs-5">Rarity</label>
        <div class="form-group pt-2 pb-2">
          <div class="form-check">
            <input class="form-check-input"</pre>
            type="radio" value="Lord" name="rarity">
            <label class="form-check-label">
              Lord
            </label>
          </div>
          <div class="form-check">
            <input class="form-check-input"</pre>
            type="radio" value="Hero" name="rarity">
            <label class="form-check-label">
              Hero
            </label>
          </div>
          <div class="form-check">
            <input class="form-check-input"</pre>
            type="radio" value="Adventurer" name="rarity">
            <label class="form-check-label">
              Numen
            </label>
          </div>
          <div class="form-check">
            <input class="form-check-input"</pre>
            type="radio" value="Commoner" name="rarity">
            <label class="form-check-label">
              Common
            </label>
          </div>
        </div>
      </div>
      <div class="col-sm-4">
        <label class="fs-5">Affinity</label>
        <div class="form-group pb-2 pt-2">
          <div class="row">
            <div class="col-sm-3">
```

```
<div class="form-check">
                <input class="form-check-input"</pre>
                type="checkbox" value="Arcane" name="affinity">
                <label class="form-check-label" >
                  Arcane
                </label>
              </div>
              <div class="form-check">
                <input class="form-check-input"</pre>
                type="checkbox" value="Faith" name="affinity">
                <label class="form-check-label" >
                  Faith
                </label>
              </div>
              <div class="form-check">
                <input class="form-check-input"</pre>
                type="checkbox" value="Intelligence" name="affinity">
                <label class="form-check-label" >
                  Intelligence
                </label>
              </div>
            </div>
            <div class="col-sm-3">
              <div class="form-check">
                <input class="form-check-input"</pre>
                type="checkbox" value="Strength" name="affinity">
                <label class="form-check-label" >
                  Strength
                </label>
              </div>
              <div class="form-check">
                <input class="form-check-input"</pre>
                type="checkbox" value="Dexterity" name="affinity">
                <label class="form-check-label" >
                  Dexterity
                </label>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
<div class="form-group">
 <label class="fs-5">Armaments Type</label>
 <select class="form-select" id="itemType" name="itemType">
   <option value="0">-- Select Armaments Type --</option>
```

```
<option value="Dagger">Dagger</option>
              <option value="Sword">Sword</option>
              <option value="Axe">Axe</option>
              <option value="Hammer">Hammer</option>
              <option value="Flail">Flail</option>
              <option value="Spear">Spear</option>
             <option value="Staff">Staff</option>
              <option value="Sacred Seal">Sacred Seal</option>
            </select>
         </div>
         <div class="form-group">
            <label class="fs-5">Description</label>
           <textarea class="form-control" name="txtDesc"</pre>
           placeholder="Enter the Description or Lore" rows="4" required></textarea>
          </div>
       </div>
       <div class="card-footer">
          <button type="submit" class="btn btn-success btn-block">Submit</button>
          <a href="/" class="btn btn-secondary"><span>Go Back</span></a>
       </div>
     </form>
   </div>
 </div>
</section>
</div>
</body>
</html>
```

- edit.html

```
{% include 'head.html' %}
<body>
<div class="content-wrapper">
<section class="content-header">
<div class="container-fluid">
 <div class="p-3 bg-secondary text-white rounded">
   <h2>Armaments Data</h2>
    This is the data for our Weaponry or Armaments in Akihiko Dojo
 </div>
</div>
</div>
{% for data in pData %}
<div class="content-wrapper">
<section class="content">
 <div class="container-fluid">
    <div class="row">
      <div class="col-md-12">
```

```
<div class="card card-secondary">
  <div class="card-header">
    <h3 class="card-title">Edit Armaments</h3>
  </div>
  <form role="form" action="/edit save" method="POST">
    <div class="card-body">
      <div class="row">
        <div class="col-sm-4">
          <div class="form-group">
            <label class="fs-5">ID</label>
            <input type="hidden" value="{{ data.0 }}" name="oldID" >
            <input type="number" class="form-control"</pre>
            name="txtID" placeholder="Enter the ID"
            value="{{ data.0 }}" required>
          </div>
        </div>
        <div class="col-sm-8">
          <div class="form-group">
            <label class="fs-5">Name</label>
            <input type="text" class="form-control"</pre>
            name="txtName" value="{{ data.1 }}"
            placeholder="Enter the Armaments name" required>
          </div>
        </div>
      </div>
      <div class="row pt-2 pb-2">
        <div class="form-group">
          <div class="row">
            <div class="col-sm-1">
              <label class="fs-5">Rarity</label>
              <div class="form-group pt-2 pb-2">
                <div class="form-check">
                  <input class="form-check-input" type="radio"</pre>
                  value="Lord" name="rarity"
                  {{ "checked" if data.2=="Lord" }}>
                  <label class="form-check-label">
                    Lord
                  </label>
                </div>
                <div class="form-check">
                  <input class="form-check-input" type="radio"</pre>
                  value="Hero" name="rarity"
                  {{ "checked" if data.2=="Hero" }}>
                  <label class="form-check-label">
                    Hero
                  </label>
                </div>
                <div class="form-check">
```

```
<input class="form-check-input" type="radio"</pre>
      value="Adventurer" name="rarity"
      {{ "checked" if data.2=="Adventurer" }}>
      <label class="form-check-label">
        Numen
      </label>
    </div>
    <div class="form-check">
      <input class="form-check-input" type="radio"</pre>
      value="Commoner" name="rarity"
      {{ "checked" if data.2=="Commoner" }}>
      <label class="form-check-label">
        Common
      </label>
    </div>
  </div>
</div>
<div class="col-sm-4">
  <label class="fs-5">Affinity</label>
  <div class="form-group pb-2 pt-2">
    <div class="row">
      <div class="col-sm-3">
        <div class="form-check">
          <input class="form-check-input" type="checkbox"</pre>
          value="Arcane" name="affinity"
          {{ "checked" if "Arcane" in data.3 }}>
          <label class="form-check-label" >
            Arcane
          </label>
        </div>
        <div class="form-check">
          <input class="form-check-input" type="checkbox"</pre>
          value="Faith" name="affinity"
          {{ "checked" if "Faith" in data.3 }}>
          <label class="form-check-label" >
            Faith
          </label>
        </div>
        <div class="form-check">
          <input class="form-check-input" type="checkbox"</pre>
          value="Intelligence" name="affinity"
          {{ "checked" if "Intelligence" in data.3 }}>
          <label class="form-check-label" >
            Intelligence
          </label>
        </div>
      </div>
      <div class="col-sm-3">
```

```
<div class="form-check">
                 <input class="form-check-input" type="checkbox"</pre>
                 value="Strength" name="affinity"
                 {{ "checked" if "Strength" in data.3 }}>
                 <label class="form-check-label" >
                   Strength
                 </label>
              </div>
               <div class="form-check">
                 <input class="form-check-input" type="checkbox"</pre>
                 value="Dexterity" name="affinity"
                 {{ "checked" if "Dexterity" in data.3 }}>
                 <label class="form-check-label" >
                   Dexterity
                 </label>
              </div>
            </div>
          </div>
        </div>
      </div>
  </div>
</div>
<div class="form-group">
  <label class="fs-5">Armaments Type</label>
  <select class="form-select" id="itemType" name="itemType">
    <option value="0">-- Select Armaments Type --</option>
    <option value="Dagger"</pre>
    {{ "selected" if data.4=="Dagger" }}>Dagger</option>
    <option value="Sword"</pre>
    {{ "selected" if data.4=="Sword" }}>Sword</option>
    <option value="Axe"</pre>
    {{ "selected" if data.4=="Axe" }}>Axe</option>
    <option value="Hammer"</pre>
    {{ "selected" if data.4=="Hammer" }}>Hammer</option>
    <option value="Flail"</pre>
    {{ "selected" if data.4=="Flail" }}>Flail</option>
    <option value="Spear"</pre>
    {{ "selected" if data.4=="Spear" }}>Spear</option>
    <option value="Staff"</pre>
    {{ "selected" if data.4=="Staff" }}>Staff</option>
    <option value="Sacred Seal"</pre>
    {{ "selected" if data.4=="Sacred Seal" }}>Sacred Seal</option>
  </select>
</div>
<div class="form-group">
  <label class="fs-5">Description</label>
  <textarea class="form-control" name="txtDesc"</pre>
```

```
placeholder="Enter the Description or Lore" rows="4"
                required>{{ data.5 }}</textarea>
              </div>
            </div>
            <div class="card-footer">
              <button type="submit" class="btn btn-success btn-block">Submit</button>
              <a href="/" class="btn btn-secondary"><span>Go Back</span></a>
            </div>
          </form>
        </div>
   </div>
</section>
</div>
{% endfor %}
</body>
</html>
```

Screenshot











