

Assignment Week 4 – JavaScript & Version Control

Soal Homework

Buatlah 1 buah halaman yang berisi form dan tabel.

Form dan tabel terpisah menjadi 2 buah tab dengan nama tab Registrasi dan tab List Pendaftar.

Form memiliki isian:

- Nama minimal 10 karakter
- Umur minimal 25 tahun
- Uang saku minimal 100 ribu dan maksimal 1 juta

Setiap melakukan submit akan dicek berdasarkan kriteria tersebut, data tidak akan bisa tersimpan jika kriteria masih salah.

Pada tab List pendaftar akan berisi tabel yang berisi pendaftar dan resume dibawahnya, isi resume seperti berikut Rata rata pendaftar memiliki uang saku sebesar [nilai rata rata uang saku] dengan rata rata umur [nilai rata rata umur]

Catatan :

- Imajinasikan dan coba terapkan salah satu konsep OOP dan Asynchronous dalam menyelesaikan masalah tersebut
- Push ke REPO dan upload link REPO, tolong repo dalam status public
- Gunakan framework CSS untuk membuat tampilan lebih menarik

Code HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registrasi dan List Pendaftar</title>
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
4bw+/aepP/YC94hEpVNVgiZdgIC5+VKNBQNGCheKRQN+PtmoHDEXuppvnDJzQIu9"
crossorigin="anonymous">
  <link href="style.css" rel="stylesheet">
</head>
<body>
  <div class="container mt-5">
    <ul class="nav nav-tabs" id="myTabs" role="tablist">
      <li class="nav-item" role="presentation">
        <a class="nav-link active" id="registrasi-tab" data-
toggle="tab" href="#registrasi" role="tab" aria-controls="registrasi" aria-
selected="true">Registrasi</a>
      </li>
      <li class="nav-item" role="presentation">
        <a class="nav-link" id="list-tab" data-toggle="tab"
href="#list" role="tab" aria-controls="list" aria-selected="false">List
Pendaftar</a>
      </li>
    </ul>
    <div class="tab-content" id="myTabContent">
      <div class="tab-pane fade show active" id="registrasi"
role="tabpanel" aria-labelledby="registrasi-tab">
        <!-- Form Registrasi -->
        <form id="registrasiForm">
          <div class="form-group mt-1">
            <label for="nama">Nama</label>
            <input type="text" class="form-control" id="nama"
name="nama" required>
          </div>
          <div class="form-group mt-1">
            <label for="umur">Umur</label>
            <input type="number" class="form-control" id="umur"
name="umur" required>
          </div>
          <div class="form-group mt-1">
            <label for="uang">Uang Sangu</label>
            <input type="number" class="form-control" id="uang"
name="uang" required>
          </div>
        </form>
      </div>
    </div>
  </div>
</body>
</html>
```

```

        <button type="submit" class="btn submitbtn mt-3">Submit</button>
    </form>
</div>
<div class="tab-pane fade" id="list" role="tabpanel" aria-labelledby="list-tab">
    <!-- Tabel List Pendaftar -->
    <table class="table">
        <thead>
            <tr>
                <th>Nama</th>
                <th>Umur</th>
                <th>Uang Sangu</th>
            </tr>
        </thead>
        <tbody id="pendaftarList">
            <!-- Data pendaftar akan ditampilkan di sini -->
        </tbody>
    </table>
    <div id="resumePendaftar" class="text-center"></div>
</div>
</div>
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384-
q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js"
integrity="sha384-
U02eT0CpHqdSjQ6hJty5KVphtPhzWj9W01clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js"
integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/nJGzIxFDs4x0xIM+B07jRM"
crossorigin="anonymous"></script>
<script src="script.js"></script>
</body>
</html>

```

Code CSS:

```

body {
    background-color: #202020;
    color: #fff
}

```

```
.datapenting {
    color:#b790ff
}

/*buttons*/
.submitbtn {
    margin-top: 10rem;
    background-color: #6f42c1;
    color: #fff;
}

.submitbtn:hover {
    background-color: #fff;
    color: #6f42c1;
}

/*nav-tabs*/
.nav-item a{
    color: #fff;
}

.nav-tabs{
    border-color: #6f42c1;
}

.nav-item .nav-link.active{
    background-color: #6f42c1;
    border-color: #6f42c1;
    color:#fff
}

.nav-item:hover a:hover{
    color: #b790ff;
    border-color: #6f42c1;
}

.nav-item:hover a.active:hover{
    color: #fff;
}

/*forms*/
.form-control {
    background-color: #353535;
    border-color:#353535;
    color:#fff;
    margin-top: 5px;
}
```

```

.form-control:focus {
    background-color: #353535;
    border-color: #6f42c1;
    box-shadow: 1px 1px 1px #6e42c149 inset, 0px 0px 8px #6e42c1;
    color: #fff;
}

/*table*/
table th{
    background-color: #202020 !important;
    color: #fff !important;
    border-color: #6e42c1;
}
table td{
    background-color: #202020 !important;
    color: #fff !important;
    border-color: #6e42c1;
}

```

Code JavaScript:

```

// Konstruktor untuk objek Pendaftar
function Pendaftar(nama, umur, uang) {
    this.nama = nama;
    this.umur = umur;
    this.uang = uang;
}

// Konstruktor untuk objek PendaftarList
function PendaftarList() {
    this.pendaftarData = [];

    this.addPendaftar = function (pendaftar) {
        this.pendaftarData.push(pendaftar);
    };

    this.displayPendaftar = function () {
        const pendaftarList = document.getElementById('pendaftarList');
        const resumePendaftar = document.getElementById('resumePendaftar');

        // Hapus data sebelumnya
        pendaftarList.innerHTML = '';
        resumePendaftar.textContent = '';

        // Tampilkan data pendaftar
        this.pendaftarData.forEach((data) => {

```

```

        const row = document.createElement('tr');
        row.innerHTML = `
            <td>${data.nama}</td>
            <td>${data.umur}</td>
            <td>${data.uang}</td>
        `;
        pendaftarList.appendChild(row);
    });

    // Tampilkan resume rata-rata pendaftar
    resumePendaftar.innerHTML = `<p>Rata-rata pendaftar memiliki uang
sangu sebesar <span
class="datapenting">${this.calculateAverageUangSangu()}</span> dengan rata-
rata umur <span
class="datapenting">${this.calculateAverageUmur()}</span></p>`;
    };

    this.calculateAverageUangSangu = function () {
        const totalUangSangu = this.pendaftarData.reduce((sum, data) => sum +
data.uang, 0);
        return this.pendaftarData.length > 0 ? (totalUangSangu /
this.pendaftarData.length).toFixed(2) : 0;
    };

    this.calculateAverageUmur = function () {
        const totalUmur = this.pendaftarData.reduce((sum, data) => sum +
data.umur, 0);
        return this.pendaftarData.length > 0 ? (totalUmur /
this.pendaftarData.length).toFixed(2) : 0;
    };
}

// Handle submit form
document.getElementById('registrasiForm').addEventListener('submit', function
(e) {
    e.preventDefault();

    // Validasi form
    const nama = document.getElementById('nama').value;
    const umur = parseInt(document.getElementById('umur').value);
    const uang = parseInt(document.getElementById('uang').value);

    if (nama.length < 10) {
        alert('Nama harus lebih dari 10 karakter.');
```

```
} else if (uang < 100000) {  
    alert('Uang sanganu minimal 100000.');
```



```
    return;  
} else if (uang > 1000000) {  
    alert('Uang sanganu tidak bisa diatas 1000000.');
```



```
    return;  
}  
  
// Buat objek Pendaftar  
const pendaftar = new Pendaftar(nama, umur, uang);  
  
// Tambahkan objek Pendaftar ke PendaftarList  
pendaftarList.addPendaftar(pendaftar);  
  
// Reset form  
this.reset();  
  
// Tampilkan data pendaftar  
pendaftarList.displayPendaftar();  
});  
  
// Buat objek PendaftarList  
const pendaftarList = new PendaftarList();
```

Tampilan HTML:

Registrasi

List Pendaftar

Nama

Umur

Uang Sangu

Submit

Registrasi

List Pendaftar

Nama	Umur	Uang Sangu
Rizky Alifian	25	200000
Reza Akbar	25	400000
Roronoa Zorro	35	1000000
Geralt of Rivia	55	800000
Yi Sun Shin	45	250000
Lintang Pramiyasti	27	350000
Ilham Nova Widiyanto	87	999000

Rata-rata pendaftar memiliki uang sangu sebesar 571285.71 dengan rata-rata umur 42.71


```
Select Windows PowerShell
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\artif> cd "C:\Users\artif\Videos\Rakamin Resources\Week 5 - Assignments"
PS C:\Users\artif\Videos\Rakamin Resources\Week 5 - Assignments> git init
Initialized empty Git repository in C:/Users/artif/Videos/Rakamin Resources/Week 5 - Assignments/.git/
PS C:\Users\artif\Videos\Rakamin Resources\Week 5 - Assignments> git add .
PS C:\Users\artif\Videos\Rakamin Resources\Week 5 - Assignments> git commit -m "Commit Registrasi User Webpage"
[master (root-commit) 3be3fb4] Commit Registrasi User Webpage
 4 files changed, 220 insertions(+)
 create mode 100644 Assignment Week 5.pdf
 create mode 100644 main.html
 create mode 100644 script.js
 create mode 100644 style.css
PS C:\Users\artif\Videos\Rakamin Resources\Week 5 - Assignments> git branch -M main
PS C:\Users\artif\Videos\Rakamin Resources\Week 5 - Assignments> git remote add origin git@github.com:Majindesu/registra
siUser.git
PS C:\Users\artif\Videos\Rakamin Resources\Week 5 - Assignments> git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 96.44 KiB | 374.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:Majindesu/registrasilUser.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\artif\Videos\Rakamin Resources\Week 5 - Assignments>
```