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LAMPIRAN

Lampiran 1: *Script Coding Algoritma String Matching*

```
public function search(Request $request)
{
    $keyword = request('keyword');
    if ($keyword) {
        $jurnal = Jurnal::where('judul', 'LIKE', '%' . $keyword . '%')
            ->orWhere('ket', 'LIKE', '%' . $keyword . '%')
            ->orWhere('tahun', 'LIKE', '%' . $keyword . '%')
            ->orWhere(function ($query) use ($keyword) {
                $query->whereHas('profile', function ($query2) use ($keyword) {
                    $query2->where('nama', 'LIKE', '%' . $keyword . '%');
                });
            });
        ->paginate(10);
    } else {
        $jurnal = Jurnal::paginate(10);
    }

    return view('frontend.pages.searchResult', ['jurnal' => $jurnal, 'keyword' => $keyword], [
        "title" => "Search Jurnal"
    ]);
}
```

Lampiran 2: *Script Coding Algoritma String Matching Knuth Morris Pratt*

```
<?php
namespace App\Http\Controllers;
use Illuminate\Http\Request;

class KMPController extends Controller
{
    public function kmpSearch($text, $pattern)
    {
        $n = strlen($text);
        $m = strlen($pattern);

        $lps = $this->computeLPSArray($pattern);

        $i = 0; // Index for text[]
        $j = 0; // Index for pattern[]

        $positions = []; // Array untuk menyimpan posisi kemunculan pattern dalam text

        while ($i < $n) {
            if ($pattern[$j] === $text[$i]) {
                $i++;
                $j++;
            }

            if ($j === $m) {
                // Pattern ditemukan di index $i - $j
                $positions[] = $i - $j;
                $j = $lps[$j - 1];
            } elseif ($i < $n && $pattern[$j] !== $text[$i]) {
                if ($j !== 0) {
                    $j = $lps[$j - 1];
                } else {
                    $i++;
                }
            }
        }

        return $positions;
    }
}
```

```

private function computeLPSArray($pattern)
{
    $len = 0; // Length of the previous longest prefix suffix
    $m = strlen($pattern);
    $lps = [];
    $lps[0] = 0;

    $i = 1;
    while ($i < $m) {
        if ($pattern[$i] === $pattern[$len]) {
            $len++;
            $lps[$i] = $len;
            $i++;
        } else {
            if ($len !== 0) {
                $len = $lps[$len - 1];
            } else {
                $lps[$i] = 0;
                $i++;
            }
        }
    }

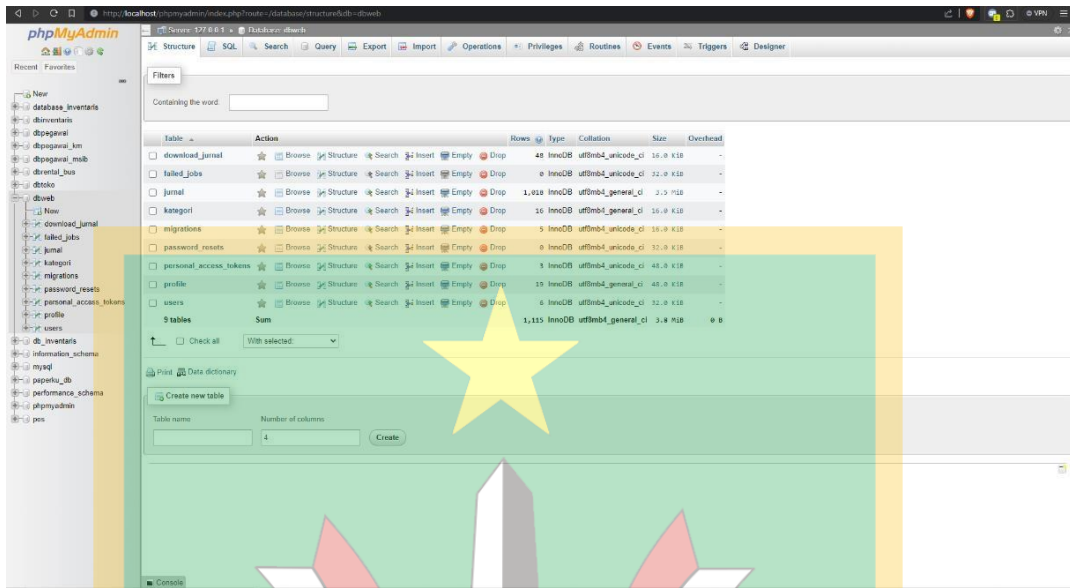
    return $lps;
}

public function search()
{
    $text = "Animasi Desain";
    $pattern = "Desain";
    $positions = $this->kmpSearch($text, $pattern);

    return response()->json([
        'Text' => $text,
        'Pattern' => $pattern,
        'Positions' => $positions
    ]);
}
}

```

Lampiran 3: Database phpMyAdmin



Lampiran 4: Hasil Turnitin Skripsi

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