

Tugas Prak.Pemrograman Berbasis Web A
untuk memenuhi tugas Prak.Pemrograman Berbasis Web A



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S1-Teknik Informatika

Fakultas Teknik Universitas Pancasila

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1. Membuat Database Baru belajar_laravel

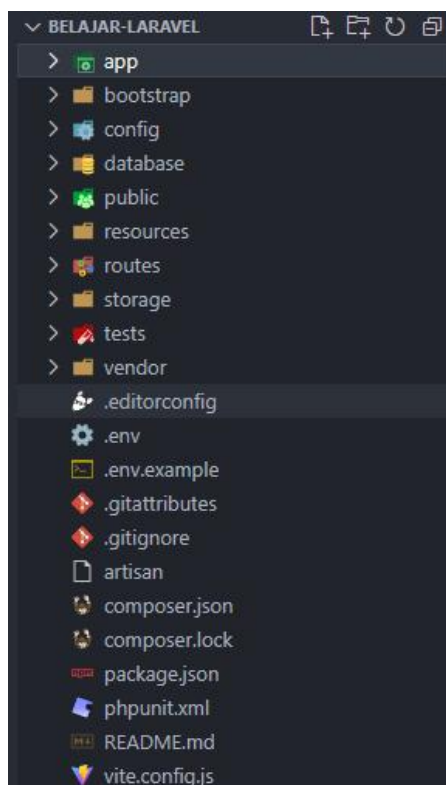
Menggunakan perintah sql dari command mysql

```
CREATE DATABASE belajar_laravel CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci;
```

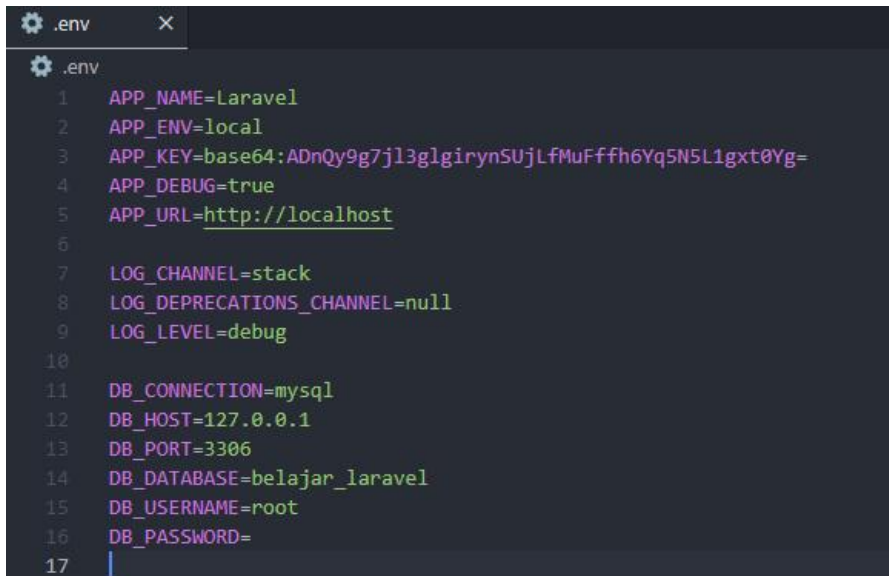
2. Membuat Project Laravel bernama belajar_laravel

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

PS C:\xampp\htdocs> composer create-project laravel/laravel belajar-laravel
Creating a "laravel/laravel" project at "C:\xampp\htdocs\belajar-laravel"
Cannot use laravel/laravel's latest version v11.2.1 as it requires php ^8.2 which is not satisfied by your platform.
Installing laravel/laravel (v10.3.3)
- Installing laravel/laravel (v10.3.3): Extracting archive
Created project in C:\xampp\htdocs\belajar-laravel
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 111 installs, 0 updates, 0 removals
- Locking brick/math (0.12.1)
- Locking carbonphp/carbon-doctrine-types (2.1.0)
- Locking dflydev/dot-access-data (v3.0.3)
- Locking doctrine/inflector (2.0.10)
- Locking doctrine/lexer (3.0.1)
- Locking dragonmantank/cron-expression (v3.4.0)
- Locking egulias/email-validator (4.0.2)
- Locking fakerphp/faker (v1.23.1)
- Locking filp/whoops (2.16.0)
- Locking fruitcake/php-cors (v1.3.0)
- Locking graham-campbell/result-type (v1.1.3)
- Locking guzzlehttp/guzzle (7.9.2)
- Locking guzzlehttp/promises (2.0.3)
- Locking guzzlehttp/psr7 (2.7.0)
- Locking guzzlehttp/uri-template (v1.0.3)
- Locking hamcrest/hamcrest-php (v2.0.1)
- Locking laravel/framework (v10.48.22)
- Locking laravel/pint (v1.18.1)
- Locking laravel/prompts (v0.1.25)
- Locking laravel/sail (v1.35.0)
- Locking laravel/sanctum (v3.3.3)
- Locking laravel/serializable-closure (v1.3.5)
- Locking laravel/tinker (v2.10.0)
- Locking league/commonmark (2.5.3)
- Locking league/config (v1.2.0)
- Locking league/flysystem (3.29.1)
- Locking league/flysystem-local (3.29.0)
- Locking league/mime-type-detection (1.16.0)
- Locking mockery/mockery (1.6.12)
- Locking monolog/monolog (3.7.0)
- Locking nylabs/deep-copy (1.12.0)
```



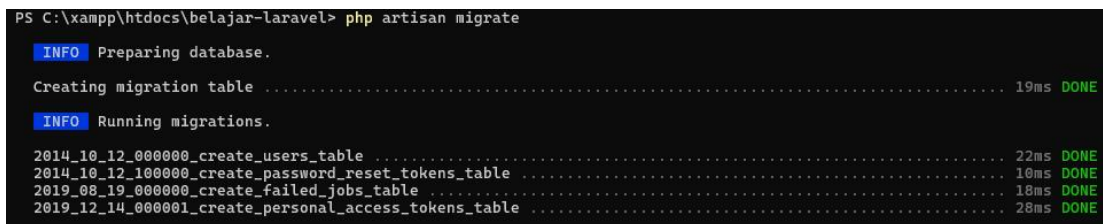
3. Edit Environment Development Laravel



```
.env
1 APP_NAME=Laravel
2 APP_ENV=local
3 APP_KEY=base64:ADnQy9g7jl3glgirynSUjLfMuFffh6Yq5N5L1gxt0Yg=
4 APP_DEBUG=true
5 APP_URL=http://localhost
6
7 LOG_CHANNEL=stack
8 LOG_DEPRECATIONS_CHANNEL=null
9 LOG_LEVEL=debug
10
11 DB_CONNECTION=mysql
12 DB_HOST=127.0.0.1
13 DB_PORT=3306
14 DB_DATABASE=belajar_laravel
15 DB_USERNAME=root
16 DB_PASSWORD=
17
```

4. Migrasi Database

php artisan migrate

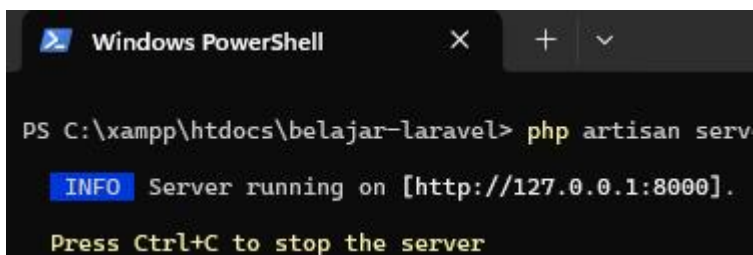


```
PS C:\xampp\htdocs\belajar-laravel> php artisan migrate

INFO: Preparing database.
Creating migration table ..... 19ms DONE
INFO: Running migrations.
2014_10_12_000000_create_users_table ..... 22ms DONE
2014_10_12_100000_create_password_reset_tokens_table ..... 10ms DONE
2019_08_19_000000_create_failed_jobs_table ..... 18ms DONE
2019_12_14_000001_create_personal_access_tokens_table ..... 28ms DONE
```

5. Buka Aplikasi Laravel dari Browser

php artisan serve



```
Windows PowerShell
PS C:\xampp\htdocs\belajar-laravel> php artisan serve

INFO: Server running on [http://127.0.0.1:8000].

Press Ctrl+C to stop the server
```

6. Buka Aplikasi Laravel dari Browser

Langsung dari folder project dengan php web server



7. Buat bukutamu dengan migration

```
php artisan make:migration create_bukutamu_table
```

```
PS C:\xampp\htdocs\belajar-laravel> php artisan make:migration create_bukutamu_table
INFO Migration [C:\xampp\htdocs\belajar-laravel\database\Migrations\2024_10_11_032308_create_bukutamu_table.php] created successfully.
```

8. modifikasi metode up

```
public function up()
{
    Schema::create('bukutamu', function (Blueprint $table) {
        $table->id();
        $table->string('nama_pengunjung');
        $table->text('komentar');
        $table->timestamps();
    });
}
```

9. Menjalankan migration

```
php artisan migrate
```

```
PS C:\xampp\htdocs\belajar-laravel> php artisan migrate
INFO Running migrations.
2024_10_11_032308_create_bukutamu_table ..... 30ms DONE
```

10. Membuat Model BukuTamu dengan make:model

```
php artisan make:model BukuTamu
```

```
PS C:\xampp\htdocs\belajar-laravel> php artisan make:model BukuTamu
```

```
INFO Model [C:\xampp\htdocs\belajar-laravel\app\Models\BukuTamu.php] created successfully.
```

11. Membuat Controller BukuTamu dengan make:controller

```
php artisan make:controller BukuTamuController
```

```
PS C:\xampp\htdocs\belajar-laravel> php artisan make:controller BukuTamuController
```

```
INFO Controller [C:\xampp\htdocs\belajar-laravel\app\Http\Controllers\BukuTamuController.php] created successfully.
```

12. Buka file app/Http/Controllers/BukuTamuController.php dan tambahkan metode berikut:

```
<?php

namespace App\Http\Controllers;
use App\Models\BukuTamu;
use Illuminate\Http\Request;
class BukuTamuController extends Controller
{
    // Menampilkan halaman landing page
    public function index()
    {
        return view('welcome');
    }
    // Menampilkan formulir buku tamu
    public function create()
    {
        return view('bukutamu.create');
    }
    // Menyimpan data buku tamu
    public function store(Request $request)
    {
        // Validasi input
        $request->validate([
            'nama_pengunjung' => 'required|max:255',
            'komentar' => 'required',
        ]);
        // Simpan data ke database
        BukuTamu::create([
            'nama_pengunjung' => $request->nama_pengunjung,
            'komentar' => $request->komentar,
        ]);
        // Redirect ke halaman melihat komentar
        return redirect()->route('bukutamu.show');
    }
}
```

```
// Menampilkan komentar dari para tamu
public function show()
{
    $data = BukuTamu::latest()->get();
    return view('bukutamu.show', compact('data'));
}
}
```

13. Mengatur Mass Assignment pada file app/Models/BukuTamu.php dan tambahkan property \$fillable

```
<?php

namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
class BukuTamu extends Model
{
    use HasFactory;
    use HasFactory;
    protected $table = 'bukutamu';
    protected $fillable = [
        'nama_pengunjung',
        'komentar',
    ];
}
```

14. Menyiapkan Routing, Buka file routes/web.php dan tambahkan route berikut:

```
<?php

use App\Http\Controllers\BukuTamuController;
use App\Models\BukuTamu;
use Illuminate\Support\Facades\Route;
/*
|-----
|-----
| Web Routes
|-----
|-----
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider and all of them will
| be assigned to the "web" middleware group. Make something great!
|
*/
Route::get('/', function () {
    return view('welcome');
});
```

```

Route::get('/', [BukuTamuController::class, 'index'])->name('home');
Route::get('/bukutamu', [BukuTamuController::class, 'create'])->
>name('bukutamu.create');
Route::post('/bukutamu', [BukuTamuController::class, 'store'])->
>name('bukutamu.store');
Route::get('/bukutamu/komentar', [BukuTamuController::class, 'show'])->
>name('bukutamu.show');

```

15. Membuat View/Tampilan Web dengan Blade, Halaman landing page (welcome.blade.php) :

```

<!DOCTYPE html>
<html>
<head>
    <title>Selamat Datang</title>
</head>
<body>
    <h1>Selamat Datang di Buku Tamu</h1>
    <a href="{{ route('bukutamu.create') }}">Isi Buku Tamu</a> |
    <a href="{{ route('bukutamu.show') }}">Lihat Komentar</a>
</body>
</html>

```

16. Halaman isi Buku Tamu (bukutamu/create.blade.php)

```

<!DOCTYPE html>
<html>
<head>
    <title>Isi Buku Tamu</title>
</head>
<body>
    <h1>Isi Buku Tamu</h1>

    @if ($errors->any())
        <div style="color:red;">
            <ul>
                @foreach ($errors->all() as $error)
                    <li>{{ $error }}</li>
                @endforeach
            </ul>
        </div>
    @endif

    <form action="{{ route('bukutamu.store') }}" method="POST">
        @csrf
        <label for="nama_pengunjung">Nama:</label><br>
        <input type="text" id="nama_pengunjung" name="nama_pengunjung"
value="{{ old('nama_pengunjung') }}"><br><br>
        <label for="komentar">Komentar:</label><br>

```



```

        <textarea id="komentar"
name="komentar">{{ old('komentar') }}</textarea><br><br>
        <button type="submit">Kirim</button>
    </form>
    <br>
    <a href="{{ route('home') }}">Kembali ke Halaman Utama</a>
</body>
</html>

```

17. Halaman Lihat Komentar (bukutamu/show.blade.php)

```

<!DOCTYPE html>
<html>
<head>
    <title>Komentar Buku Tamu</title>
</head>
<body>
    <h1>Komentar dari Para Tamu</h1>

    @if ($data->isEmpty())
        <p>Belum ada komentar.</p>
    @else
        @foreach ($data as $item)
            <div style="border:1px solid #ccc; padding:10px; margin-
bottom:10px;">
                <strong>{{ $item->nama_pengunjung }}</strong>
                berkata:<br>
                <p>{{ $item->komentar }}</p>
                <small>Waktu: {{ $item->created_at }}</small>
            </div>
        @endforeach
    @endif
    <br>
    <a href="{{ route('home') }}">Kembali ke Halaman Utama</a>
</body>
</html>

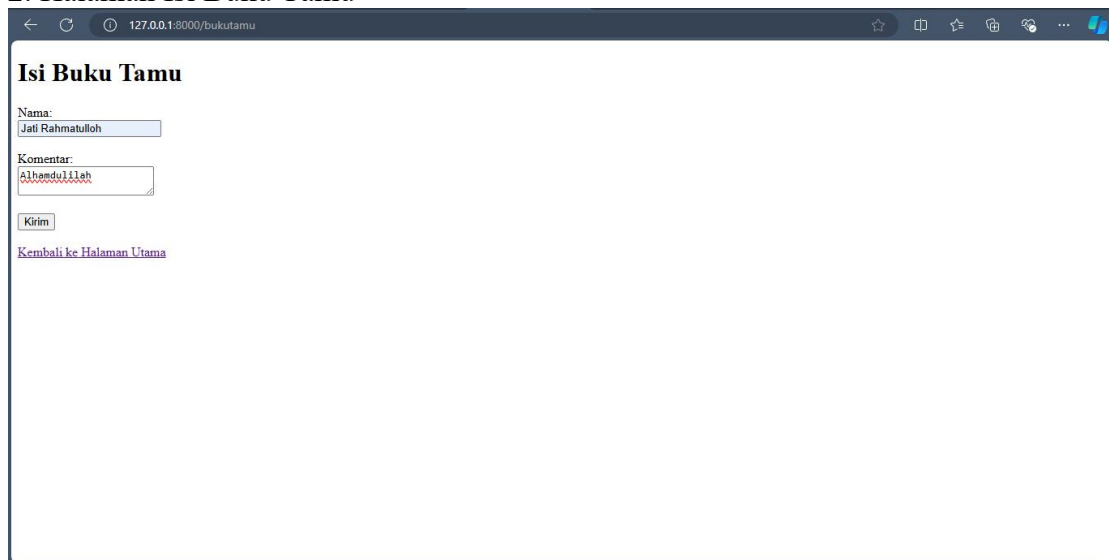
```

Screenshot Tampilan Halaman :

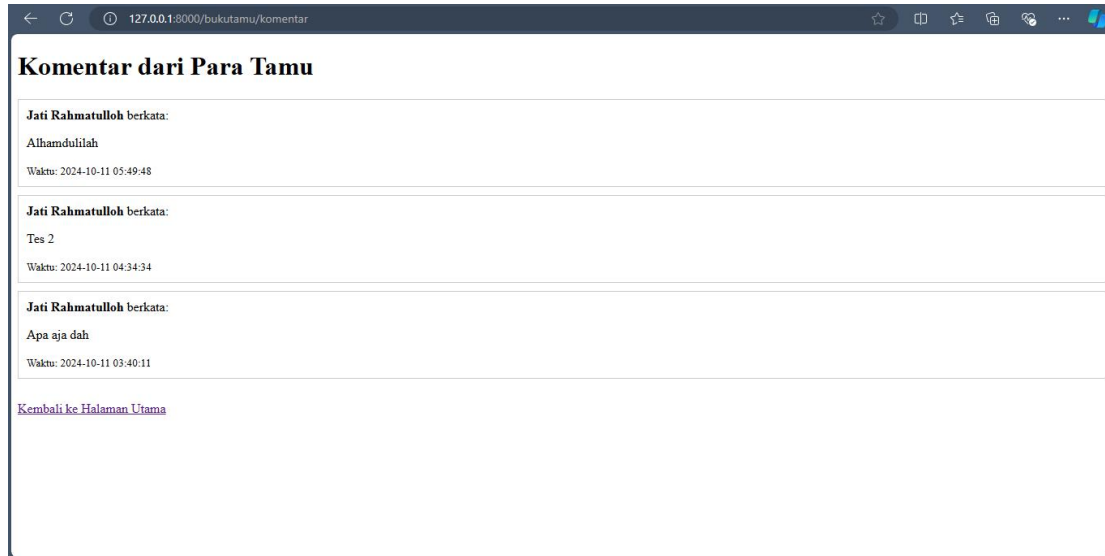
1. Halaman Awal



2. Halaman Isi Buku Tamu



3. Halaman Melihat komentar Tamu



Kesimpulan

Aplikasi Buku Tamu ini berhasil dikembangkan menggunakan Laravel dengan fitur utama seperti pengisian komentar oleh pengunjung dan penampilan daftar komentar yang telah dikumpulkan. Penggunaan Laravel mempermudah dalam hal struktur proyek, pengelolaan routing, serta interaksi dengan database MySQL. Validasi input juga diimplementasikan untuk memastikan data yang masuk ke database sesuai dengan yang diharapkan.

