

LAPORAN TUGAS PRAKTIKUM PEMROGRAMAN BERBASIS WEB

“Tugas 6 (Pengertian Laravel: Membuat web aplikasi Buku Tamu)”



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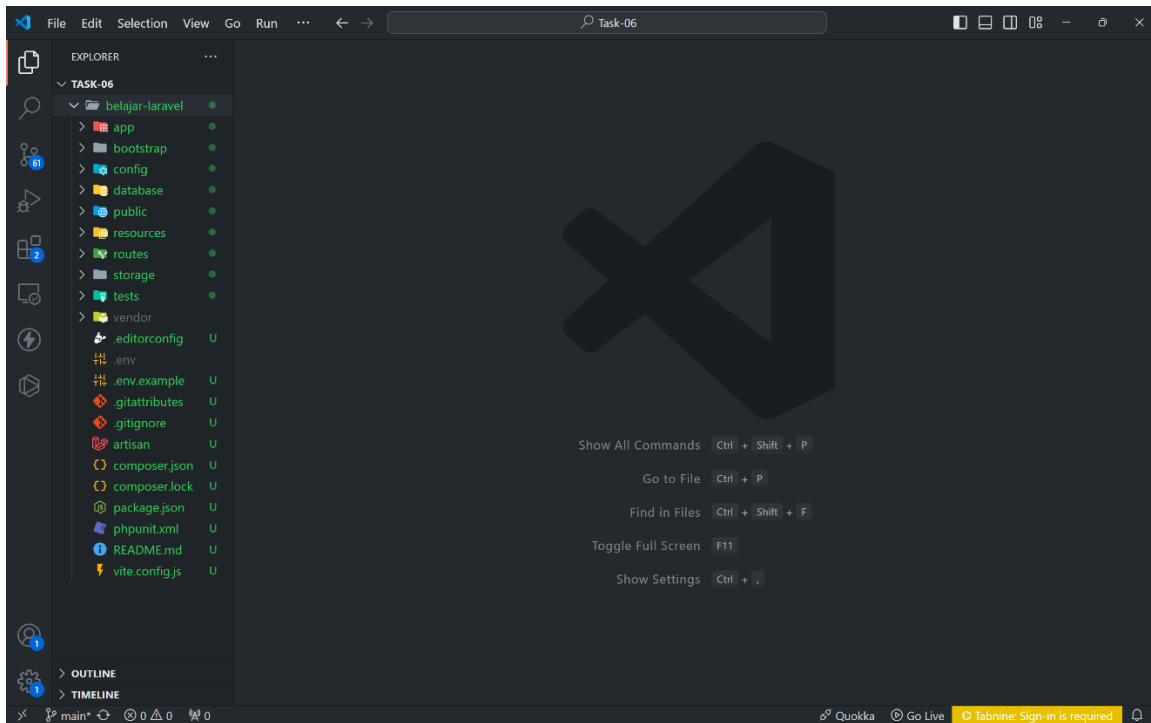
Fakultas Teknik Universitas Pancasila

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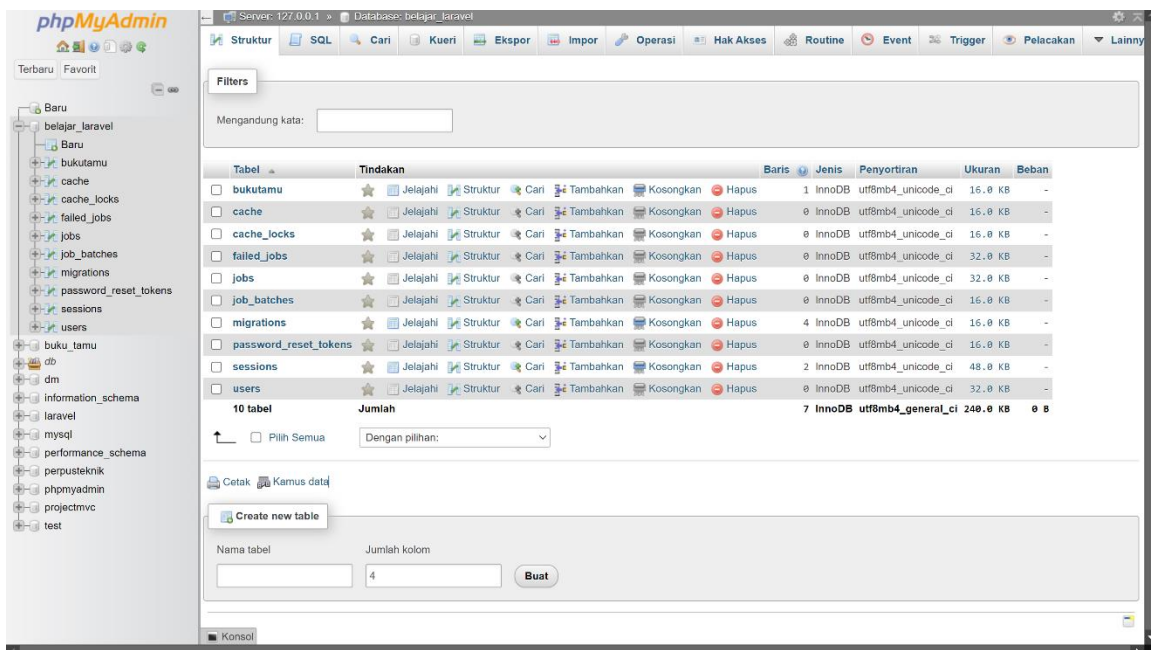
Tujuan Praktikum

Praktikum kali ini bertujuan untuk memahami bagaimana cara menginstall, mengkonfigurasi dan menggunakan framework Laravel v11 dalam studi kasus pembuatan web aplikasi Buku Tamu.

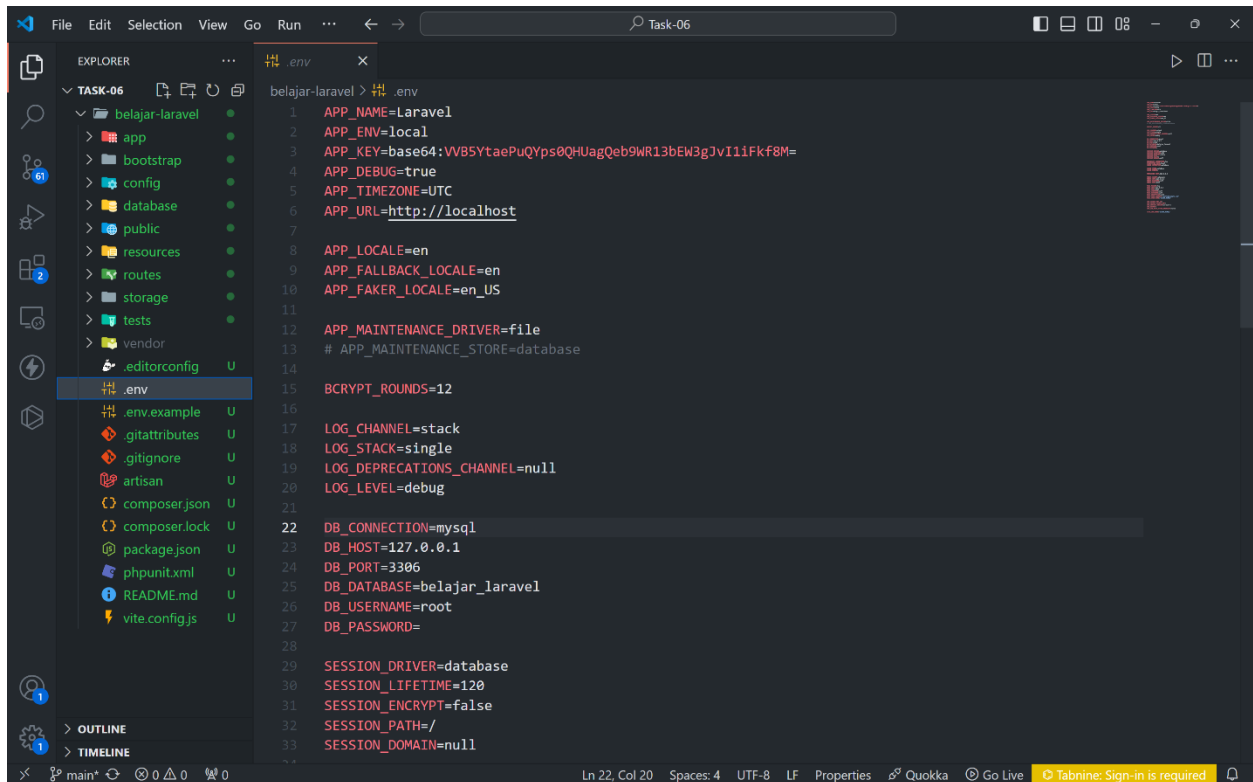
Folder utama



Database

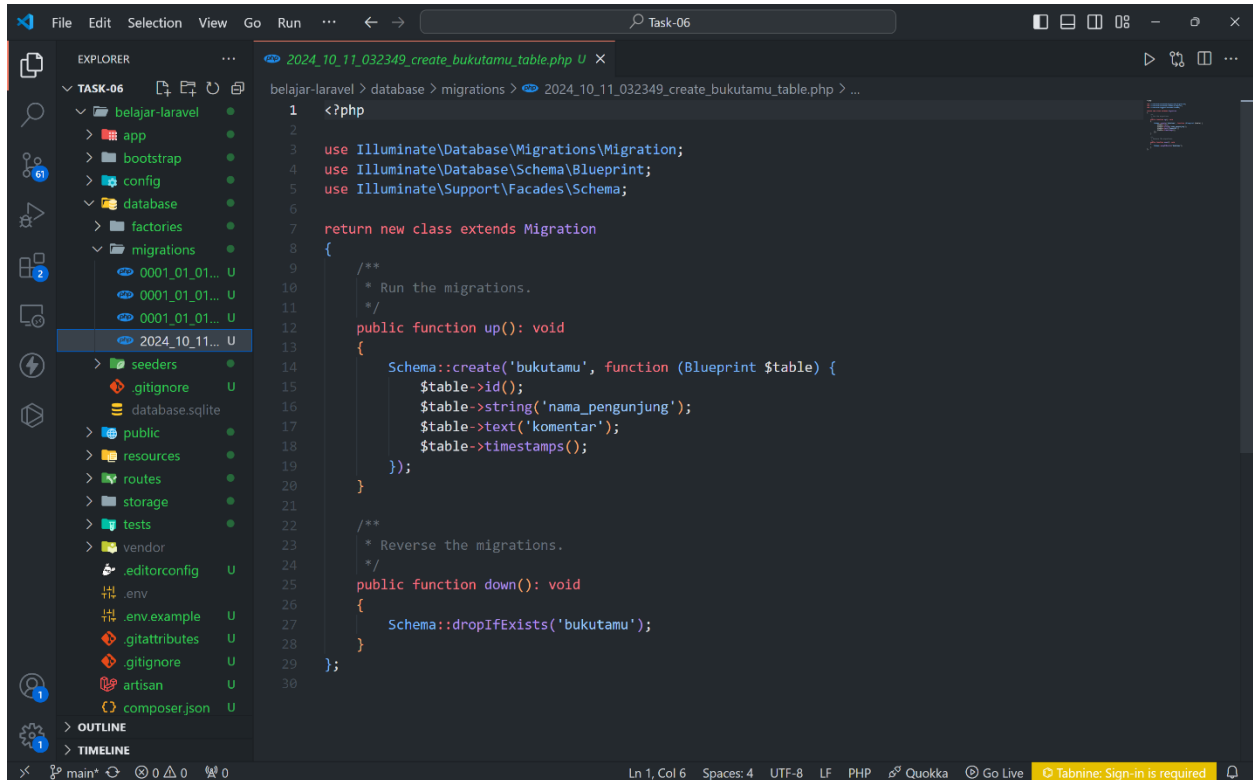


Screenshoot Source Code



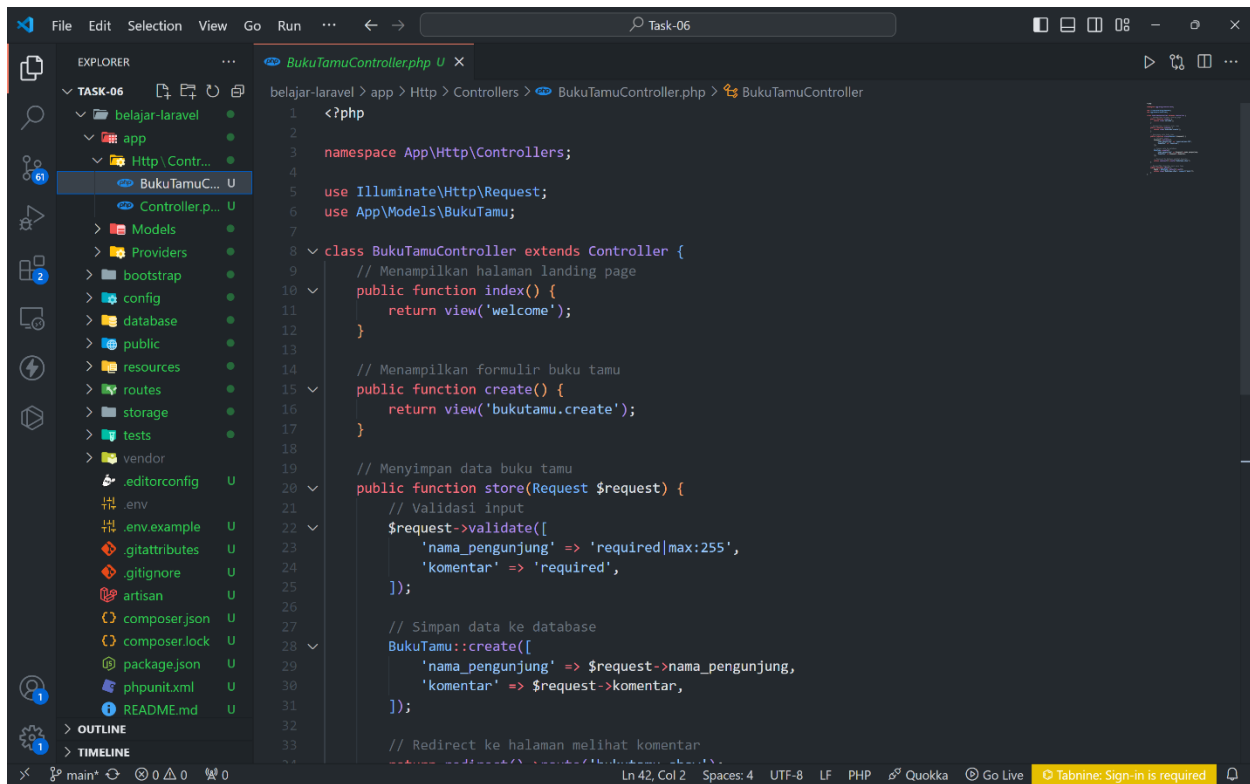
This screenshot shows the Visual Studio Code editor with a Laravel project open. The Explorer panel on the left shows the project structure, with the `.env` file selected. The main editor displays the contents of the `.env` file, which contains various configuration variables for the application, including database settings, session settings, and logging options.

```
1 APP_NAME=Laravel
2 APP_ENV=local
3 APP_KEY=base64:VVB5SYtaePuQYps0QHUagQeb9WR13bEW3gJvI11Fkf8M=
4 APP_DEBUG=true
5 APP_TIMEZONE=UTC
6 APP_URL=http://localhost
7
8 APP_LOCALE=en
9 APP_FALLBACK_LOCALE=en
10 APP_FAKER_LOCALE=en_US
11
12 APP_MAINTENANCE_DRIVER=file
13 # APP_MAINTENANCE_STORE=database
14
15 BCRYPT_ROUNDS=12
16
17 LOG_CHANNEL=stack
18 LOG_STACK=single
19 LOG_DEPRECATED_CHANNEL=null
20 LOG_LEVEL=debug
21
22 DB_CONNECTION=mysql
23 DB_HOST=127.0.0.1
24 DB_PORT=3306
25 DB_DATABASE=belajar_laravel
26 DB_USERNAME=root
27 DB_PASSWORD=
28
29 SESSION_DRIVER=database
30 SESSION_LIFETIME=120
31 SESSION_ENCRYPT=false
32 SESSION_PATH=/
33 SESSION_DOMAIN=null
```



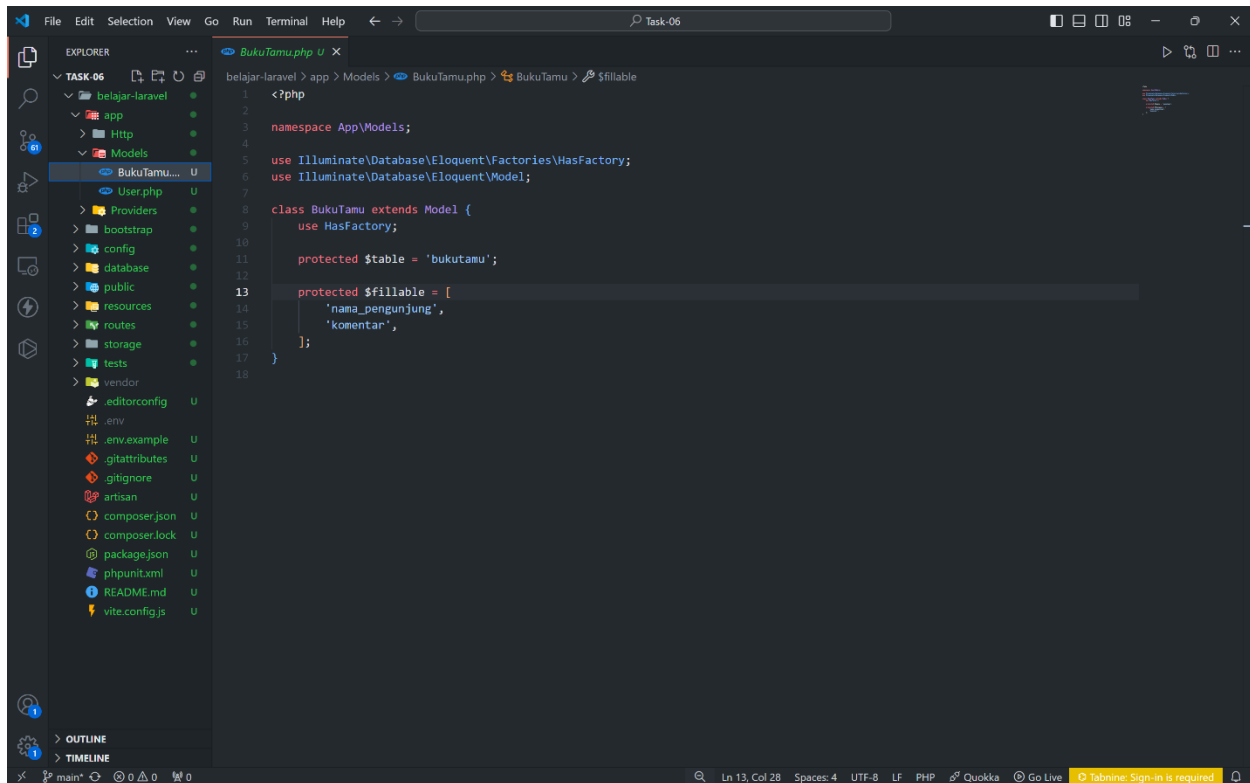
This screenshot shows the Visual Studio Code editor with a Laravel project open. The Explorer panel on the left shows the project structure, with the `migrations` folder expanded and the file `2024_10_11_032349_create_bukutamu_table.php` selected. The main editor displays the contents of this migration file, which defines a new database table named `bukutamu` with columns for `id`, `nama_pengunjung`, `komentar`, and `timestamps`.

```
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     /**
10      * Run the migrations.
11      */
12     public function up(): void
13     {
14         Schema::create('bukutamu', function (Blueprint $table) {
15             $table->id();
16             $table->string('nama_pengunjung');
17             $table->text('komentar');
18             $table->timestamps();
19         });
20     }
21
22     /**
23      * Reverse the migrations.
24      */
25     public function down(): void
26     {
27         Schema::dropIfExists('bukutamu');
28     }
29 };
30
```



The screenshot shows the Visual Studio Code editor with the Explorer sidebar on the left displaying the project structure. The file `BukuTamuController.php` is selected. The main editor area shows the PHP code for the controller. The code includes namespace declarations, use statements for `Illuminate\Http\Request` and `App\Models\BukuTamu`, and three methods: `index()`, `create()`, and `store()`. The `store()` method includes input validation and database storage logic.

```
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6 use App\Models\BukuTamu;
7
8 class BukuTamuController extends Controller {
9     // Menampilkan halaman landing page
10    public function index() {
11        return view('welcome');
12    }
13
14    // Menampilkan formulir buku tamu
15    public function create() {
16        return view('bukutamu.create');
17    }
18
19    // Menyimpan data buku tamu
20    public function store(Request $request) {
21        // Validasi input
22        $request->validate([
23            'nama_pengunjung' => 'required|max:255',
24            'komentar' => 'required',
25        ]);
26
27        // Simpan data ke database
28        BukuTamu::create([
29            'nama_pengunjung' => $request->nama_pengunjung,
30            'komentar' => $request->komentar,
31        ]);
32
33        // Redirect ke halaman melihat komentar
34    }
```



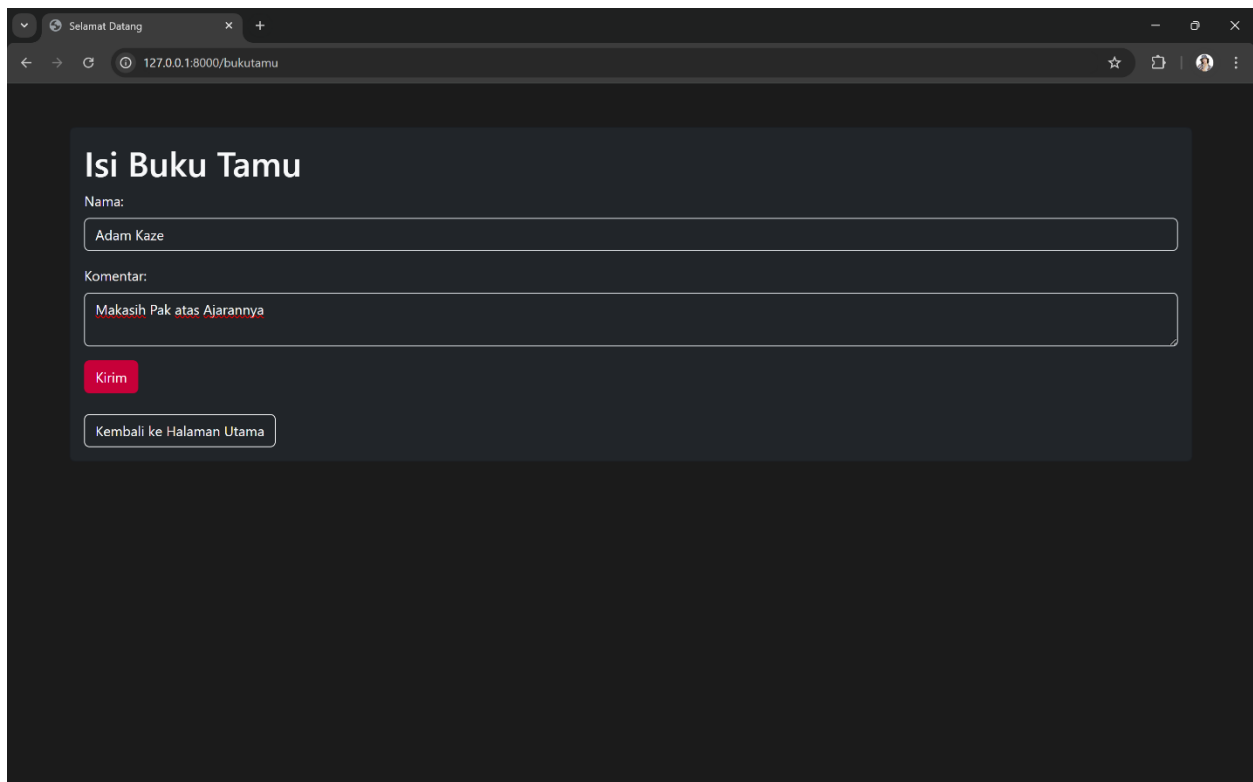
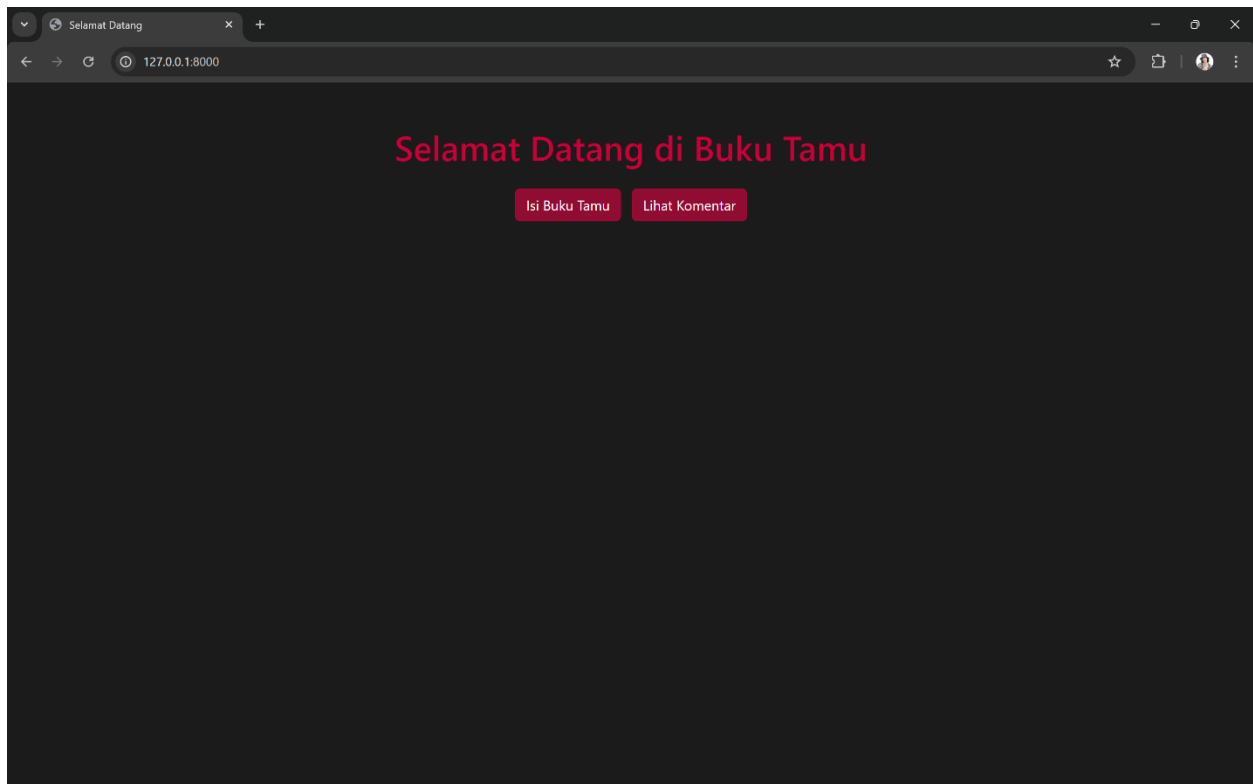
The screenshot shows the Visual Studio Code editor with the Explorer sidebar on the left displaying the project structure. The file `BukuTamu.php` is selected. The main editor area shows the PHP code for the model. The code includes namespace declarations, use statements for `Illuminate\Database\Eloquent\Factories\HasFactory` and `Illuminate\Database\Eloquent\Model`, and the `BukuTamu` class extending `Model`. The class has a `$table` property and a `$fillable` array.

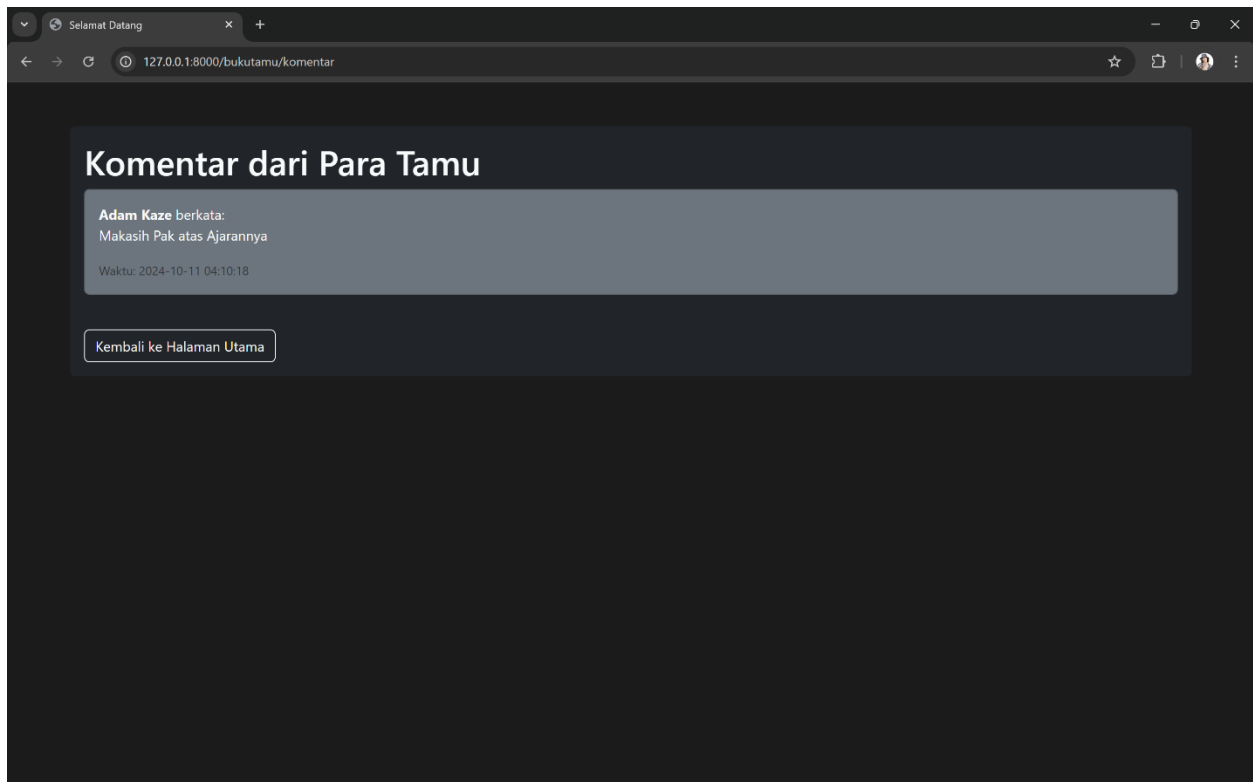
```
1 <?php
2
3 namespace App\Models;
4
5 use Illuminate\Database\Eloquent\Factories\HasFactory;
6 use Illuminate\Database\Eloquent\Model;
7
8 class BukuTamu extends Model {
9     use HasFactory;
10
11    protected $table = 'bukutamu';
12
13    protected $fillable = [
14        'nama_pengunjung',
15        'komentar',
16    ];
17
18 }
```

```
1 <?php
2
3 use Illuminate\Support\Facades\Route;
4 use App\Http\Controllers\BukuTamuController;
5
6 // Route::get('/', function () {
7 //     return view('welcome');
8 // });
9
10 Route::get('/', [BukuTamuController::class, 'index'])->name('home');
11 Route::get('/bukutamu', [BukuTamuController::class, 'create'])->name('bukutamu.create');
12 Route::post('/bukutamu', [BukuTamuController::class, 'store'])->name('bukutamu.store');
13 Route::get('/bukutamu/komentar', [BukuTamuController::class, 'show'])->name('bukutamu.show');
```

```
1 <html lang="{{ str_replace('_', '-', app()->getLocale()) }}">
2 <head>
3
17 <style>
18
19     a {
20         color: #9d0b35e8;
21         text-decoration: none;
22     }
23
24     a:hover {
25         color: #ff4d4d;
26     }
27
28     .btn-custom {
29         background-color: #9d0b35e8;
30         border-color: #9d0b35e8;
31         color: white;
32     }
33
34     .btn-custom:hover {
35         background-color: #ff4d4d;
36         border-color: #ff4d4d;
37     }
38
39     /* General layout */
40     .container {
41         margin-top: 50px;
42     }
43
44 </style>
45 </head>
46 <body class="font-sans antialiased">
47     <div class="container text-center">
48         <h1>Selamat Datang di Buku Tamu</h1>
49         <div class="mt-4">
50             <a href="{{ route('bukutamu.create') }}" class="btn btn-custom">Isi Buku Tamu</a>
51             <a href="{{ route('bukutamu.show') }}" class="btn btn-custom ms-2">Lihat Komentar</a>
52         </div>
53     </div>
54 </body>
55 </html>
```


Screenshoot Hasil Tampilan





Kesimpulan dan Saran

Saya dapat memahami cara penginstalan dan penggunaan Laravel v11 di laptop saya. Ternyata penggunaan framework Laravel jauh lebih memudahkan dibandingkan membuatnya secara manual. Dan saya jadi mulai memahami struktur dasar untuk menggunakan PHP dalam website. Saran dari saya, kedepannya perbanyak lagi penggunaan Laravel dalam matakuliah Prak. PBW ini.