

LAPORAN 1

Integratif Programming

Initial Database



Disusun Oleh :

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PROGRAM STUDI S.TR TEKNOLOGI REKAYASA KOMPUTER

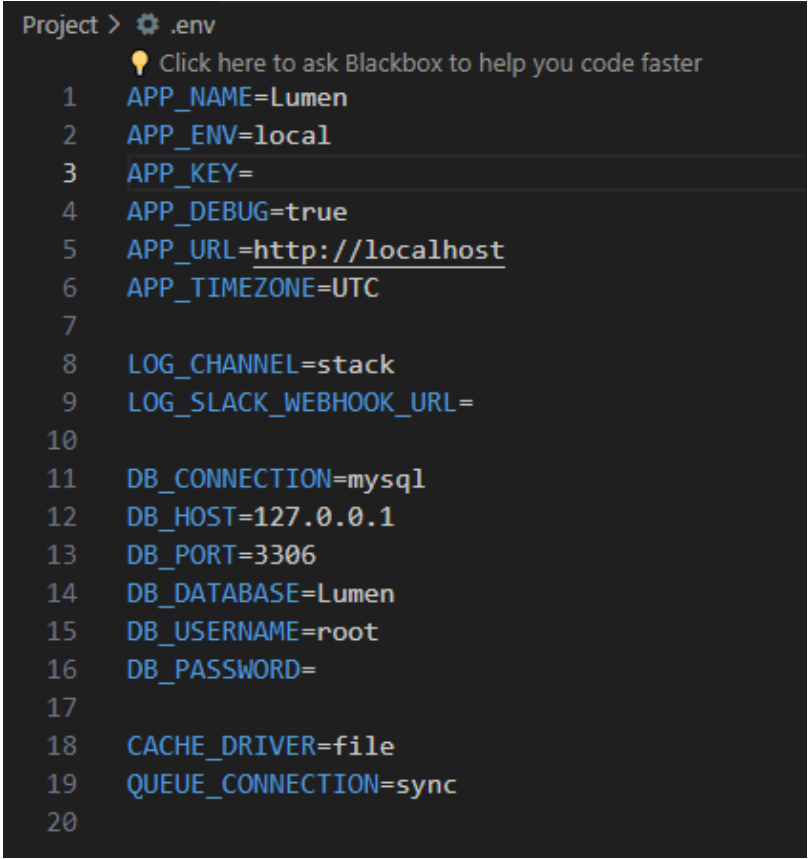
JURUSAN TEKNIK ELEKTRO

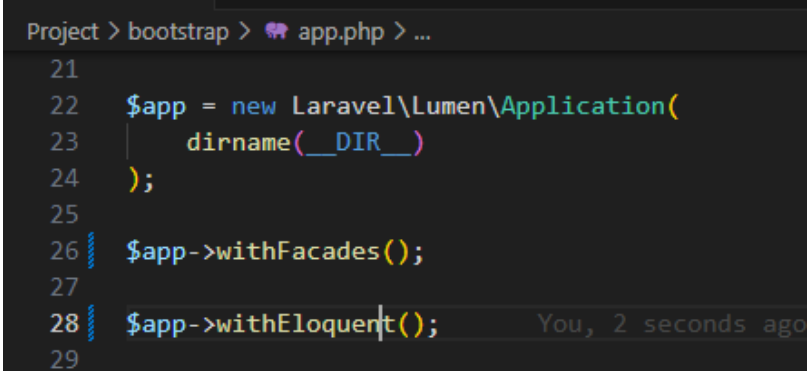
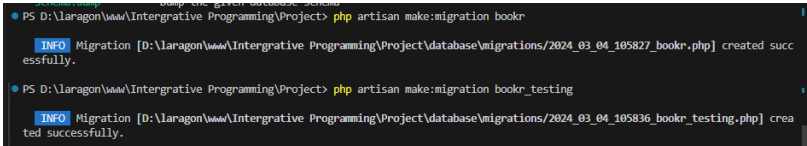
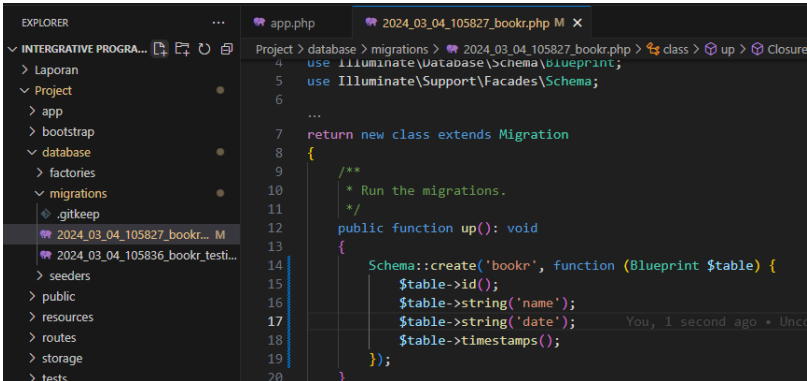
POLITEKNIK NEGERI SEMARANG

TAHUN 2024

PRAKTEK

I. Lembar Kerja

No	Praktik	Hasil Program
1	Konfigurasi ENV + Enabling Facades and Eloquent	<p>Buka file project , lalu edit bagian .env</p> <p>Hal yang perlu di edit</p> <p>DB_DATABASE=(Nama database)</p> <p>DB_USERNAME=(Username database)</p> <p>DB_PASSWORD=(Password database)</p>  <pre> Project > ⚙ .env 🔔 Click here to ask Blackbox to help you code faster 1 APP_NAME=Lumen 2 APP_ENV=local 3 APP_KEY= 4 APP_DEBUG=true 5 APP_URL=http://localhost 6 APP_TIMEZONE=UTC 7 8 LOG_CHANNEL=stack 9 LOG_SLACK_WEBHOOK_URL= 10 11 DB_CONNECTION=mysql 12 DB_HOST=127.0.0.1 13 DB_PORT=3306 14 DB_DATABASE=Lumen 15 DB_USERNAME=root 16 DB_PASSWORD= 17 18 CACHE_DRIVER=file 19 QUEUE_CONNECTION=sync 20 </pre> <p>Untuk mengaktifkan fitur Façade dan Eloquent agar pengkodean database akan menjadi lebih mudah</p>

		 <pre> Project > bootstrap > app.php > ... 21 22 \$app = new Laravel\Lumen\Application(23 dirname(__DIR__) 24); 25 26 \$app->withFacades(); 27 28 \$app->withEloquent(); 29 </pre>
2	Pembuatan Table	<p>Untuk membuat table Laravel mempunyai command untuk membuat database yaitu “php artisan make:migration (namatabel)”. Pada saat command ini dijalankan akan membuat file migration yang berfungsi sebagai table structure</p>  <pre> PS D:\laragon\www\Intergrative Programming\Project> php artisan make:migration bookr INFO Migration [D:\laragon\www\Intergrative Programming\Project\database\migrations\2024_03_04_105827_bookr.php] created successfully. PS D:\laragon\www\Intergrative Programming\Project> php artisan make:migration bookr_testing INFO Migration [D:\laragon\www\Intergrative Programming\Project\database\migrations\2024_03_04_105836_bookr_testing.php] created successfully. </pre> <p>Buka file migration yang telah terbuat , lalu tambahkan bagian up dengan template yang ada di Laravel documentation : migration , lalu ubah bagian \$table nya untuk menambahkan row yang diinginkan , pada contoh dibawah tabel bookr berisi id , name , date dan timestamp.</p>  <pre> EXPLORER INTERGRATIVE PROGRA... > Laporan > Project > app > bootstrap > database > factories > migrations > .gitkeep 2024_03_04_105827_bookr... M 2024_03_04_105836_bookr_testi... > seeders > public > resources > routes > storage > tests Project > database > migrations > 2024_03_04_105827_bookr.php > class > up > Closure 4 use Illuminate\Database\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('bookr', function (Blueprint \$table) { 15 \$table->id(); 16 \$table->string('name'); 17 \$table->string('date'); 18 \$table->timestamps(); 19 }); 20 } </pre> <p>Lalu untuk menjalankan file migration bisa menggunakan command “php artisan:migrate” , pada contoh di bawah saya belum membuat database Lumen pada localhost/phpMyAdmin , disini Laravel menanyakan apakah</p>

		<p>ingin membuat database dengan nama tersebut atau tidak , tentu saja kita pilih yes , lalu migration akan berjalan</p> <pre> PS D:\laragon\www\Intergrative Programming\Project> php artisan migrate [WARN] The database 'Lumen' does not exist on the 'mysql' connection. Would you like to create it? (yes/no) [no] > y [INFO] Preparing database. Creating migration table 454ms DONE [INFO] Running migrations. 2024_03_04_105327_bookr 14ms DONE 2024_03_04_105336_bookr_testing 0ms DONE PS D:\laragon\www\Intergrative Programming\Project> </pre> <p>Berikut adalah hasil dari migration pada phpMyAdmin</p>  <p>The screenshot shows the phpMyAdmin interface for the 'lumen' database. The left sidebar shows a tree of databases including 'lumen'. The main panel shows the 'bookr' table structure with columns: id, name, date, created_at, updated_at. A query 'SELECT * FROM `bookr`' has been executed, resulting in an empty result set (0 rows).</p>
3	Test With PHPUnit	<p>Jalankan “./vendor/bin/phpunit” pada terminal project kita untuk menjalankan testing phpunit</p> <pre> PS D:\laragon\www\Intergrative Programming\Project> ./vendor/bin/phpunit PHPUnit 10.5.11 by Sebastian Bergmann and contributors. Runtime: PHP 8.1.10 Configuration: D:\laragon\www\Intergrative Programming\Project\phpunit.xml - 1 / 1 (100%) Time: 00:01.682, Memory: 14.00 MB OK (1 test, 1 assertion) </pre>

TEORI

I. Lembar Soal

N/A

II. Lembar Kerja

N/A