



APLIKASI KASIR COFFE SHOP BERBASIS WEB

Tugas UTS

Diajukan sebagai salah satu syarat untuk menyelesaikan Studi
Independen Kampus Merdeka Batch 4

Oleh ;

Kelompok 11

- **Leader :**

Yohanes Cahyadi

- **Anggota :**

Aqil Jawadal Furqon

Srf. Fadlun Al Madihi

Vinesia Prahesti Adiyaningtyas

Yoga Aditya Nugraha

PT. GITS INDONESIA

2023

1. Pendahuluan

Aplikasi Kasir Coffe Shop merupakan sebuah program yang dirancang untuk membantu kasir dalam mengelola pencatatan transaksi per-item. Dalam aplikasi tersebut terdapat fitur authentication berupa login dan register, product management, category product management, cart management dan transaction list.

Pada sistem penjualan dengan pencatatan manual memiliki banyak kelemahan salah satunya salah pencatatan dan perhitungan total pendapatan. Oleh karena itu, Kami merancang sebuah sistem informasi aplikasi kasir coffe shop berbasis web.

2. Penggunaan Stack

Dalam perancangan aplikasi kasir coffe shop menggunakan beberapa stack, yaitu;

a) Laravel 9



Laravel merupakan framework berbasis bahasa pemrograman PHP yang berguna untuk membantu proses pengembangan website yang lebih dinamis.

Berikut kelebihan Laravel;

- Templatannya ringan
- Library lengkap
- Tools artisan
- Modul bersifat individu dan independen

b) Bootstrap



Bootstrap adalah framework HTML, CSS dan JavaScript yang digunakan untuk mendesain website agar responsive dengan cepat dan mudah.

Kelebihan Bootstrap antara lain;

- Ramah bagi pemula
- Open-Source
- Bebas dalam kustomisasi
- Grid sistem canggih

c) Guzzle (For Seeder Image from URL)



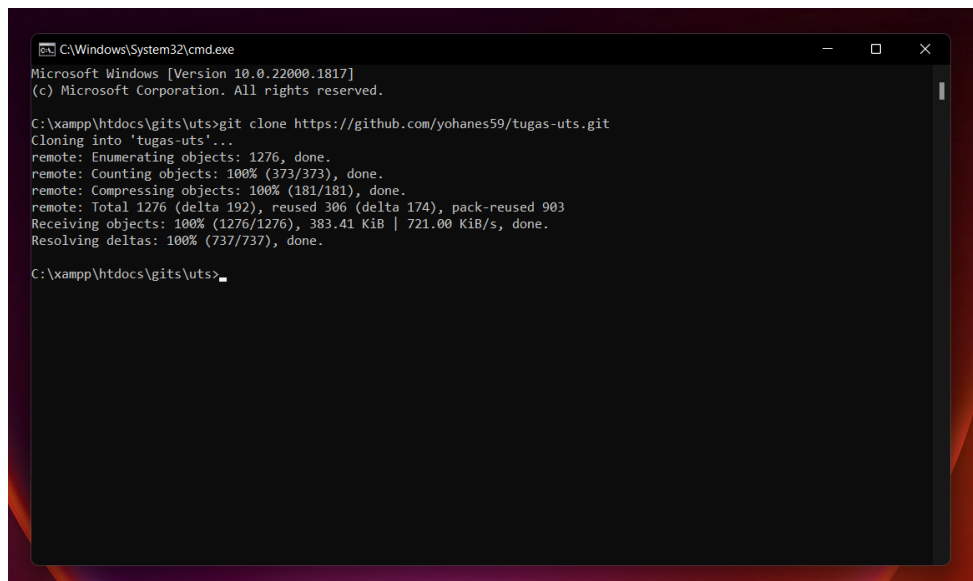
Guzzle adalah HTTP Client di PHP untuk memudahkan dalam pengiriman HTTP request dan pengintegrasian dengan web service.

3. Cara Penggunaan Aplikasi

Berikut cara dalam penggunaan aplikasi;

a) Clone Repository pada git bash dengan menggunakan perintah terminal :

[git clone](#)

A screenshot of a Windows Command Prompt window. The title bar reads "C:\Windows\System32\cmd.exe". The window content shows the output of a git clone command. The prompt is "C:\xampp\htdocs\gits\uts>". The output text is: "Microsoft Windows [Version 10.0.22000.1817] (c) Microsoft Corporation. All rights reserved. C:\xampp\htdocs\gits\uts>git clone https://github.com/yohanes59/tugas-uts.git Cloning into 'tugas-uts'... remote: Enumerating objects: 1276, done. remote: Counting objects: 100% (373/373), done. remote: Compressing objects: 100% (181/181), done. remote: Total 1276 (delta 192), reused 306 (delta 174), pack-reused 903 Receiving objects: 100% (1276/1276), 383.41 KiB | 721.00 KiB/s, done. Resolving deltas: 100% (737/737), done. C:\xampp\htdocs\gits\uts>".

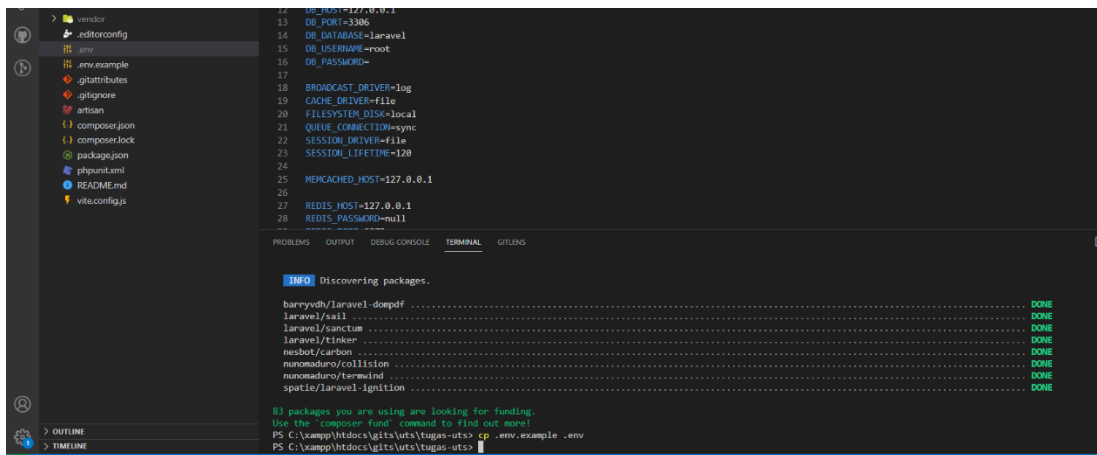
```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22000.1817]
(c) Microsoft Corporation. All rights reserved.

C:\xampp\htdocs\gits\uts>git clone https://github.com/yohanes59/tugas-uts.git
Cloning into 'tugas-uts'...
remote: Enumerating objects: 1276, done.
remote: Counting objects: 100% (373/373), done.
remote: Compressing objects: 100% (181/181), done.
remote: Total 1276 (delta 192), reused 306 (delta 174), pack-reused 903
Receiving objects: 100% (1276/1276), 383.41 KiB | 721.00 KiB/s, done.
Resolving deltas: 100% (737/737), done.

C:\xampp\htdocs\gits\uts>
```

b) Buat file .env dengan perintah terminal :

`cp .env.example .env`

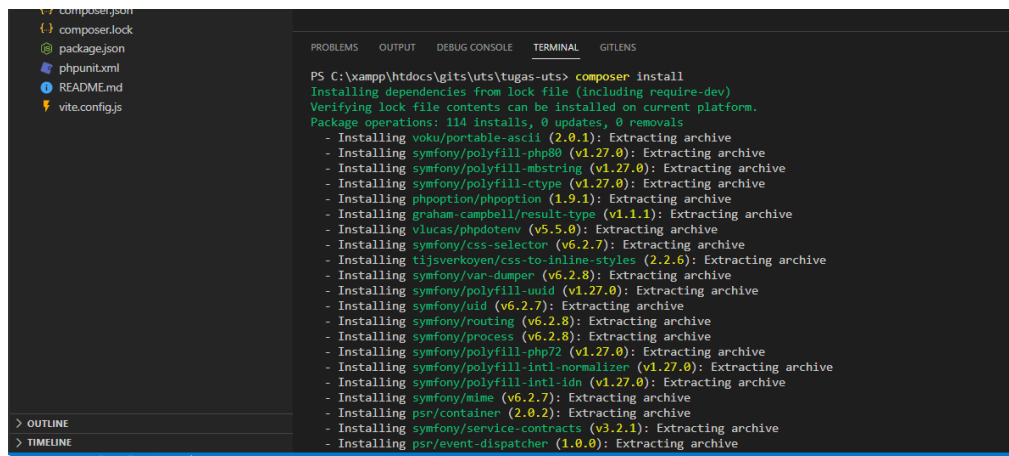


The screenshot shows a VS Code editor with a file explorer on the left containing files like .env, .env.example, .gitattributes, .gitignore, artisan, composer.json, composer.lock, package.json, phpunit.xml, README.md, and vite.config.js. The .env file is open in the editor, showing configuration for Redis and Memcached. The terminal at the bottom shows the command `cp .env.example .env` being executed, followed by a list of discovered packages and their installation status (DONE).

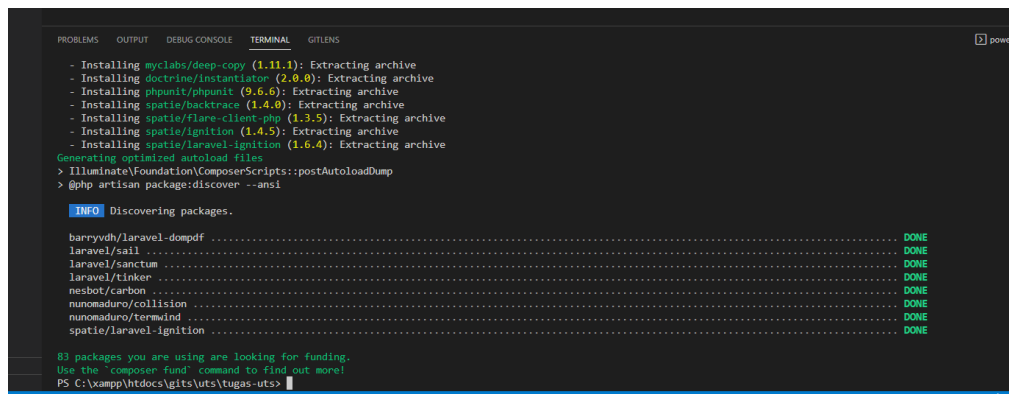
c) Sesuaikan nama database pada file .env pada bagian DB_DATABASE sesuai dengan nama pada database mysql anda

d) Install library dengan menggunakan perintah terminal :

`composer install`



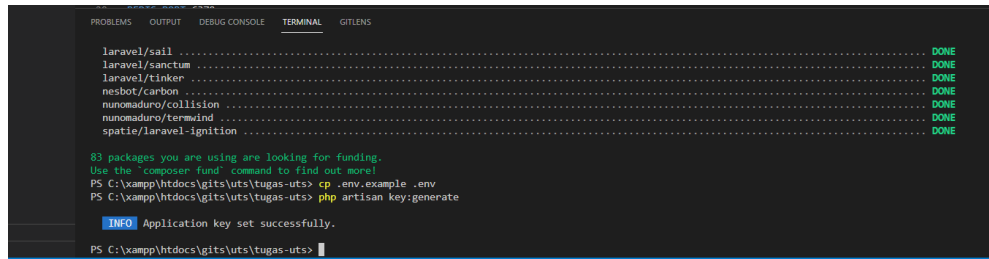
The screenshot shows the terminal output of the `composer install` command. It lists 114 packages to be installed, including voku/portable-ascii, symfony/polyfill-php80, symfony/polyfill-mbstring, symfony/polyfill-ctype, phpoption/phpoption, graham-campbell/result-type, vlucas/phpdotenv, symfony/css-selector, tijsverkoyen/css-to-inline-styles, symfony/var-dumper, symfony/polyfill-uuid, symfony/uid, symfony/routing, symfony/process, symfony/polyfill-php72, symfony/polyfill-intl-normalizer, symfony/polyfill-intl-idn, symfony/mime, psr/container, psr/event-dispatcher, and psr/log. The output shows the progress of installing each package.



The screenshot shows the continuation of the `composer install` output. It lists the remaining packages to be installed: myclabs/deep-copy, doctrine/instantiator, phpunit/phpunit, spatie/backtrace, spatie/flare-client-php, spatie/ignition, and spatie/laravel-ignition. The output shows the progress of installing each package, including the generation of optimized autoload files and the discovery of packages.

e) Buat kunci aplikasi dengan menggunakan perintah terminal :

`php artisan key:generate`



```
laravel/sail ..... DONE
laravel/sanctum ..... DONE
laravel/tinker ..... DONE
nesbot/carbon ..... DONE
nunomaduro/collision ..... DONE
nunomaduro/termwind ..... DONE
spatie/laravel-ignition ..... DONE

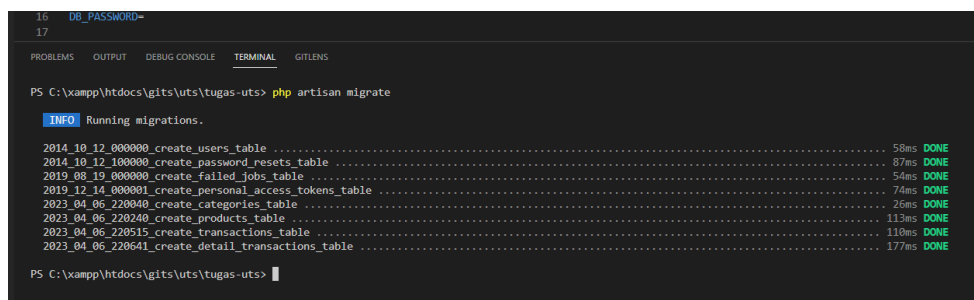
83 packages you are using are looking for funding.
Use the "composer fund" command to find out more!
PS C:\xampp\htdocs\gits\uts\tugas-uts> cp .env.example .env
PS C:\xampp\htdocs\gits\uts\tugas-uts> php artisan key:generate

[INFO] Application key set successfully.

PS C:\xampp\htdocs\gits\uts\tugas-uts>
```

f) Migrate tabel mysql dengan menggunakan perintah terminal :

`php artisan migrate`



```
16 DB_PASSWORD=
17

PS C:\xampp\htdocs\gits\uts\tugas-uts> php artisan migrate

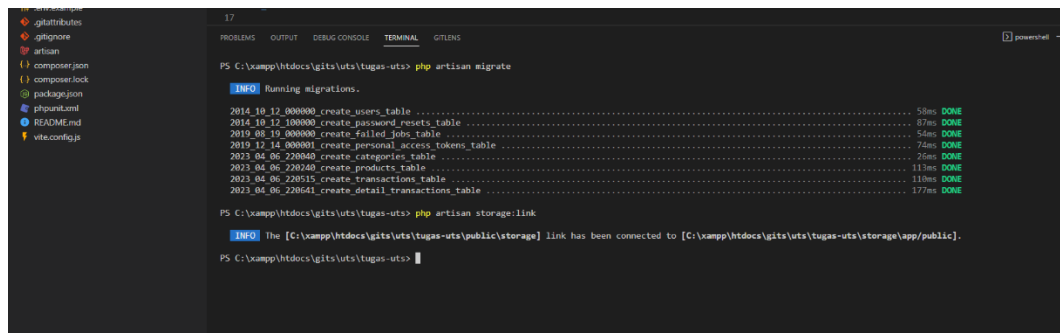
[INFO] Running migrations.

2014_10_12_000000_create_users_table ..... 58ms DONE
2014_10_12_100000_create_password_resets_table ..... 87ms DONE
2019_08_19_000000_create_failed_jobs_table ..... 54ms DONE
2019_12_14_000001_create_personal_access_tokens_table ..... 74ms DONE
2023_04_06_220040_create_categories_table ..... 26ms DONE
2023_04_06_220240_create_products_table ..... 113ms DONE
2023_04_06_220515_create_transactions_table ..... 110ms DONE
2023_04_06_220641_create_detail_transactions_table ..... 177ms DONE

PS C:\xampp\htdocs\gits\uts\tugas-uts>
```

g) Koneksikan storage ke folder public dengan menggunakan perintah terminal :

`php artisan storage:link`



```
17

PS C:\xampp\htdocs\gits\uts\tugas-uts> php artisan migrate

[INFO] Running migrations.

2014_10_12_000000_create_users_table ..... 58ms DONE
2014_10_12_100000_create_password_resets_table ..... 87ms DONE
2019_08_19_000000_create_failed_jobs_table ..... 54ms DONE
2019_12_14_000001_create_personal_access_tokens_table ..... 74ms DONE
2023_04_06_220040_create_categories_table ..... 26ms DONE
2023_04_06_220240_create_products_table ..... 113ms DONE
2023_04_06_220515_create_transactions_table ..... 110ms DONE
2023_04_06_220641_create_detail_transactions_table ..... 177ms DONE

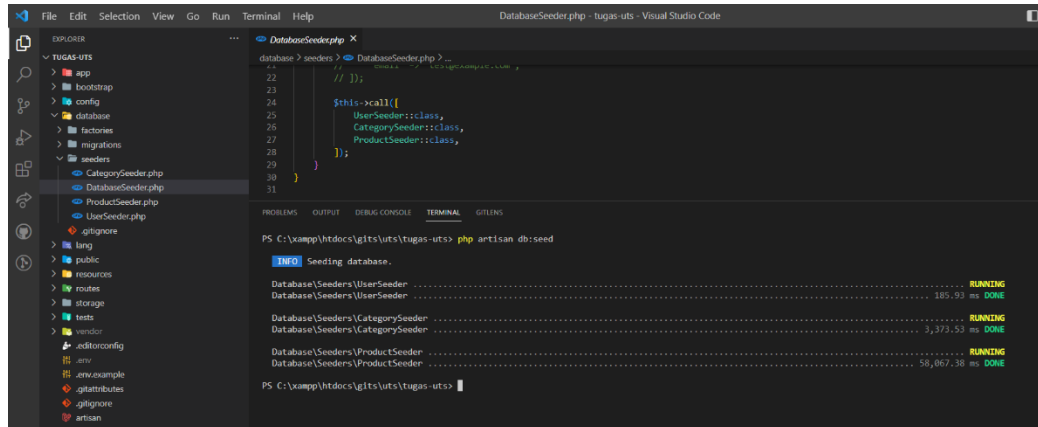
PS C:\xampp\htdocs\gits\uts\tugas-uts> php artisan storage:link

[INFO] The [C:\xampp\htdocs\gits\uts\tugas-uts\public\storage] link has been connected to [C:\xampp\htdocs\gits\uts\tugas-uts\storage\app\public].

PS C:\xampp\htdocs\gits\uts\tugas-uts>
```

- h) Generate data dummy menggunakan seeder dengan menggunakan perintah terminal :

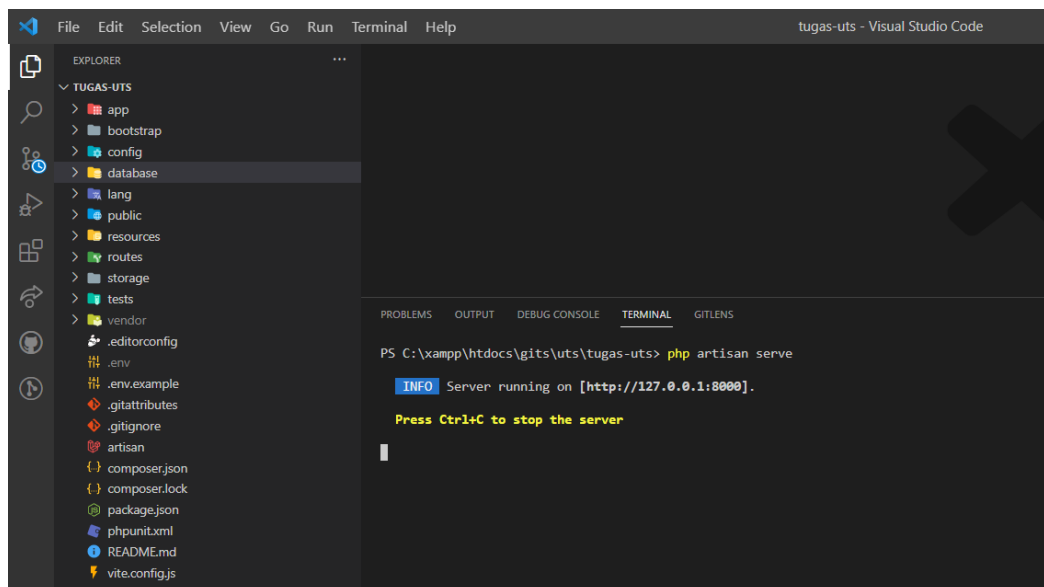
`php artisan db:seed`



The screenshot shows the Visual Studio Code interface. On the left, the Explorer pane displays the project structure of 'TUGAS-UTS', with the 'seeds' folder expanded. The 'DatabaseSeeder.php' file is selected. The main editor shows the content of 'DatabaseSeeder.php', which includes a call to the 'call' method of the 'DatabaseSeeder' class, passing an array of seeders: 'UserSeeder', 'CategorySeeder', and 'ProductSeeder'. The bottom panel shows the 'TERMINAL' tab with the command 'PS C:\xampp\htdocs\gits\uts\tugas-uts> php artisan db:seed'. The output shows the progress of seeding the database, with each seeder (UserSeeder, CategorySeeder, ProductSeeder) being processed and completed successfully, indicated by 'RUNNING' and 'DONE' status and execution times.

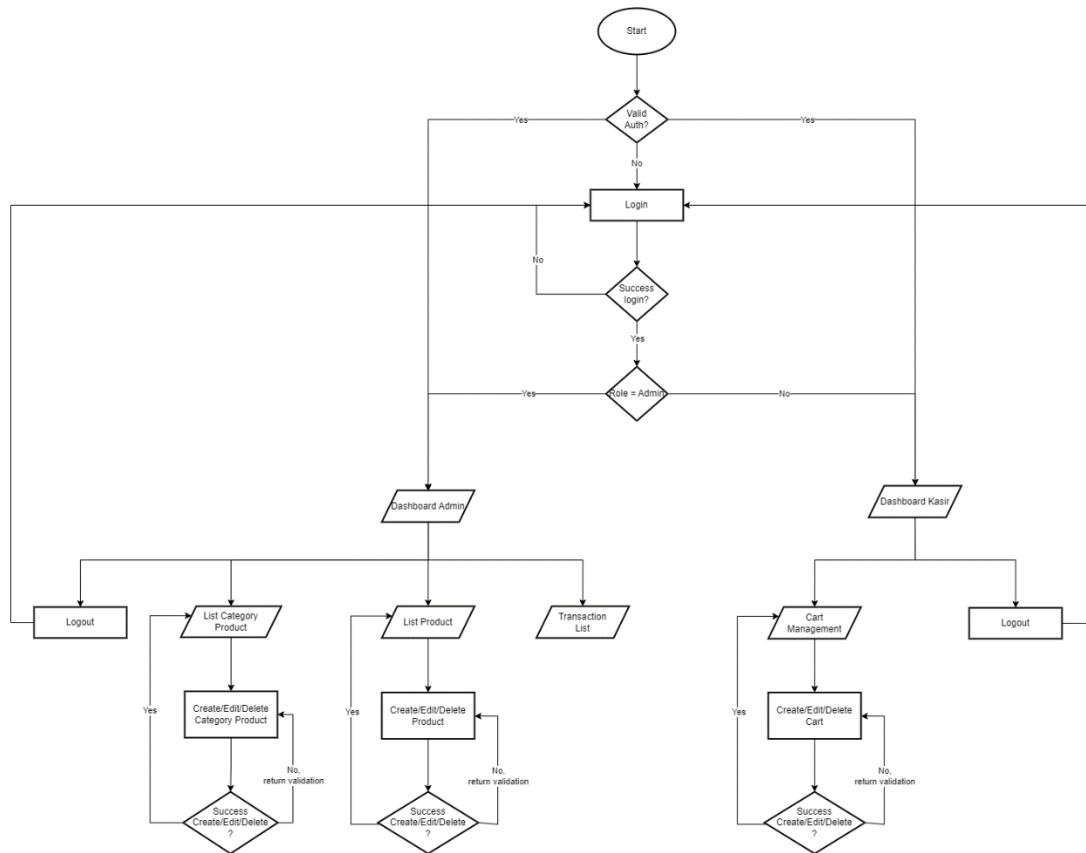
- i) Jalankan server laravel dengan menggunakan perintah terminal :

`php artisan serve`

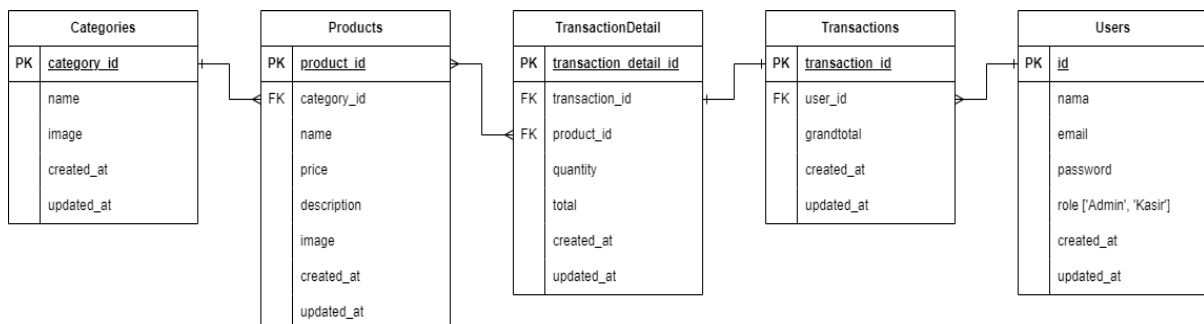


The screenshot shows the Visual Studio Code interface. On the left, the Explorer pane displays the project structure of 'TUGAS-UTS', with the 'database' folder expanded. The main editor is empty. The bottom panel shows the 'TERMINAL' tab with the command 'PS C:\xampp\htdocs\gits\uts\tugas-uts> php artisan serve'. The output shows the server starting, with the message 'INFO Server running on [http://127.0.0.1:8000]'. Below this, it says 'Press Ctrl+C to stop the server'.

4. Perancangan Flowchart Sistem

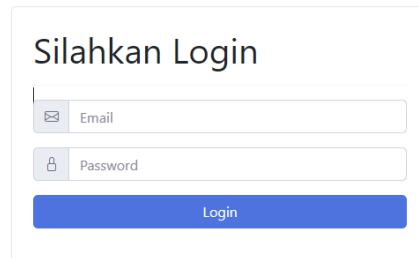


5. Perancangan Entity Relationship Diagram (ERD)



6. Screenshot Aplikasi

1.1 Login Admin

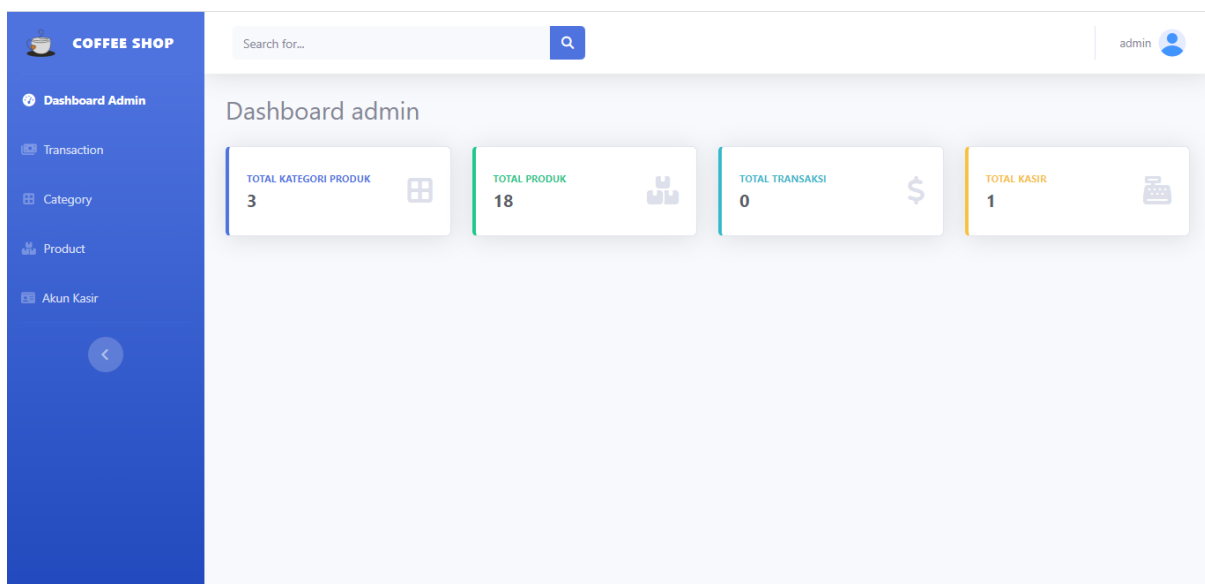


The screenshot shows a login form titled "Silahkan Login". It contains two input fields: "Email" with an envelope icon and "Password" with a lock icon. Below the fields is a blue "Login" button.

Gambar 6. 1.1 Login Admin

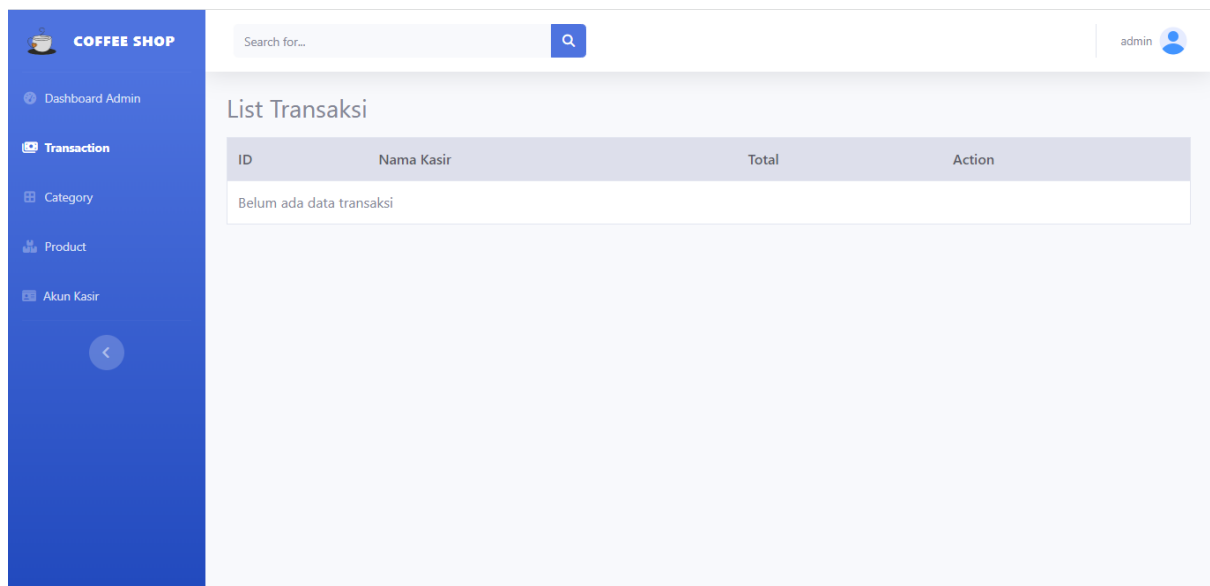
1.2 Admin/Dashboard

Dashboard admin merupakan tampilan atau antarmuka pengguna yang dirancang khusus untuk memudahkan administrator dalam mengelola suatu sistem atau aplikasi. Didalam dashboard admin terdapat total kategori produk, total produk, total transaksi, dan total kasir.



Gambar 6. 1.2 Admin/Dashboard

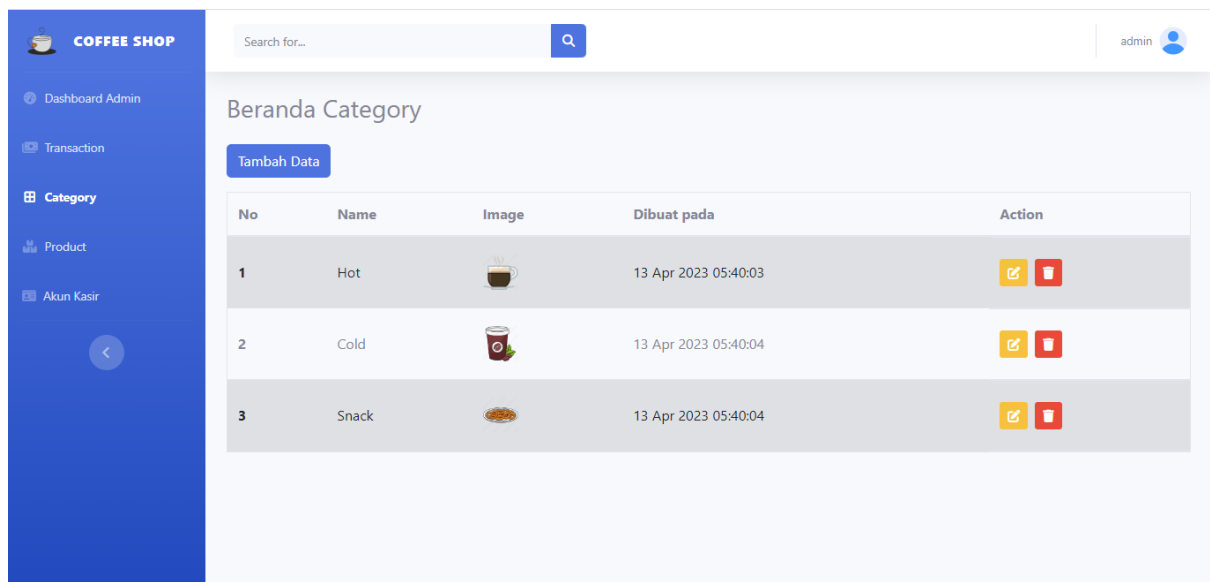
1.3 Admin/ Transaction



Gambar 6. 1.3 Admin/Transaction

1.4 Admin/Category

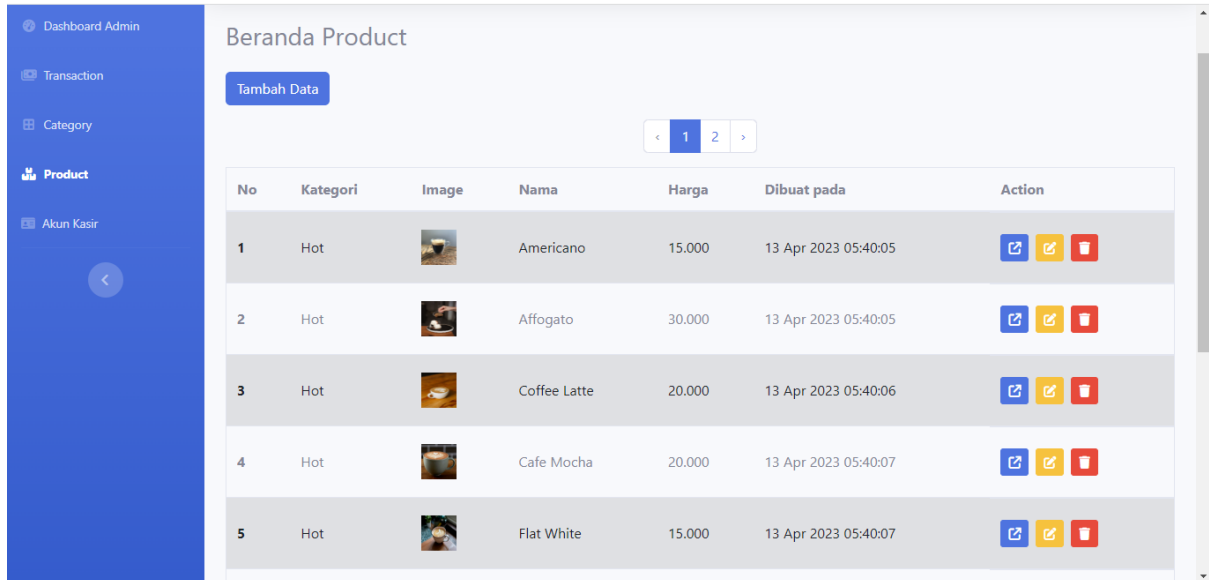
Pada halaman admin/category, dimana admin dapat menambah, mengedit, atau menghapus kategori.



Gambar 6. 1.4 Admin/Category

1.5 Admin/Product

Pada halaman admin/product, dimana admin dapat menambah, mengedit, atau menghapus product.



Dashboard Admin

Transaction

Category





















Product

Akun Kasir

Beranda Product

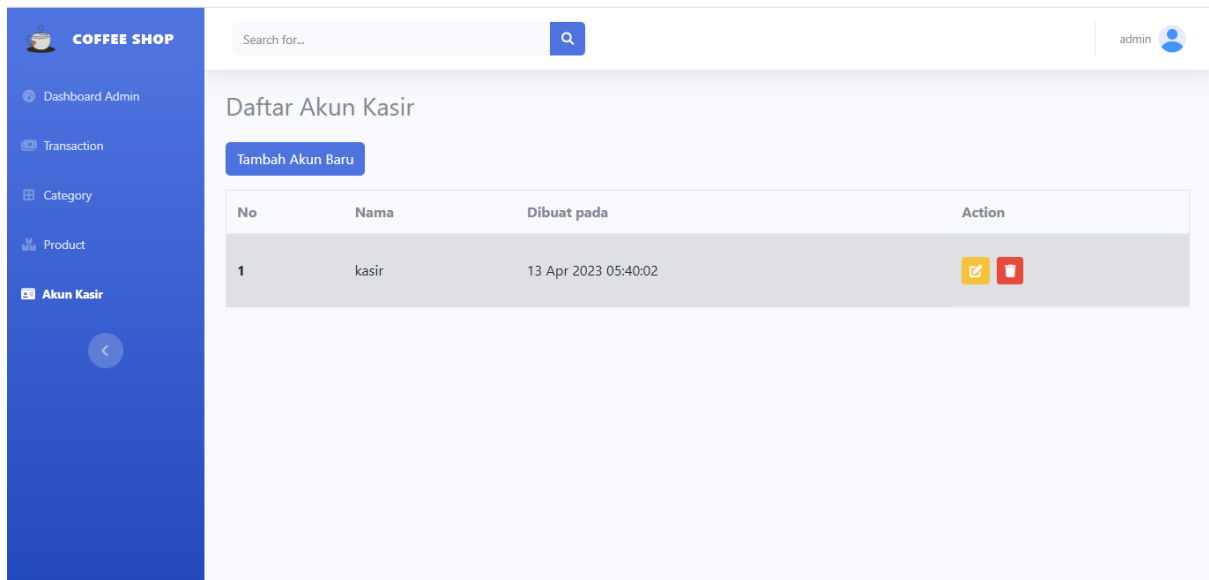
Tambah Data

< 1 2 >

No	Kategori	Image	Nama	Harga	Dibuat pada	Action
1	Hot		Americano	15.000	13 Apr 2023 05:40:05	  
2	Hot		Affogato	30.000	13 Apr 2023 05:40:05	  
3	Hot		Coffee Latte	20.000	13 Apr 2023 05:40:06	  
4	Hot		Cafe Mocha	20.000	13 Apr 2023 05:40:07	  
5	Hot		Flat White	15.000	13 Apr 2023 05:40:07	  

Gambar 6. 1.5 Admin/Product

1.6 Akun Kasir



COFFEE SHOP

Search for...

admin

Dashboard Admin

Transaction



Category

Product

Akun Kasir

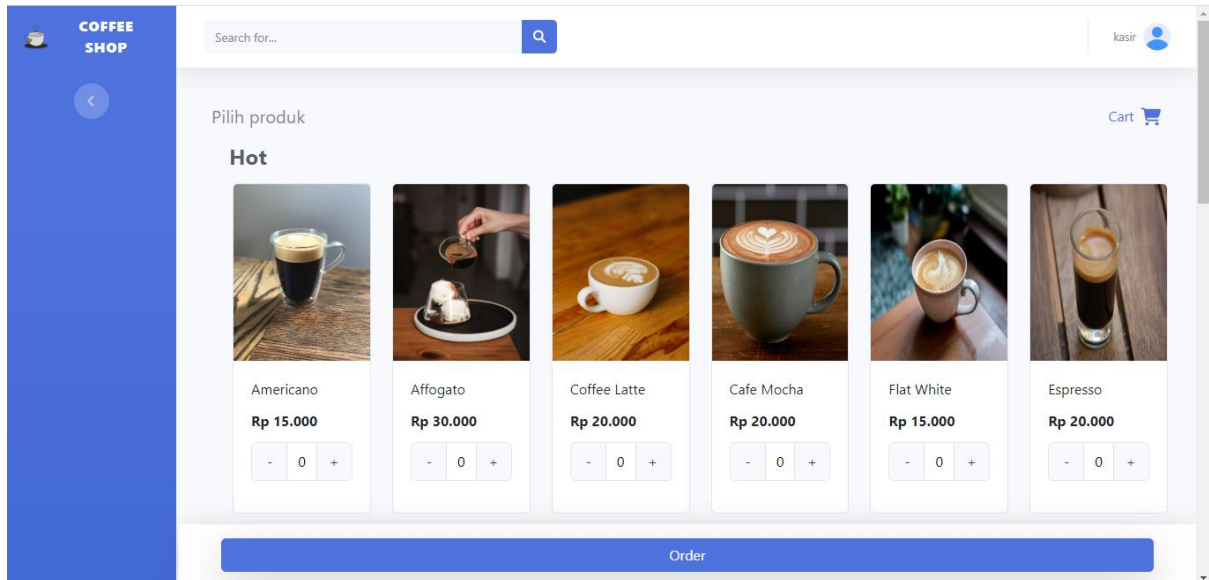
Daftar Akun Kasir

Tambah Akun Baru

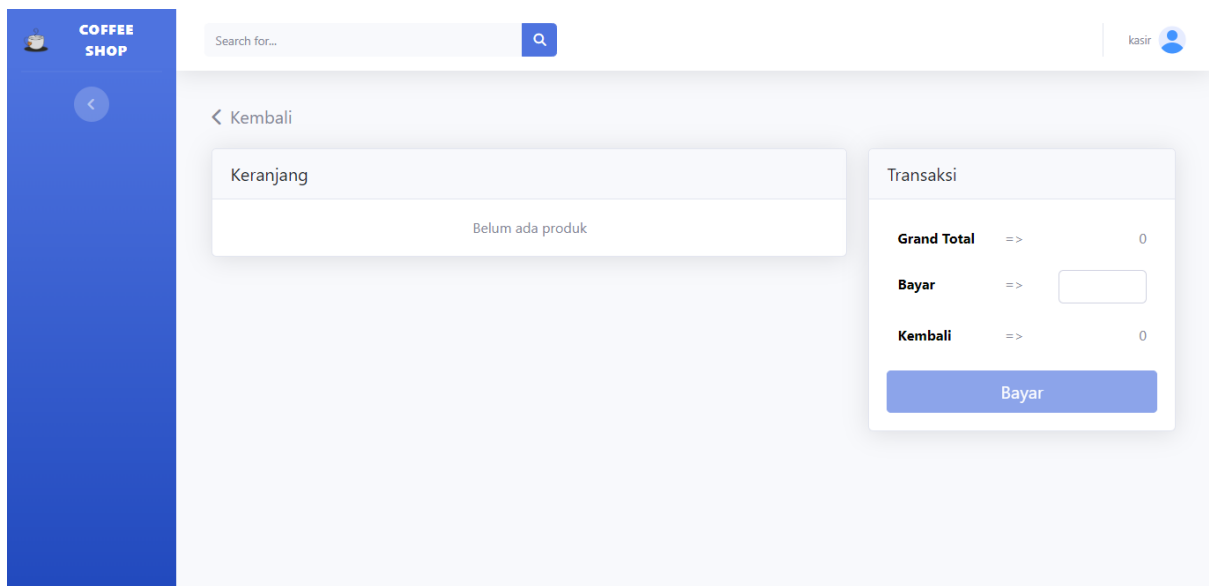
No	Nama	Dibuat pada	Action
1	kasir	13 Apr 2023 05:40:02	 

Gambar 6. 2.1 Akun Kasir

2.1 kasir/Pilih produk



Gambar 6. 2.1 kasir/Pilih produk



7. Test Case

No	Hasil yang diharapkan	Hasil yang diperoleh	keterangan
1	Login	Login berhasil dibuat	Valid
2	Dashboard admin	Dashboard admin berhasil dibuat	Valid
3	Transaction	Transaction berhasil dibuat	Valid
4	Admin/tambah data kategori	Tambah data berhasil dibuat	Valid
5	Admin/edit kategori	Edit berhasil dibuat	Valid
6	Admin/ hapus kategori	Hapus berhasil dibuat	Valid
7	Admin/tambah data product	Tambah data berhasil dibuat	Valid
8	Admin/edit product	Edit berhasil dibuat	Valid
9	Admin/ hapus product	Hapus berhasil dibuat	Valid
10	Akun Kasir/tambah akun baru	Tambah akun baru berhasil dibuat	Valid
11	Akun Kasir/edit akun baru	Edit akun baru berhasil dibuat	Valid
12	Akun Kasir/hapus akun baru	Hapus akun baru berhasil dibuat	Valid
13	Kasir/pilih produk	Pilih produk berhasil dibuat	Valid
14	Kasir/ keranjang	Keranjang berhasil dibuat	Valid