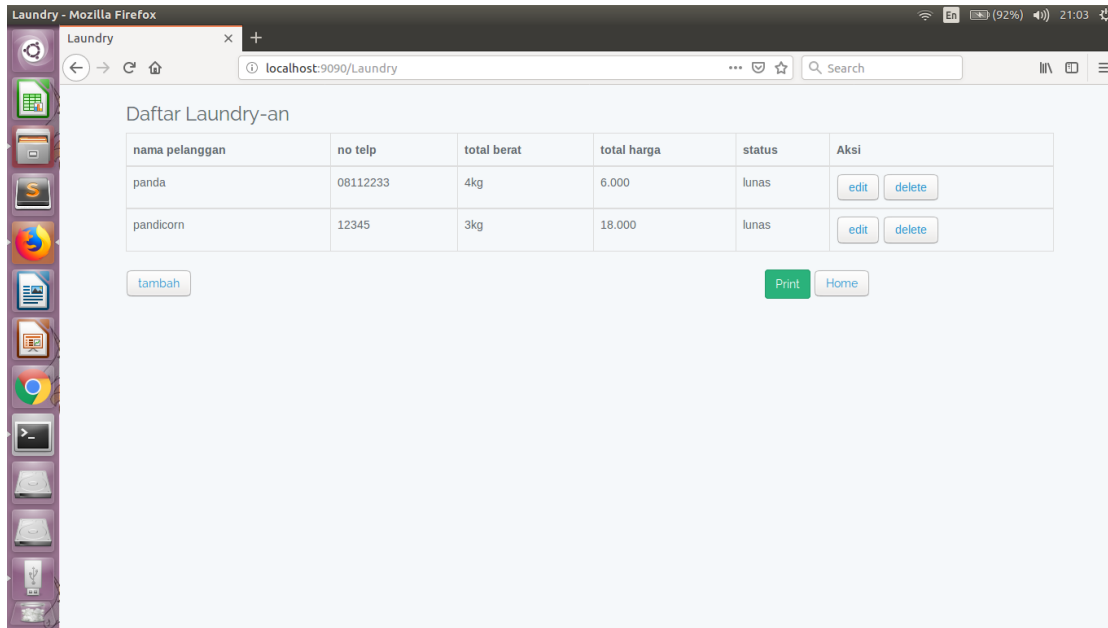


Tutorial Crud Application Laundry with MongoDB



- Crud sederhana dengan menggunakan connection MongoDB.

Lebih kurang kita akan membuat sebuah aplikasi web sederhana seperti gambar berikut :



Install MongoDB on Ubuntu 16.04

Langkah 1 : Importing the Public Key

Kunci GPG dari distributor perangkat lunak diperlukan oleh apt manager paket Ubuntu (Advanced Package Tool) untuk memastikan konsistensi dan keaslian paket. Jalankan perintah ini untuk mengimpor kunci MongoDB ke server.

```
cecil@cecil-X455LAB:~$ sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv 2930ADAE8CAF5059EE73BB4B58712A2291FA4AD5
[sudo] password for cecil:
Executing: /tmp/tmp.x5uqSenQzr/gpg.1.sh --keyserver
hkp://keyserver.ubuntu.com:80
--recv
2930ADAE8CAF5059EE73BB4B58712A2291FA4AD5
gpg: requesting key 91FA4AD5 from hkp server keyserver.ubuntu.com
gpg: key 91FA4AD5: public key "MongoDB 3.6 Release Signing Key <packaging@mongodb.com>" imported
gpg: Total number processed: 1
gpg:                imported: 1 (RSA: 1)
```

Langkah 2 - Create source list file MongoDB

Buat file daftar MongoDB di `/etc/apt/sources.list.d/` dengan perintah ini :

➤ `sudo rm /etc/apt/sources.list.d/mongodb*.list`

Langkah 3 - Update the repository

perbarui repositori dengan perintah apt :

➤ `sudo apt-get update`

Step 4 - Install MongoDB

Sekarang Anda dapat menginstal MongoDB dengan mengetikkan perintah ini :

```
cecil@cecil-X45SLAB:~$ sudo apt install mongodb-org
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.4.0-101 linux-headers-4.4.0-101-generic linux-headers-4.4.0-130 linux-headers-4.4.0-130-generic
  linux-image-4.4.0-101-generic linux-image-4.4.0-130-generic linux-image-extra-4.4.0-101-generic linux-image-extra-4.4.0-130-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
The following NEW packages will be installed:
  mongodb-org mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
0 upgraded, 5 newly installed, 0 to remove and 464 not upgraded.
Need to get 51,7 MB of archives.
After this operation, 215 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-shell amd64 3.2.21 [5.276 kB]
2% [1 mongodb-org-shell 1.405 kB/5.276 kB 27%] 6.731 B/s 2h 4min 38s^
Get:2 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-server amd64 3.2.21 [10,0 MB]
Get:3 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-mongos amd64 3.2.21 [4.680 kB]
Get:4 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org-tools amd64 3.2.21 [31,8 MB]
Get:5 http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.2/multiverse amd64 mongodb-org amd64 3.2.21 [3.560 B]
Fetched 51,7 MB in 25min 12s (34,2 kB/s)
Selecting previously unselected package mongodb-org-shell.
(Reading database ... 294000 files and directories currently installed.)
Preparing to unpack .../mongodb-org-shell_3.2.21_amd64.deb ...
Unpacking mongodb-org-shell (3.2.21) ...
Selecting previously unselected package mongodb-org-server.
Preparing to unpack .../mongodb-org-server_3.2.21_amd64.deb ...
Unpacking mongodb-org-server (3.2.21) ...
Selecting previously unselected package mongodb-org-mongos.
Preparing to unpack .../mongodb-org-mongos_3.2.21_amd64.deb ...
Unpacking mongodb-org-mongos (3.2.21) ...
Selecting previously unselected package mongodb-org-tools.
Preparing to unpack .../mongodb-org-tools_3.2.21_amd64.deb ...
```

Kita harus membuat file layanan sistem MongoDB baru di direktori `/lib/systemd/system/`. Pergi ke direktori itu dan buat file layanan MongoDB baru `'mongod.service'` dengan editor vim

➤ *Cd /lib/systemd/system/vim mongod.service*

Paste skrip di bawah ini :

➤ *[Unit]*

Description=High-performance, schema-free document-oriented database

After=network.target

Documentation=https://docs.mongodb.org/manual

[Service]

User=mongodb

Group=mongodb

ExecStart=/usr/bin/mongod --quiet --config /etc/mongod.conf

[Install]

WantedBy=multi-user.target

Simpan file dan keluar.

Sekarang perbarui layanan systemd dengan perintah di bawah ini :

➤ *systemctl daemon-reload*

Mulai MongoDB dan tambahkan sebagai layanan yang akan dimulai saat boot :

➤ *systemctl start mongod*

➤ *systemctl enable mongod*

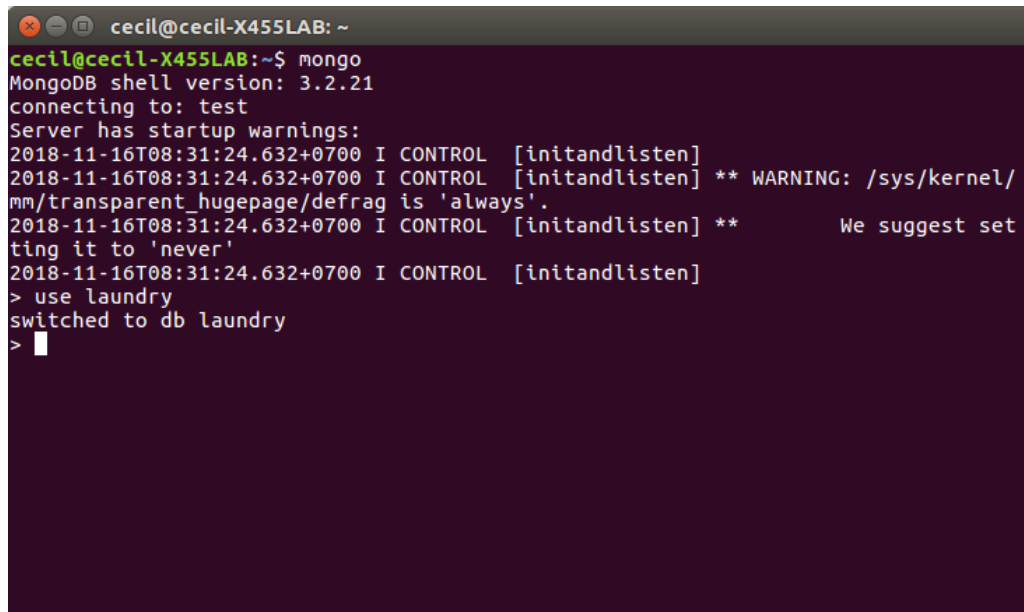
Sekarang periksa bahwa MongoDB telah dimulai pada port 27017 dengan perintah netstat

➤ *netstat -plntu*

Configure MongoDB To Laravel

Langkah 1- Open mongo shell

Sebelum Anda mengatur nama pengguna dan kata sandi untuk MongoDB, Anda perlu membuka shell MongoDB di server Anda. Anda dapat masuk dengan mengetik:

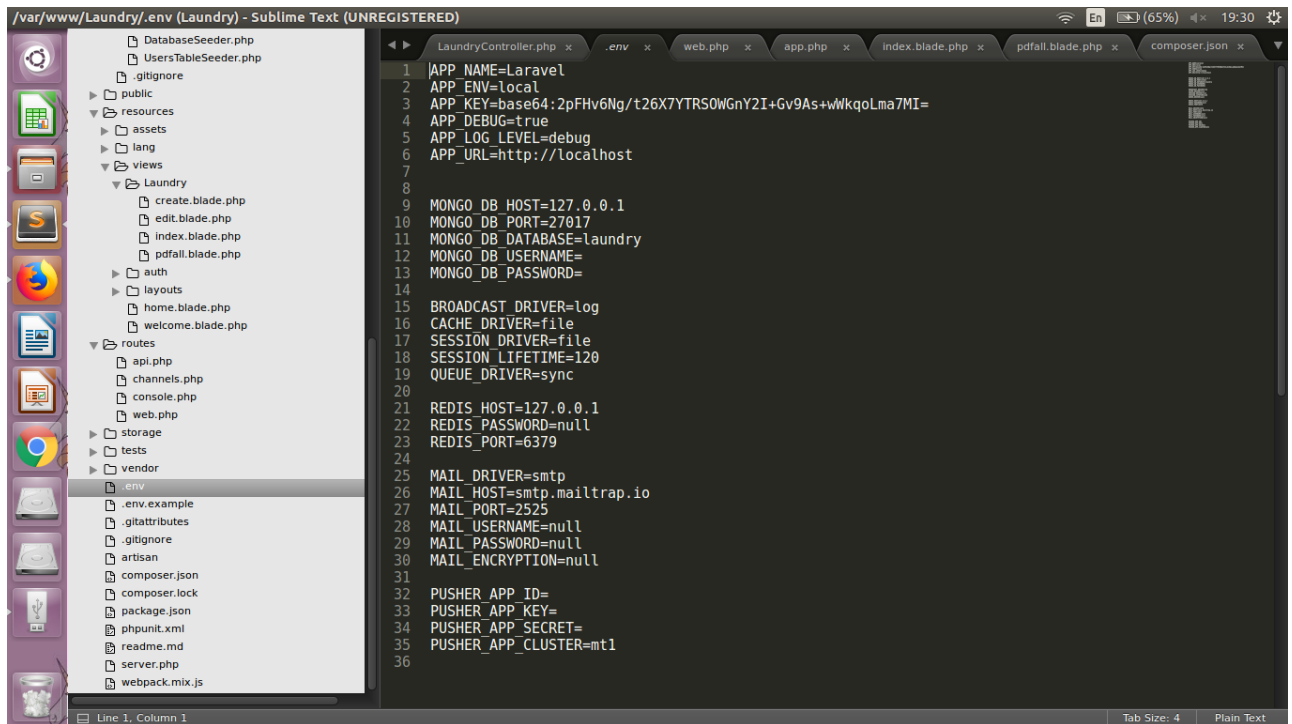
A screenshot of a terminal window with a dark background. The window title is 'cecil@cecil-X455LAB: ~'. The user has entered the command 'mongo'. The terminal output shows the MongoDB shell version (3.2.21) and the connection to a 'test' database. It displays several startup warnings from the system's initandlisten process, including a warning about the 'transparent_hugepage/defrag' setting. The user then enters the command 'use laundry', and the terminal shows 'switched to db laundry'. The prompt '>' is visible at the end of the line.

```
cecil@cecil-X455LAB: ~  
cecil@cecil-X455LAB:~$ mongo  
MongoDB shell version: 3.2.21  
connecting to: test  
Server has startup warnings:  
2018-11-16T08:31:24.632+0700 I CONTROL [initandlisten]  
2018-11-16T08:31:24.632+0700 I CONTROL [initandlisten] ** WARNING: /sys/kernel/  
mm/transparent_hugepage/defrag is 'always'.  
2018-11-16T08:31:24.632+0700 I CONTROL [initandlisten] ** We suggest set  
ting it to 'never'  
2018-11-16T08:31:24.632+0700 I CONTROL [initandlisten]  
> use laundry  
switched to db laundry  
> 
```

Disini MongoDBnya tidak diberi username dan juga password ya, jadi langsung ke databasenya yaitu “laundry”

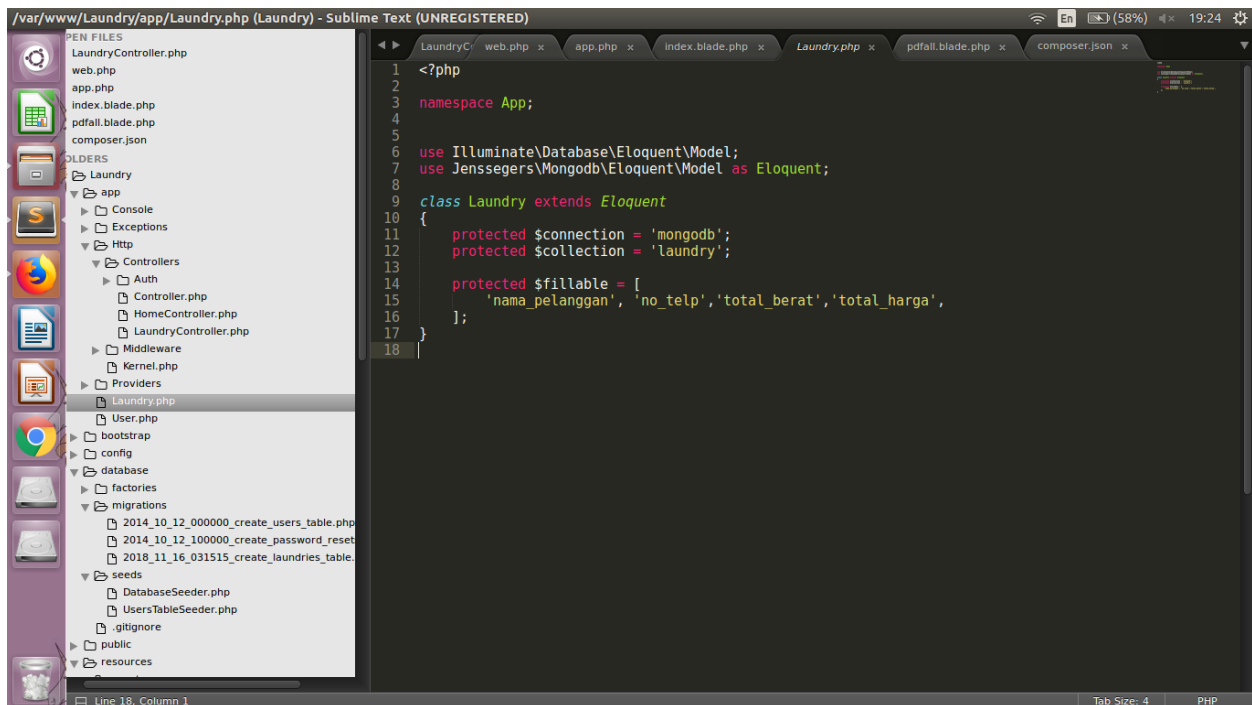
Langkah 2- Folder .env

Ubah dan sesuaikan dengan data yang tertera di PC masing-masing ya



Langkah 3- Folder Laundry.php

Untuk mengkoneksikan mongodb ke laravel harus ada beberapa sourcode yang ditambahkan agar aplikasi bisa di run seperti capture dibawah ini :



Langkah 4- Folder App.php

Untuk menjalankan perintah mongodb di laravel maka ditambahkan sourcode berikut di dalam folder app.php :

➤ *Jenssegers\Mongodb\MongodbServiceProvider::class,*

Dan pengkoneksian mongodb ke laravel pun selesai, sekarang lanjut ketahap pembuatan Crud Laundry With MongoDB.

Crud sederhana aplikasi Laundry

Langkah 1- Membuat Model migration

Untuk membuat migration tinggal ketik saja command di terminal

- *php artisan make:model laundry -m*
- *php artisan make:controller LaundryController*

setelah menjalankan command tersebut di terminal kalian bisa langsung mengisi folder Database > Migration > Nama model yang baru saja dibuat

```
use Illuminate\Support\Facades\Schema;  
use Jenssegers\Mongodb\Schema\Blueprint;  
use Illuminate\Database\Migrations\Migration;
```

Dan kalian tambahkan code seperti *use Jenssegers\Mongodb\Schema\Blueprint;*

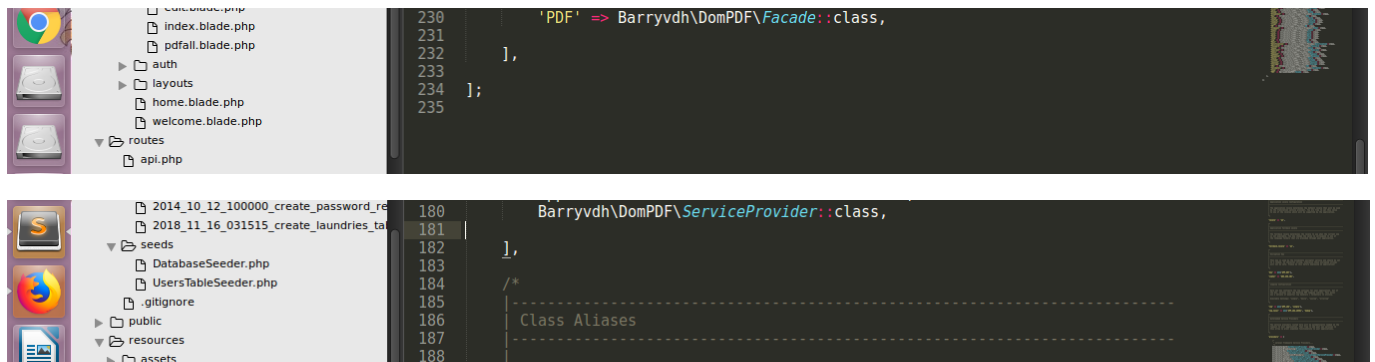
Selebihnya kalian akan membuat CRUD seperti biasanya.

Langkah 2- Membuat print out/pdf

Untuk membuat pdf kalian perlu terlebih dahulu mendownloadnya, berikut sourcodenya

```
cecil@cecil-X455LAB: /var/www/Laundry$ composer require barryvdh/laravel-dompdf
Cannot create cache directory /home/cecil/.composer/cache/repo/https---packagist.org/, or directory is not writable. Proceeding without cache
Cannot create cache directory /home/cecil/.composer/cache/files/, or directory is not writable. Proceeding without cache
Using version ^0.8.3 for barryvdh/laravel-dompdf
./composer.json has been updated
Cannot create cache directory /home/cecil/.composer/cache/repo/https---packagist.org/, or directory is not writable. Proceeding without cache
Cannot create cache directory /home/cecil/.composer/cache/files/, or directory is not writable. Proceeding without cache
Loading composer repositories with package information
Updating dependencies (including require-dev)
- Installing sabberworm/php-css-parser (8.1.0)
  Downloading: 100%
- Installing phenx/php-svg-lib (v0.3.2)
  Downloading: 100%
- Installing phenx/php-font-lib (0.5.1)
  Downloading: 100%
- Installing dompdf/dompdf (v0.8.2)
  Downloading: 100%
- Installing barryvdh/laravel-dompdf (v0.8.3)
  Downloading: 100%
Writing lock file
Generating optimized autoload files
```

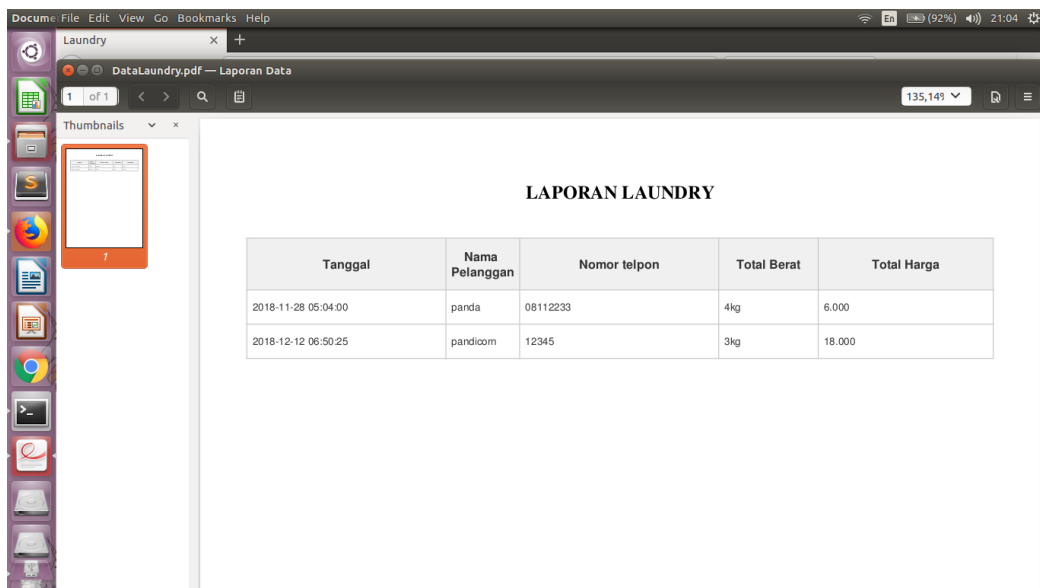
Setelah downloadnya selesai secara sempurna maka tahap selanjutnya adalah tambahkan sourcode berikut kedalam folder App.php



```
230 'PDF' => Barryvdh\DomPDF\Facade::class,
231
232 1,
233
234 ];
235

180 Barryvdh\DomPDF\ServiceProvider::class,
181
182 1,
183
184 /*
185
186 Class Aliases
187
188
```

Dan seperti inilah hasil print out / pdf-nya



Selesai sudah Tutorial Crud Application Laundry with MongoDB

