

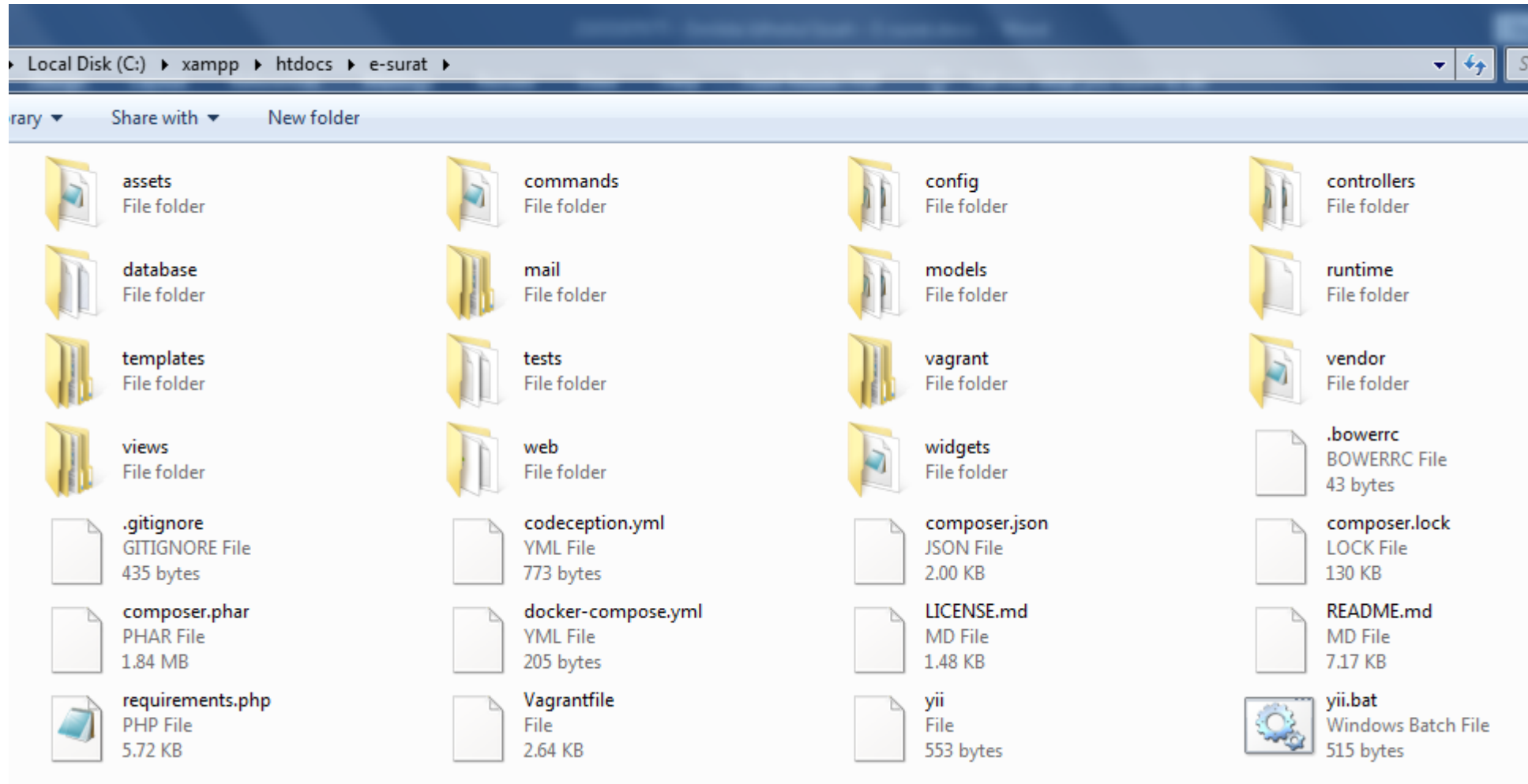


E-SURAT MENGGUNAKAN FRAMEWORK Yii2 DENGAN TOOLS GII

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MATA KULIAH : REKAYASA PERANGKAT LUNAK
2103197075 – EMILDA IDHOTUL IZZAH
D3 IT A PJJ AK 2019

- Install yii2 basic dengan nama direktori 'e-surat', berikut tampilan isi dari folder tersebut.



- Membuat database dengan nama 'e-surat' pada tools adminer. Berikut tampilan database setelah dibuat dan sudah berisikan beberapa tabel dari import file esurat.sql.

localhost/db_adminer/adminer-4.6.2.php

Language: English MySQL » Server » Database: e-surat Logout

Adminer 4.6.2

DB: e-surat

SQL command Import Export Create table

select appoval_rules_node
select approval_rules_edge
select approval_surat_keluar
select disposisi_rules_edge
select disposisi_rules_node
select disposisi_surat_masuk
select golongan
select instansi
select jabatan
select jabatan_users
select kategori_surat
select sifat
select surat_keluar
select surat_masuk
select users

Database: e-surat

Alter database Database schema Privileges

Tables and views

Search data in tables (15)

<input type="checkbox"/>	Table	Engine?	Collation?	Data Length?	Index Length?	Data Free?	Auto Increment?	Rows?	Comment?
<input type="checkbox"/>	approval_rules_node	InnoDB	utf8_general_ci	16,384	32,768	0	1	0	
<input type="checkbox"/>	approval_rules_edge	InnoDB	utf8_general_ci	16,384	32,768	0	1	0	
<input type="checkbox"/>	approval_surat_keluar	InnoDB	utf8_general_ci	16,384	49,152	0	1	0	
<input type="checkbox"/>	disposisi_rules_edge	InnoDB	utf8_general_ci	16,384	32,768	0	1	0	
<input type="checkbox"/>	disposisi_rules_node	InnoDB	utf8_general_ci	16,384	32,768	0	1	0	
<input type="checkbox"/>	disposisi_surat_masuk	InnoDB	utf8_general_ci	16,384	49,152	0	1	0	
<input type="checkbox"/>	golongan	InnoDB	utf8_general_ci	16,384	0	0	1	0	
<input type="checkbox"/>	instansi	InnoDB	utf8_general_ci	16,384	0	0	1	0	
<input type="checkbox"/>	jabatan	InnoDB	utf8_general_ci	16,384	16,384	0	1	0	
<input type="checkbox"/>	jabatan_users	InnoDB	utf8_general_ci	16,384	65,536	0	1	0	
<input type="checkbox"/>	kategori_surat	InnoDB	utf8_general_ci	16,384	0	0		0	
<input type="checkbox"/>	sifat	InnoDB	utf8_general_ci	16,384	0	0	1	0	
<input type="checkbox"/>	surat_keluar	InnoDB	utf8_general_ci	16,384	81,920	0	1	0	
<input type="checkbox"/>	surat_masuk	InnoDB	utf8_general_ci	16,384	65,536	0		0	

Selected (0)

Analyze Optimize Check Repair Truncate Drop

Move to other database: e-surat Move Copy

- Untuk membuat agar direktori dapat diakses melalui IP Address, prosesnya antara lain :

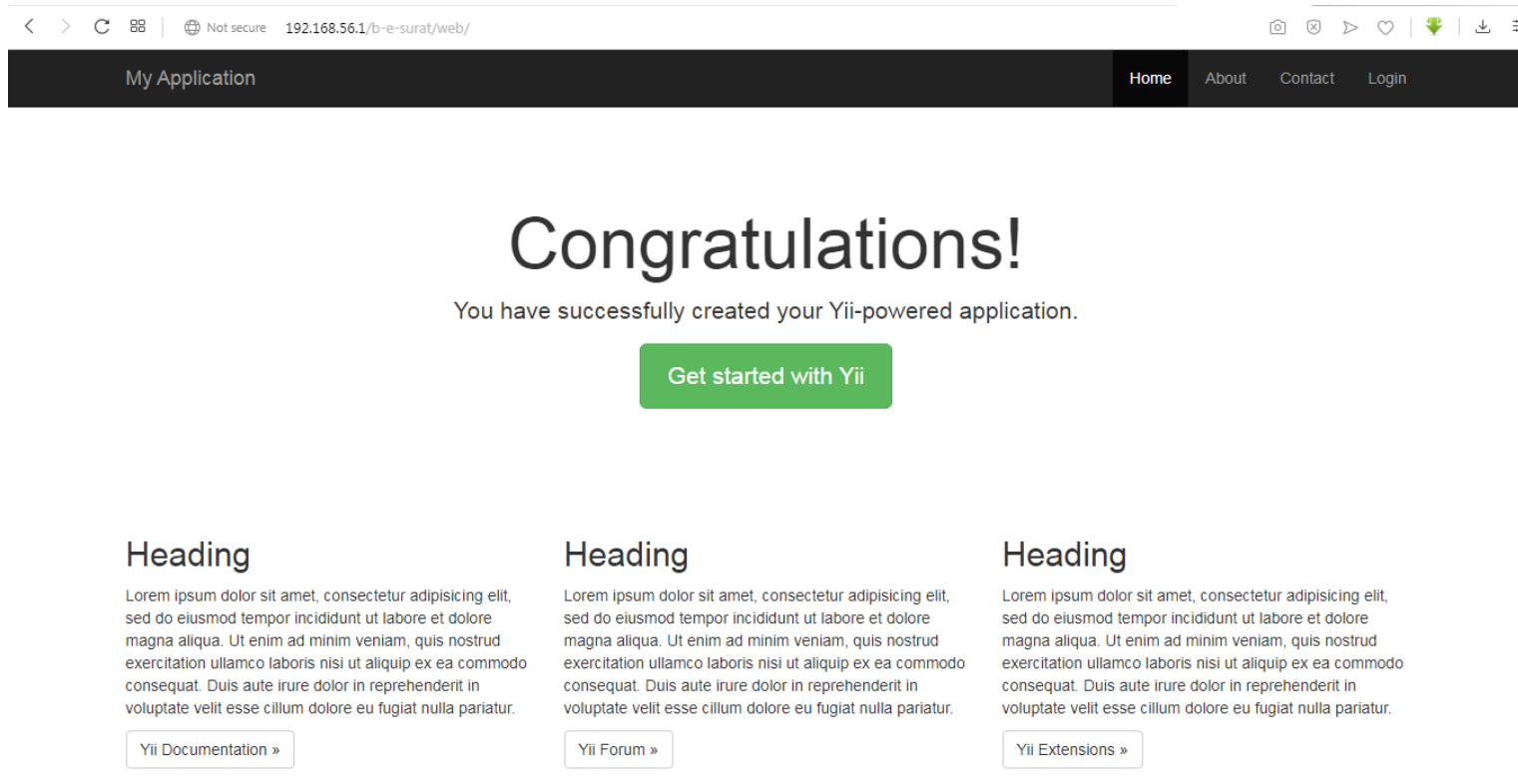
(a) Buka file web.php pada folder config,

```
C:\xampp\htdocs\e-surat\config\web.php (e-surat)
```

(b) Tambahkan IP yang digunakan,

```
84 /* 2103197075 - Emilda Idhotul Izzah  
85 Add IP Address */  
86 'allowedIPs' => ['127.0.0.1', '::1', '192.168.*.*', '192.168.56.1'],
```

(c) Jalankan web menggunakan IP yang telah di tambahkan sebelumnya. Selesai.



- Untuk mengaktifkan Pretty URL, prosesnya antara lain :

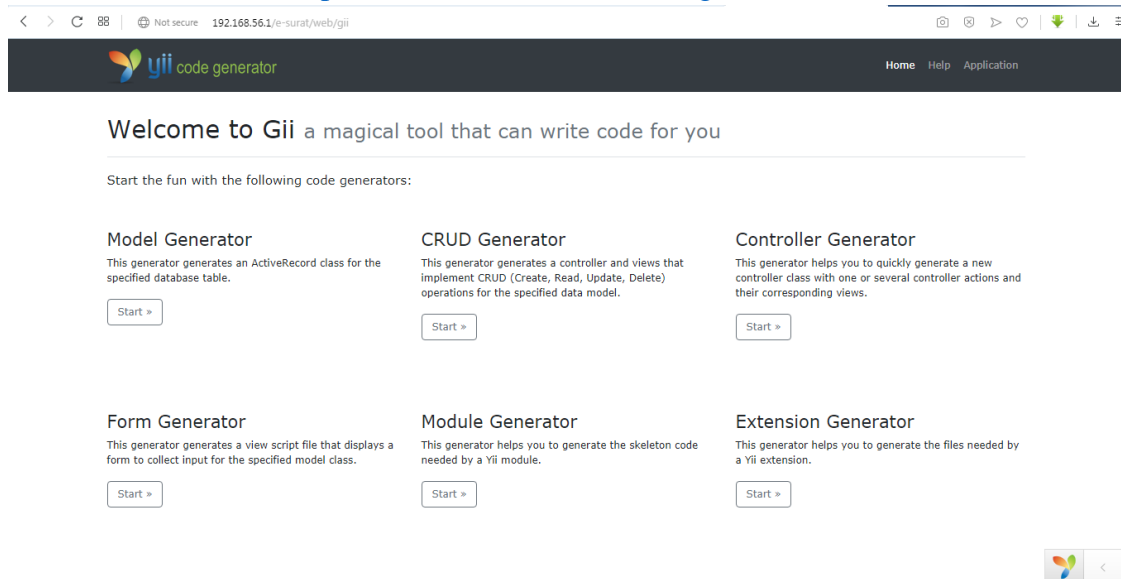
(a) Tambahkan kode berikut,

```
46      /* 2103197075 - Emilda Idhotul Izzah
47      Pretty URL */
48      'urlManager' => [
49          'enablePrettyUrl' => true,
50          'showScriptName' => false,
51          'rules' => [
52          ],
53      ],
```

(b) Buat file .htaccess dalam folder web, dan isi kode yang dibutuhkan,

```
1 RewriteRule ^(.*)$ $1/index.php [L]
2 RewriteCond %{REQUEST_FILENAME} !-d
3 RewriteCond %{REQUEST_FILENAME} !-f
4 RewriteRule . index.php [L]
```

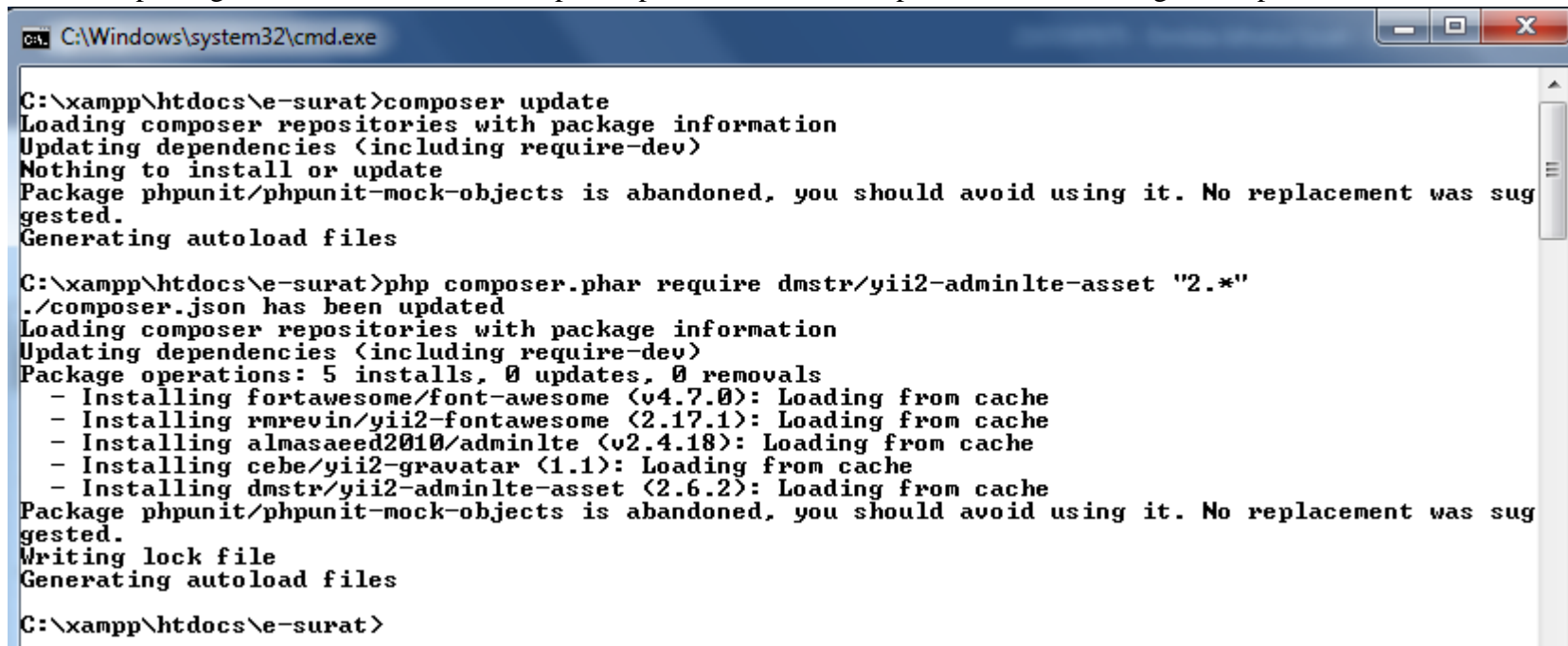
(c) Jalankan url berikut : <http://192.168.56.1/e-surat/web/gii>. Jika berhasil, maka akan menampilkan halaman seperti di bawah ini.



(d) Selesai.

- Implementasi custom gii, prosesnya adalah sebagai berikut :

(a) Install template, gambar di bawah ini menampilkan proses instalasi template AdminLTE dengan composer,



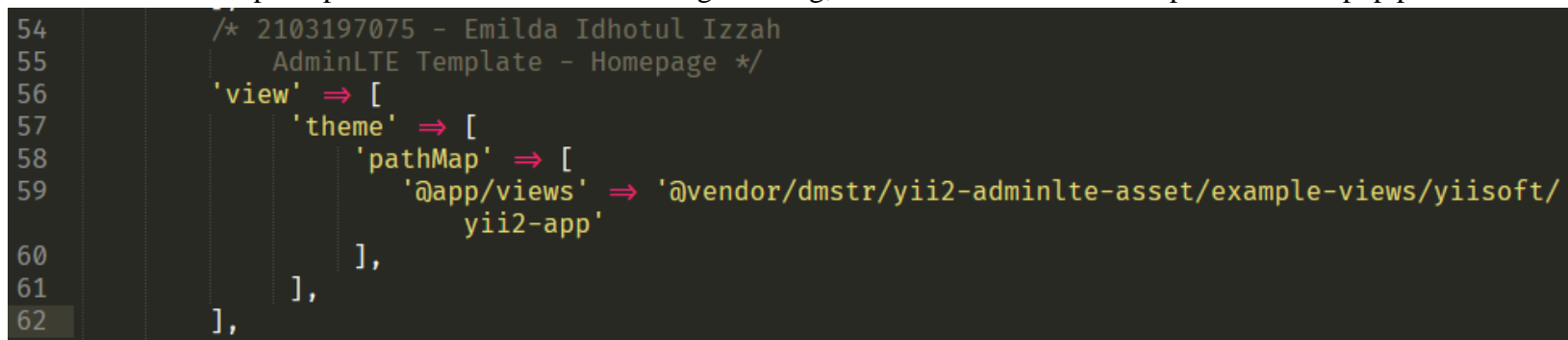
```
C:\Windows\system32\cmd.exe

C:\xampp\htdocs\e-surat>composer update
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Package phpunit/phpunit-mock-objects is abandoned, you should avoid using it. No replacement was suggested.
Generating autoload files

C:\xampp\htdocs\e-surat>php composer.phar require dmstr/yii2-adminlte-asset "2.*"
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 5 installs, 0 updates, 0 removals
- Installing fortawesome/font-awesome (v4.7.0): Loading from cache
- Installing rmrevin/yii2-fontawesome (2.17.1): Loading from cache
- Installing almasaeed2010/adminlte (v2.4.18): Loading from cache
- Installing cebe/yii2-gravatar (1.1): Loading from cache
- Installing dmstr/yii2-adminlte-asset (2.6.2): Loading from cache
Package phpunit/phpunit-mock-objects is abandoned, you should avoid using it. No replacement was suggested.
Writing lock file
Generating autoload files

C:\xampp\htdocs\e-surat>
```

(b) Untuk merubah tampilan pada halaman utama atau sebagai testing, ditambahkan kode berikut pada file web.php pada folder config,



```
54      /* 2103197075 - Emilda Idhotul Izzah
55         AdminLTE Template - Homepage */
56      'view' => [
57          'theme' => [
58              'pathMap' => [
59                  '@app/views' => '@vendor/dmstr/yii2-adminlte-asset/example-views/yiisoft/
                        yii2-app'
60              ],
61          ],
62      ],
```

(c) Ubah file-file yang dibutuhkan,

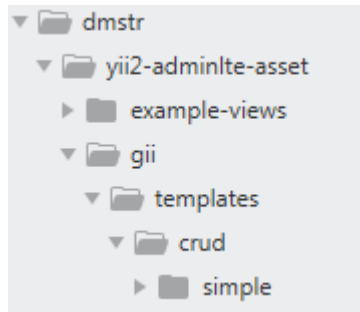
Berikut adalah kode untuk mengkustom warna pada template, terdapat pada file config > web.php

```
63      /* 2103197075 - Emilda Idhotul Izzah
64      AdminLTE Template - Change a skin */
65      'assetManager' => [
66          'bundles' => [
67              'dmstr\web\AdminLteAsset' => [
68                  'skin' => 'skin-green',
69              ],
70          ],
71      ],
```

Berikut adalah kode pada file views/layouts/main.php untuk mengkustom warna pada template.

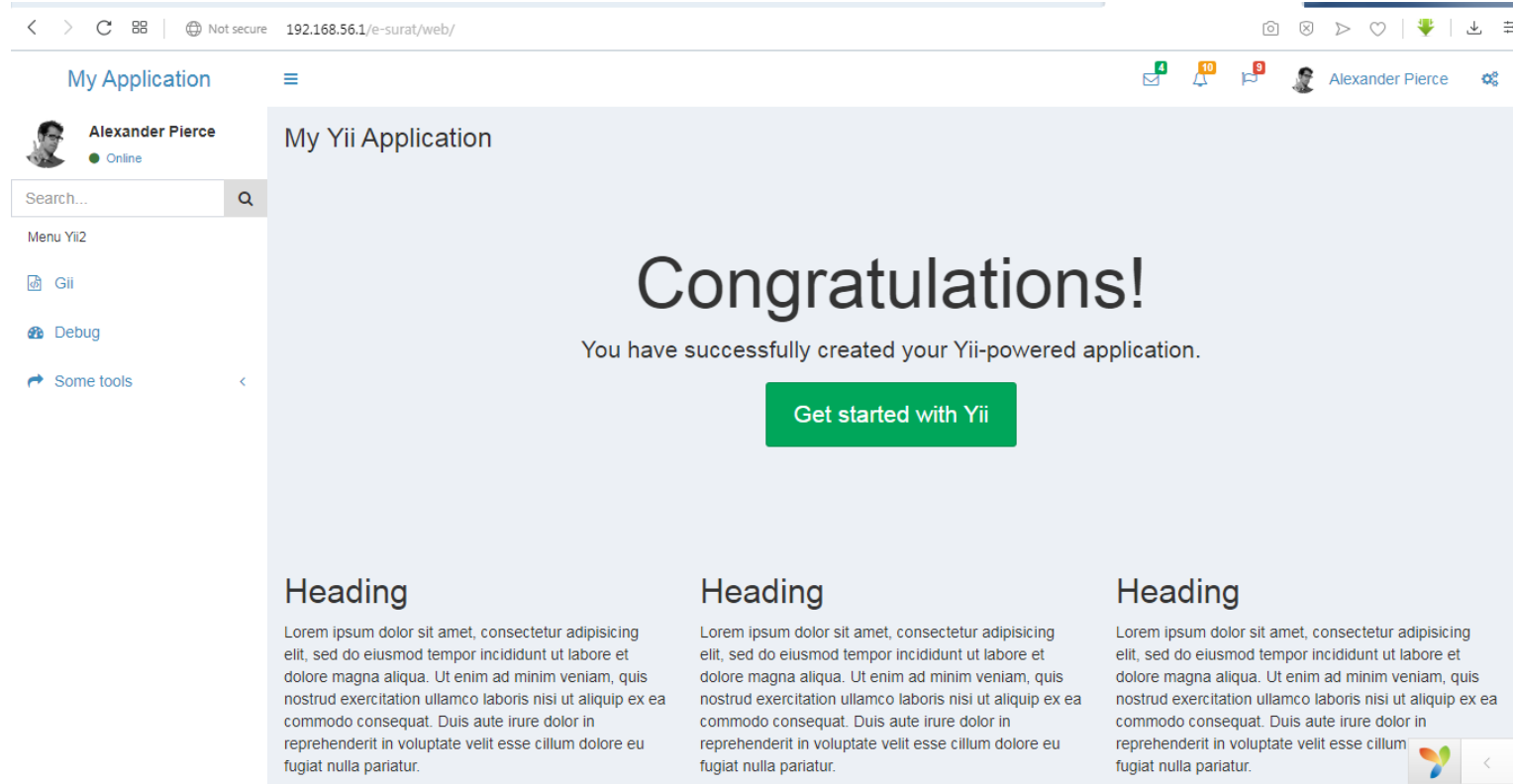
```
40      <!-- 2103197075 - Emilda Idhotul Izzah
41      AdminLTE Template - Add a custom skin -->
42      <body class="<?= \dmstr\helpers\AdminLteHelper::skinClass() ?>">
```

(d) Menambahkan kode pada atribut generators, disini hanya menambahkan untuk crud karena pada admin lte hanya disediakan template untuk crud.



```
92      'generators' => [
93          /* 2103197075 - Emilda Idhotul Izzah - CRUD Template */
94          'crud' => [
95              'class' => 'yii\gii\generators\crud\Generator',
96              'templates' => [
97                  'simple' => 'C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/
98                      templates/crud/simple'
99              ],
100          ],
```

(e) Output program setelah proses di atas terpenuhi,



- Merancang model file pada folder e-surat.
Untuk membuat model pada tools gii menggunakan Model Generator.

Model Generator

This generator generates an ActiveRecord class for the specified database table.

Start »

Berikut adalah implementasi model dari masing-masing tabel pada database e-surat.

(a) Tabel : surat_masuk

Model Generator

This generator generates an ActiveRecord class for the specified database table.

Table Name

surat_masuk ▼

Model Class Name

SuratMasuk

Code Template

default (C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model\defau...

Preview

Generate

Click on the above **Generate** button to generate the files selected below:

Type to filter

☒ Create

☒ Unchanged

☒ Overwrite

Code File	Action	
models\SuratMasuk.php	create	<input checked="" type="checkbox"/>

(b) Tabel : surat_keluar

Model Generator

This generator generates an ActiveRecord class for the specified database table.

Table Name

surat_keluar

Model Class Name

SuratKeluar

Code Template

default (C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model\defau...

Preview

Generate

Click on the above **Generate** button to generate the files selected below:

Type to filter

☒ Create

☒ Unchanged

☒ Overwrite

Code File	Action	<input checked="" type="checkbox"/>
models\SuratKeluar.php	create	<input checked="" type="checkbox"/>

(c) Tabel : users

Model Generator

This generator generates an ActiveRecord class for the specified database table.

Table Name

users

Model Class Name

Users

Code Template

default (C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model\defau...

Preview

Generate

Click on the above **Generate** button to generate the files selected below:

Type to filter

☒ Create

☒ Unchanged

☒ Overwrite

Code File	Action	
models\Users.php	create	<input checked="" type="checkbox"/>

(d) Tabel : sifat

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model\default"...  
generated models\Sifat.php  
done!
```

(e) Tabel : kategori_surat

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model\default"...  
generated models\KategoriSurat.php  
done!
```

(f) Tabel : jabatan

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\Jabatan.php  
done!
```

(g) Tabel : jabatan_users

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\JabatanUsers.php  
done!
```

(h) Tabel : instansi

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\Instansi.php  
done!
```

(i) Tabel : golongan

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\Golongan.php  
done!
```

(j) Tabel : disposisi_surat_masuk

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\DisposisiSuratMasuk.php  
done!
```

(k) Tabel : disposisi_rules_node

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\DisposisiRulesNode.php  
done!
```

(l) Tabel : disposisi_rules_edge

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\DisposisiRulesEdge.php  
done!
```

(m)Tabel : approval_surat_keluar

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\ApprovalSuratKeluar.php  
done!
```

(n) Tabel : approval_rules_node

The code has been generated successfully.



















```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\ApprovalRulesNode.php  
done!
```

(o) Tabel : approval_rules_edge

The code has been generated successfully.

```
Generating code using template "C:\xampp\htdocs\e-surat\vendor\yiisoft\yii2-gii\src\generators\model/default"...  
generated models\ApprovalRulesEdge.php  
done!
```

Direktori @app/models

 AppovalRulesNode.php	 ApprovalRulesEdge.php	 ApprovalSuratKeluar.php	 ContactForm.php	 DisposisiRulesEdge.php
 DisposisiRulesNode.php	 DisposisiSuratMasuk.php	 Golongan.php	 Instansi.php	 Jabatan.php
 JabatanUsers.php	 KategoriSurat.php	 LoginForm.php	 Sifat.php	 SuratKeluar.php
 SuratMasuk.php	 User.php	 Users.php		

Model generator tidak menghasilkan view.

- Merancang CRUD file pada folder e-surat.
Untuk membuat crud pada tools gii menggunakan CRUD Generator.

CRUD Generator

This generator generates a controller and views that implement CRUD (Create, Read, Update, Delete) operations for the specified data model.

Start »

Berikut adalah implementasi CRUD dari masing-masing tabel pada database e-surat. Hasil dari generate CRUD menggunakan CRUD generator akan menghasilkan beberapa file yang terdapat pada folder @app/controllers, @app/models, dan @app/views.

(a) Model : SuratMasuk

CRUD Generator

This generator generates a controller and views that implement CRUD (Create, Read, Update, Delete) operations for the specified data model.

Model Class

app\models\SuratMasuk

Search Model Class

app\models\SuratMasukSearch

Controller Class

app\controllers\SuratMasukController

Proses dari gambar diatas akan menghasilkan search model class dan controller class dari model class SuratMasuk.

Code Template

simple (C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/cr...

Preview

Generate

Click on the above **Generate** button to generate the files selected below:

Type to filter

☒ Create

☒ Unchanged

☒ Overwrite

Code File	Action	<input checked="" type="checkbox"/>
controllers\SuratMasukController.php	create	<input checked="" type="checkbox"/>
models\SuratMasukSearch.php	create	<input checked="" type="checkbox"/>
views\surat-masuk_form.php	create	<input checked="" type="checkbox"/>
views\surat-masuk_search.php	create	<input checked="" type="checkbox"/>
views\surat-masuk\create.php	create	<input checked="" type="checkbox"/>
views\surat-masuk\index.php	create	<input checked="" type="checkbox"/>
views\surat-masuk\update.php	create	<input checked="" type="checkbox"/>
views\surat-masuk\view.php	create	<input checked="" type="checkbox"/>

Proses dari gambar ini menghasilkan beberapa file yang berhasil di generate dari proses sebelumnya. Dan menghasilkan view dari code template dengan nama 'simple'.

My Application

Alexander Pierce Online

Search...

Menu Yii2

Gii

Debug

Some tools

Surat Masuks

Home > Surat Masuks

Create Surat Masuk

#	ID	Nomor Agenda	No Surat	Surat Dari	Instansi ID

No results found.

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Gambar diatas adalah tampilan Surat Masuk dari crud generator setelah di generate.

(b) Model : SuratKeluar

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\SuratKeluarController.php  
generated models\SuratKeluarSearch.php  
generated views\surat-keluar\_form.php  
generated views\surat-keluar\_search.php  
generated views\surat-keluar\create.php  
generated views\surat-keluar\index.php  
generated views\surat-keluar\update.php  
generated views\surat-keluar\view.php  
done!
```

Gambar diatas adalah tanda alarm setelah proses generate.

(c) Model: sifat

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\SifatController.php  
generated models\SifatSearch.php  
generated views\sifat\_form.php  
generated views\sifat\_search.php  
generated views\sifat\create.php  
generated views\sifat\index.php  
generated views\sifat\update.php  
generated views\sifat\view.php  
done!
```

(d) Model : kategori_surat

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\KatSuratController.php  
generated models\KatSuratSearch.php  
generated views\kat-surat\_form.php  
generated views\kat-surat\_search.php  
generated views\kat-surat\create.php  
generated views\kat-surat\index.php  
generated views\kat-surat\update.php  
generated views\kat-surat\view.php  
done!
```

(e) Model : jabatan

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\JabatanController.php  
generated models\JabatanSearch.php  
generated views\jabatan\_form.php  
generated views\jabatan\_search.php  
generated views\jabatan\create.php  
generated views\jabatan\index.php  
generated views\jabatan\update.php  
generated views\jabatan\view.php  
done!
```

(f) Model : jabatan_users

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\JabatanUsersController.php  
generated models\JabatanUsersSearch.php  
generated views\jabatan-users\_form.php  
generated views\jabatan-users\_search.php  
generated views\jabatan-users\create.php  
generated views\jabatan-users\index.php  
generated views\jabatan-users\update.php  
generated views\jabatan-users\view.php  
done!
```

(g) Model : instansi

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\InstansiController.php  
generated models\InstansiSearch.php  
generated views\instansi\_form.php  
generated views\instansi\_search.php  
generated views\instansi\create.php  
generated views\instansi\index.php  
generated views\instansi\update.php  
generated views\instansi\view.php  
done!
```

(h) Model : golongan

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\GolonganController.php  
generated models\GolonganSearch.php  
generated views\golongan\_form.php  
generated views\golongan\_search.php  
generated views\golongan\create.php  
generated views\golongan\index.php  
generated views\golongan\update.php  
generated views\golongan\view.php  
done!
```

(i) Model : disposisi_surat_masuk

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\DisposisiSuratMasukController.php  
generated models\DisposisiSuratMasukSearch.php  
generated views\disposisi-surat-masuk\_form.php  
generated views\disposisi-surat-masuk\_search.php  
generated views\disposisi-surat-masuk\create.php  
generated views\disposisi-surat-masuk\index.php  
generated views\disposisi-surat-masuk\update.php  
generated views\disposisi-surat-masuk\view.php  
done!
```

(j) Model : disposisi_rules_node

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\DisposisiRulesNodeController.php  
generated models\DisposisiRulesNodeSearch.php  
generated views\disposisi-rules-node\_form.php  
generated views\disposisi-rules-node\_search.php  
generated views\disposisi-rules-node\create.php  
generated views\disposisi-rules-node\index.php  
generated views\disposisi-rules-node\update.php  
generated views\disposisi-rules-node\view.php  
done!
```

(k) Model : disposisi_rules_edge

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\DisposisiRulesEdgeController.php  
generated models\DisposisiRulesEdgeSearch.php  
generated views\disposisi-rules-edge\_form.php  
generated views\disposisi-rules-edge\_search.php  
generated views\disposisi-rules-edge\create.php  
generated views\disposisi-rules-edge\index.php  
generated views\disposisi-rules-edge\update.php  
generated views\disposisi-rules-edge\view.php  
done!
```

(l) Model : approval_surat_keluar

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\ApprovalSuratKeluarController.php  
generated models\ApprovalSuratKeluarSearch.php  
generated views\approval-surat-keluar\_form.php  
generated views\approval-surat-keluar\_search.php  
generated views\approval-surat-keluar\create.php  
generated views\approval-surat-keluar\index.php  
generated views\approval-surat-keluar\update.php  
generated views\approval-surat-keluar\view.php  
done!
```

(m)Model : approval_rules_node

The code has been generated successfully.

```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\ApprovalRulesNodeController.php  
generated models\ApprovalRulesNodeSearch.php  
generated views\approval-rules-node\_form.php  
generated views\approval-rules-node\_search.php  
generated views\approval-rules-node\create.php  
generated views\approval-rules-node\index.php  
generated views\approval-rules-node\update.php  
generated views\approval-rules-node\view.php  
done!
```

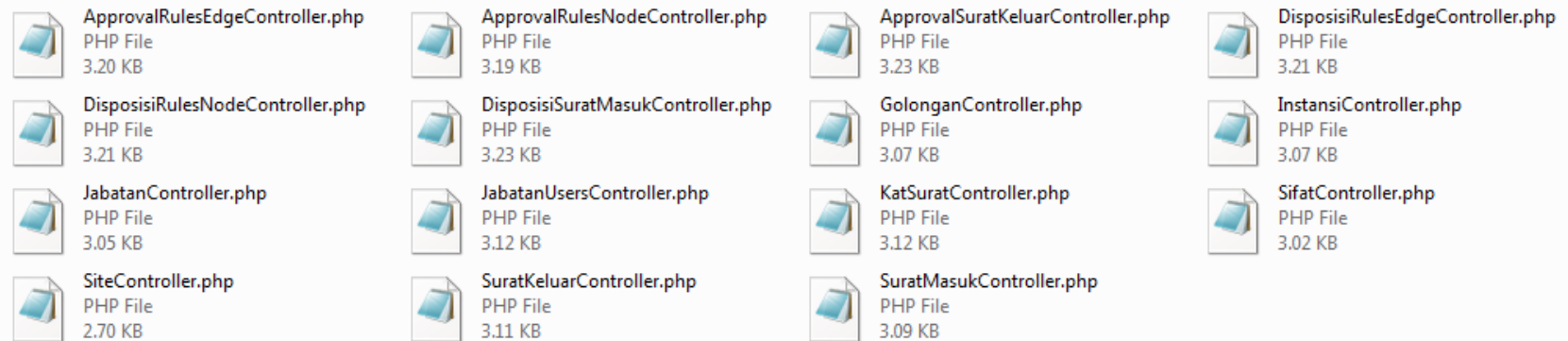

(n) Model : approval_rules_edge

The code has been generated successfully.

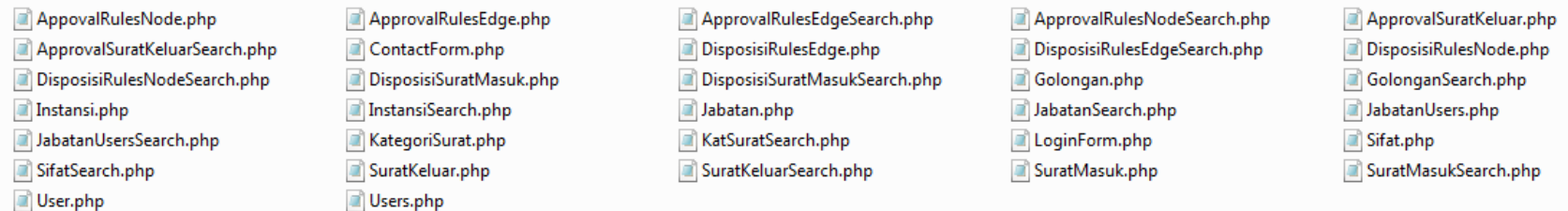
```
Generating code using template "C:/xampp/htdocs/e-surat/vendor/dmstr/yii2-adminlte-asset/gii/templates/crud/simple"...  
generated controllers\ApprovalRulesEdgeController.php  
generated models\ApprovalRulesEdgeSearch.php  
generated views\approval-rules-edge\_form.php  
generated views\approval-rules-edge\_search.php  
generated views\approval-rules-edge\create.php  
generated views\approval-rules-edge\index.php  
generated views\approval-rules-edge\update.php  
generated views\approval-rules-edge\view.php  
done!
```

Hasil dari CRUD Generator :

@app/controllers



@app/models



@app/views



approval-rules-edge
File folder



disposisi-rules-node
File folder



jabatan
File folder



sifat
File folder



approval-rules-node
File folder



disposisi-surat-masuk
File folder



jabatan-users
File folder



site
File folder



approval-surat-keluar
File folder



golongan
File folder



kat-surat
File folder



surat-keluar
File folder



disposisi-rules-edge
File folder



instansi
File folder



layouts
File folder



surat-masuk
File folder

- Hasil Akhir

(a) Halaman Login

Not secure 192.168.56.1/e-surat/web/site/login

LoginAdmin

Sign in to start your session

admin

.....

☒ Remember Me [Sign in](#)

- OR -

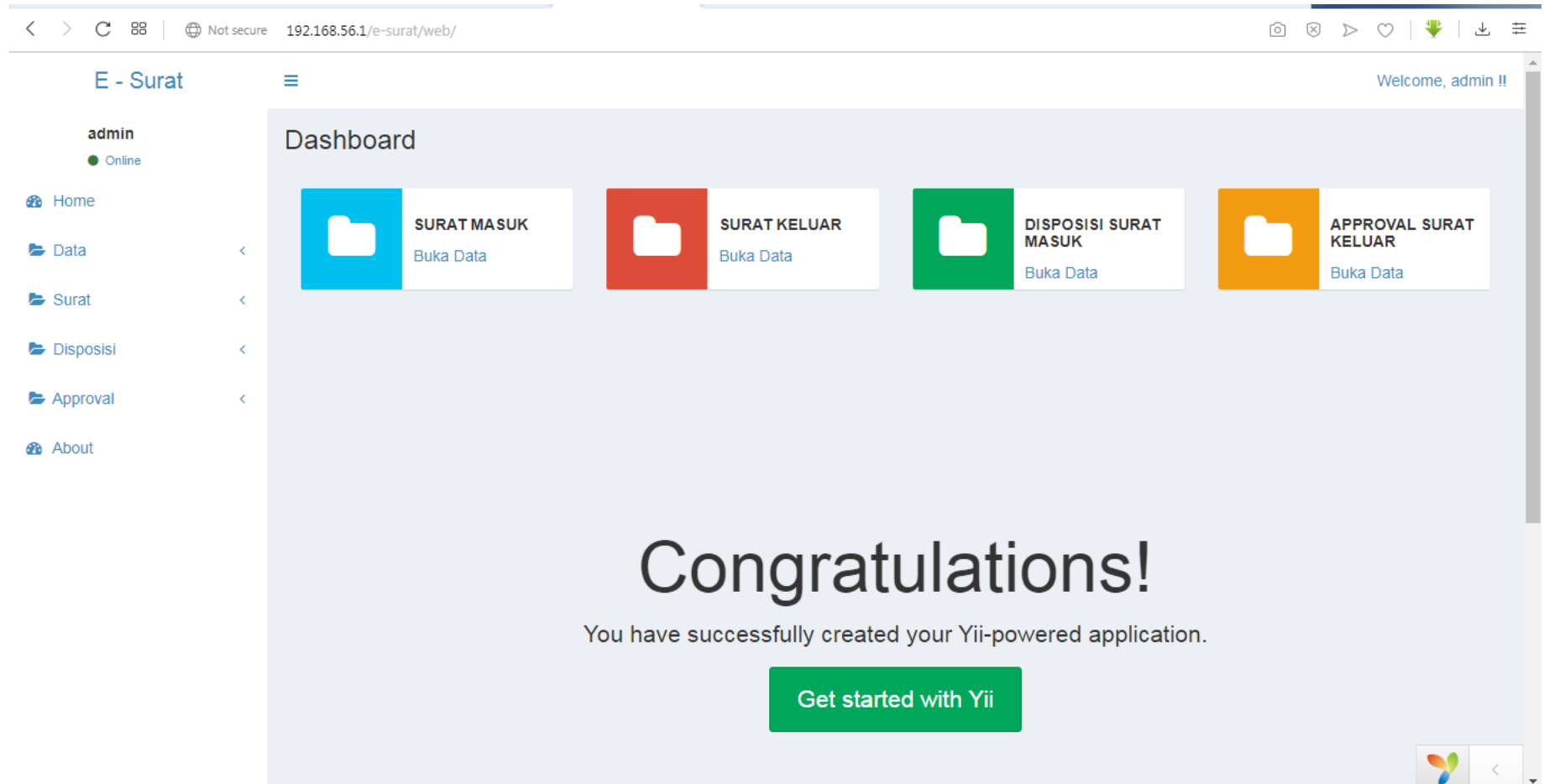
[Sign in using Facebook](#)

[Sign in using Google+](#)

[I forgot my password](#)

[Register a new membership](#)

(b) Halaman Admin



(c) Halaman About

< > ↺ 88 | Not secure 192.168.56.1/e-surat/web/site/about

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E - Surat

admin
● Online


- 🏠 Home
- 📁 Data <
- 📁 Surat <
- 📁 Disposisi <
- 📁 Approval <
- 🏠 About

About

Home > About

NRP : 2103197075
Nama : Emilda Idhotul Izzah
Kelas : 1 IT A PJJ AK 2019

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