

# Dot

## Step 1 : Menyusun masalah, daftar pertanyaan

### Masalah

Di sebuah kota atau desa terdapat banyak penghasil pangan namun dengan jumlahnya yang banyak, ada beberapa kejanggaran yang terjadi seperti harga bahan pangan yang tidak stabil.

### Actor/Pelaku

1. Pegawai Resmi
2. Kontributor Pangan

### Pertanyaan dari Actor/Pelaku

#### Actor ke-1 : Pegawai Resmi

1. Apa yang harus dilakukan agar harga bahan pangan stabil ?
2. Dimana kami dapat menemukan tempat penghasil pangan?
3. Kapan saja harga bahan pangan tidak stabil ?
4. Siapa yang harus ikut serta dalam menstabilkan harga bahan pangan ?
5. Mengapa perlu dilakukan stabilisasi harga pada bahan pangan ?
6. Bagaimana cara agar harga bahan pangan stabil ?

#### Actor ke-2 : Kontributor Pangan

1. Apa yang dilakukan supaya harga bahan pangan kami stabil dengan kontributor pangan lainnya ?
2. Dimana saja kami dapat menemukan kontributor pangan lainnya ?
3. Kapan kami dapat mengatur harga bahan pangan agar stabil ?
4. Siapa yang dapat menstabilkan harga bahan pangan antar kontributor lainnya ?
5. Mengapa harga bahan pangan ada yang berbeda-beda ?
6. Bagaimana caranya agar kontributor pangan mengetahui harga standar untuk bahan pangan ?

## **Step 2 : Menyusun aset informasi**

### **Daftar Informasi**

1. Pegawai Resmi
2. Kontributor Pangan

### **Informasi ke-1 : Pegawai Resmi**

1. Apa kartu identitas resminya

### **Informasi ke-2 : Kontributor Pangan**

1. Berapa nomor induk kependudukan
2. Berapa nomor pokok wajib pajak
3. Di provinsi mana penghasil bahan pangan
4. Di kota atau kabupaten mana penghasil bahan pangan
5. Di kecamatan mana penghasil bahan pangan
6. Di kelurahan mana penghasil bahan pangan
7. Kapan panen bahan pangan
8. Apa saja bahan pangan yang dihasilkan
9. Berapa stok rata-rata hasil panen bahan pangan
10. Dalam satuan berat apa bahan pangan dijual
11. Berapa harga rata-rata bahan pangan yang dijual

### **Step 3 : Menyusun menu/aktivitas**

#### **User Role**

1. Pegawai Resmi
2. Kontributor Pangan

#### **Provisioning**

1. Untuk bisa mengakses sistem informasi kontributor pangan, maka daftar sebagai kontributor pangan
2. Untuk bisa mengakses sistem informasi dot, maka login sebagai administrator

#### **Menu/Activity - Pegawai Resmi**

1. Memberikan Akses Registrasi
2. Memberikan Laporan

#### **Menu/Activity - Kontributor Pangan**

1. Mendata Hasil Pangan
2. Memberikan Laporan

## Step 4 : Menyusun data user/aktivitas dummy

### Dummy Data : Pegawai Resmi

#### Dummy ke-1

Role : Administrator  
Username : admin  
Email : [admin@admin.com](mailto:admin@admin.com)

### Dummy Data : Kontributor Pangan

#### Dummy ke-1

NIK : 32-01-01-21-03-99-0008  
NPWP : 03.026.562.0-805.000  
Nama : Muhammad Azhar Rasyad  
No HP: +6281290351971  
Email : [muhazharrasyad@gmail.com](mailto:muhazharrasyad@gmail.com)  
Provinsi : Jawa Barat  
Kota : Kabupaten Bogor  
Kecamatan : Cibinong  
Kelurahan : Pondok Rajeg  
RT : 1  
RW : 6  
Kode Pos : 16914

#### Dummy ke-2

NIK : 23-10-10-12-30-99-8000  
NPWP : 03.620.256.3-132.423  
Nama : Muhammad Hasbi Sidiq  
No HP: +6281234252345  
Email : [mhasbisidiq@gmail.com](mailto:mhasbisidiq@gmail.com)  
Provinsi : Jawa Barat  
Kota : Kabupaten Bandung  
Kecamatan : Arjasari  
Kelurahan : Ancolmekar  
RT : 2  
RW : 7  
Kode Pos : 16915

## Dummy Data : Distributor Pangan

### Dummy ke-1

Kontributor Pangan : Muhammad Azhar Rasyad  
Tanggal : 2018-08-04  
Bahan Pangan : Beras  
Stok Rata-Rata : 500  
Satuan Berat Stok : Kilogram  
Harga Rata-Rata : 2000

### Dummy ke-2

Kontributor Pangan : Muhammad Azhar Rasyad  
Tanggal : 2018-08-03  
Bahan Pangan : Gula  
Stok Rata-Rata : 100  
Satuan Berat Stok : Kilogram  
Harga Rata-Rata : 1000

### Dummy ke-3

Kontributor Pangan : Muhammad Hasbi Sidiq  
Tanggal : 2018-08-02  
Bahan Pangan : Garam  
Stok Rata-Rata : 200  
Satuan Berat Stok : Kwintal  
Harga Rata-Rata : 5000

### Dummy ke-4

Kontributor Pangan : Muhammad Hasbi Sidiq  
Tanggal : 2018-08-04  
Bahan Pangan : Beras  
Stok Rata-Rata : 100  
Satuan Berat Stok : Ton  
Harga Rata-Rata : 2000

## Step 5 : Menyusun rancangan UX

### Landing Page

Navigasi									
<div><div>LOGO</div><div>MENU</div></div>									
Footer									

### Form Page

Navigasi									
Breadcrumb									
<div>Form</div>									
Footer									

## Step 6 : Menyusun database/table

### Database : Dot

```
create database db_dot;
```

### Table : Kecamatan

```
CREATE TABLE 'kecamatan' (  
  'id' char(7) NOT NULL,  
  'kota_id' char(4) NOT NULL,  
  'nama' varchar(255) NOT NULL  
);
```

### Table : Kelurahan

```
CREATE TABLE 'kelurahan' (  
  'id' char(10) NOT NULL,  
  'kecamatan_id' char(7) NOT NULL,  
  'nama' varchar(255) NOT NULL  
);
```

### Table : Kota

```
CREATE TABLE 'kota' (  
  'id' char(4) NOT NULL,  
  'provinsi_id' char(2) NOT NULL,  
  'nama' varchar(255) NOT NULL  
);
```

### Table : Provinsi

```
CREATE TABLE 'provinsi' (  
  'id' char(2) NOT NULL,  
  'nama' varchar(255) NOT NULL  
);
```

### Table : Kontributor Pangan

```
CREATE TABLE 'kontributor_pangan' (  
  'id' int(11) NOT NULL,
```

```
'nik' varchar(100) NOT NULL,  
'npwp' varchar(100) NOT NULL,  
'nama_lengkap' varchar(100) NOT NULL,  
'no_handphone' varchar(20) NOT NULL,  
'email' varchar(50) NOT NULL,  
'provinsi' char(2) NOT NULL,  
'kota' char(4) NOT NULL,  
'kecamatan' char(7) NOT NULL,  
'kelurahan' char(10) NOT NULL,  
'rt' int(3) NOT NULL,  
'rw' int(3) NOT NULL,  
'kode_pos' int(10) NOT NULL,  
'lat' varchar(100) NOT NULL,  
'lng' varchar(100) NOT NULL  
);
```

### **Table : Distribusi Pangan**

```
CREATE TABLE 'distribusi_pangan' (  
  'id' int(11) NOT NULL,  
  'kontributor_pangan_id' int(11) NOT NULL,  
  'tanggal' date NOT NULL,  
  'bahan_pangan' varchar(30) NOT NULL,  
  'stok_rata2' float NOT NULL,  
  'satuan_stok' varchar(10) NOT NULL,  
  'harga_rata2' double NOT NULL  
);
```



## **Step 7 : Pengembangan template, kerangka aplikasi**

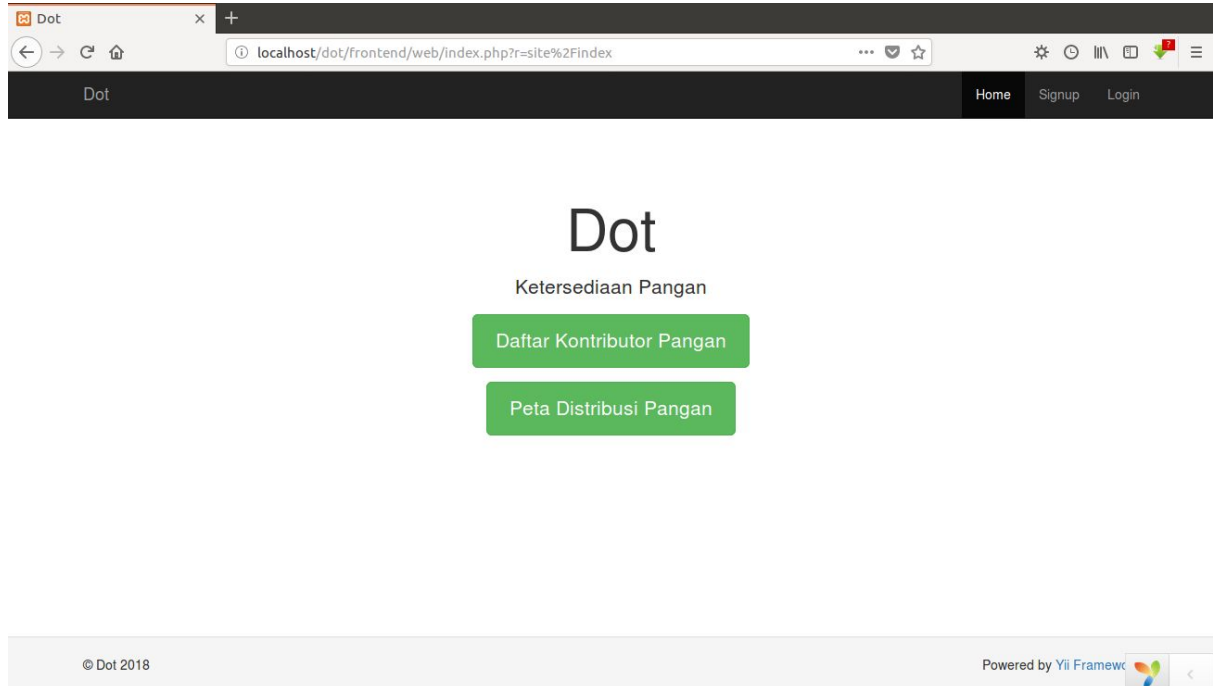
<https://github.com/mazharrasyad/Dot>

## **Step 8 : Implementasi MVC**

<https://github.com/mazharrasyad/Dot>

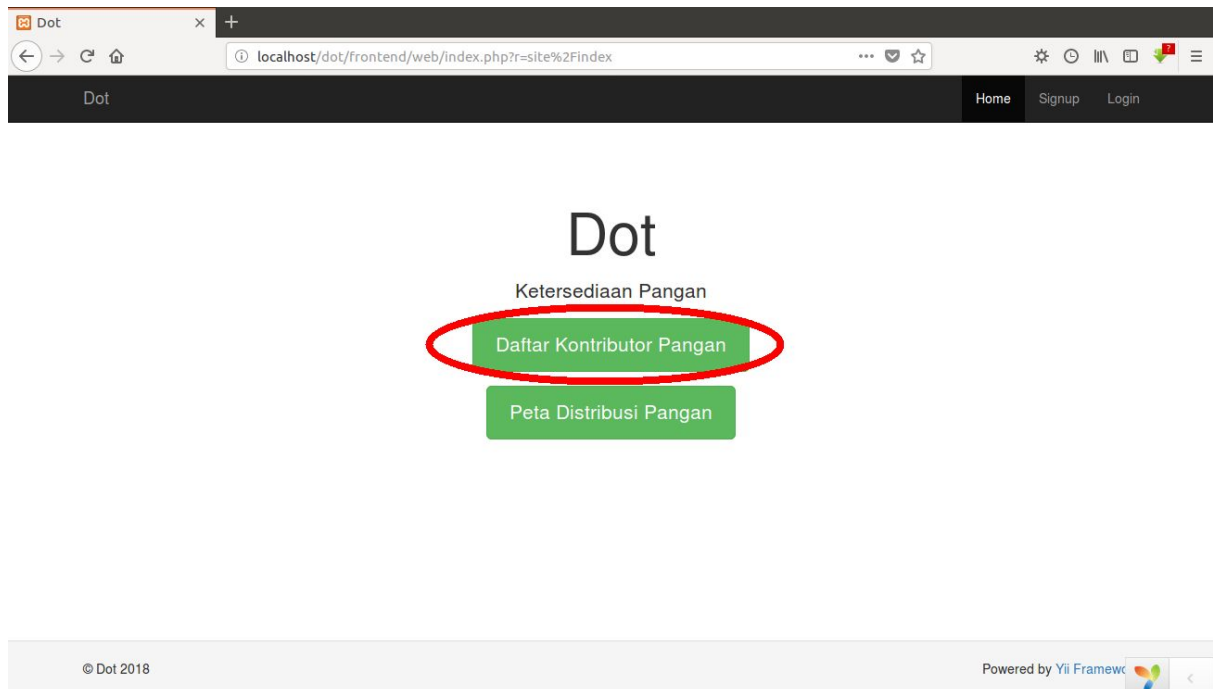
## Step 9 : Software testing

### Testing Landing Page (Frontend)

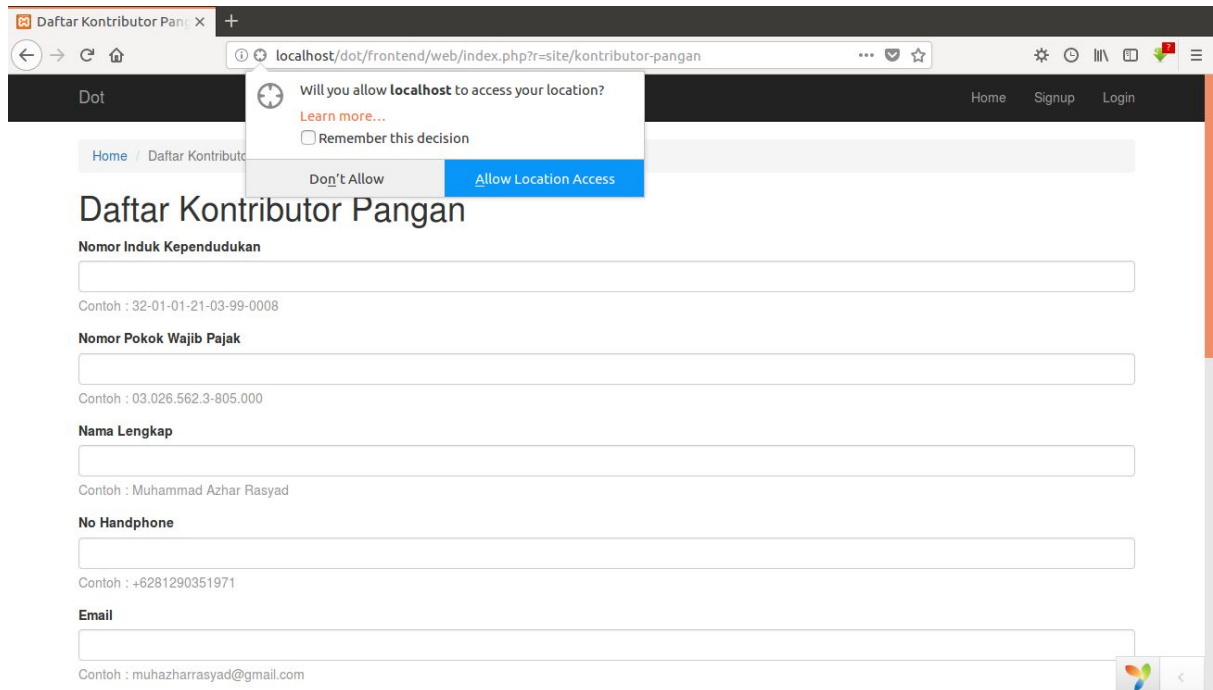


### Testing Daftar Kontributor Pangan (Frontend)

#### 1. Link ke Form Daftar Kontributor Pangan



## 2. Form Daftar Kontributor Pangan



Daftar Kontributor Pangan

Nomor Induk Kependudukan

Contoh : 32-01-01-21-03-99-0008

Nomor Pokok Wajib Pajak

Contoh : 03.026.562.3-805.000

Nama Lengkap

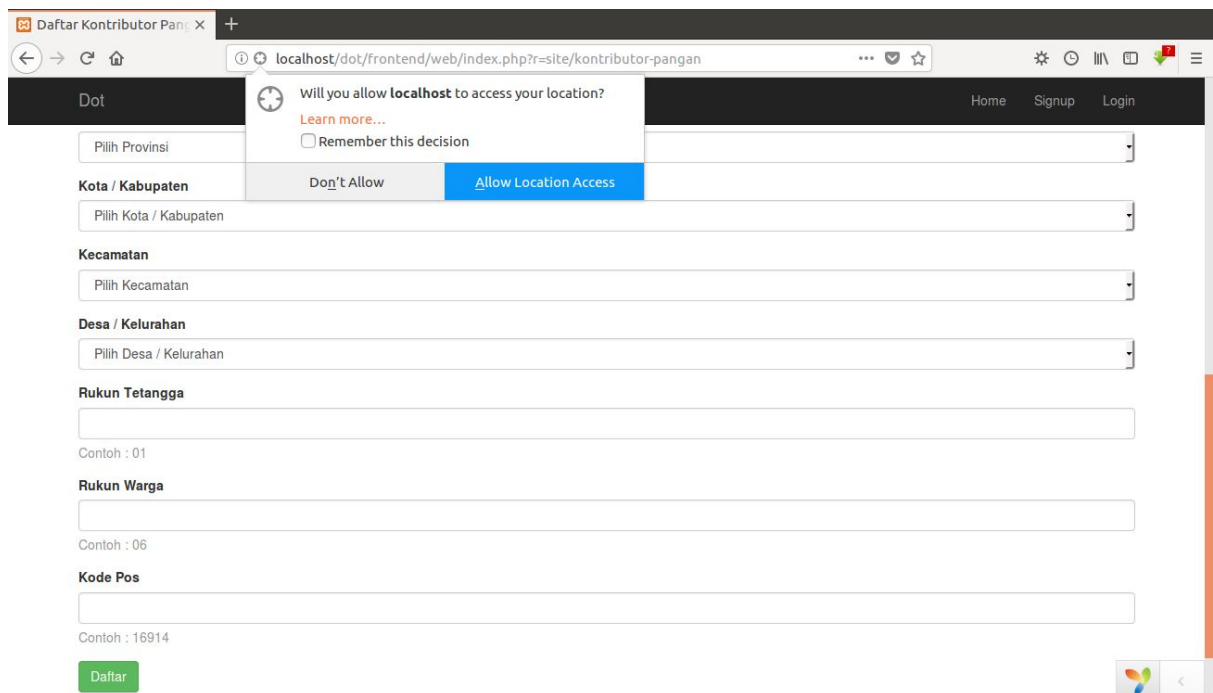
Contoh : Muhammad Azhar Rasyad

No Handphone

Contoh : +6281290351971

Email

Contoh : muhazharrasyad@gmail.com



Daftar Kontributor Pangan

Pilih Provinsi

Kota / Kabupaten

Pilih Kota / Kabupaten

Kecamatan

Pilih Kecamatan

Desa / Kelurahan

Pilih Desa / Kelurahan

Rukun Tetangga

Contoh : 01

Rukun Warga

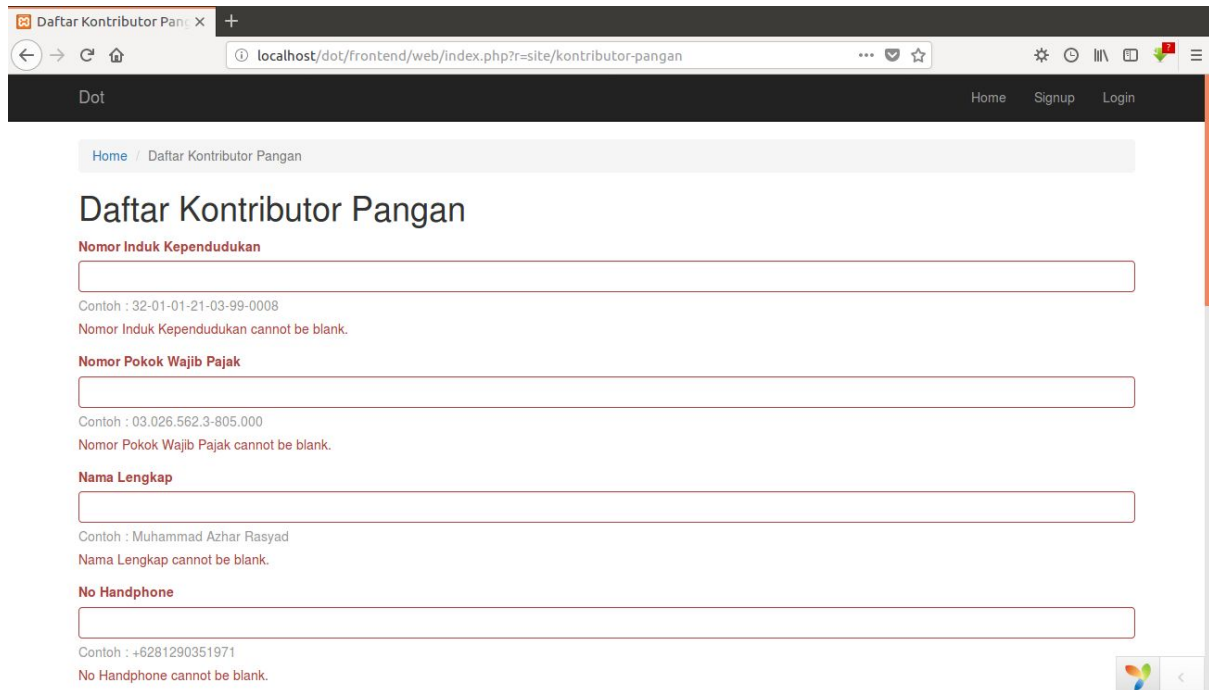
Contoh : 06

Kode Pos

Contoh : 16914

Daftar

### 3. Validasi Form Daftar Kontributor Pangan

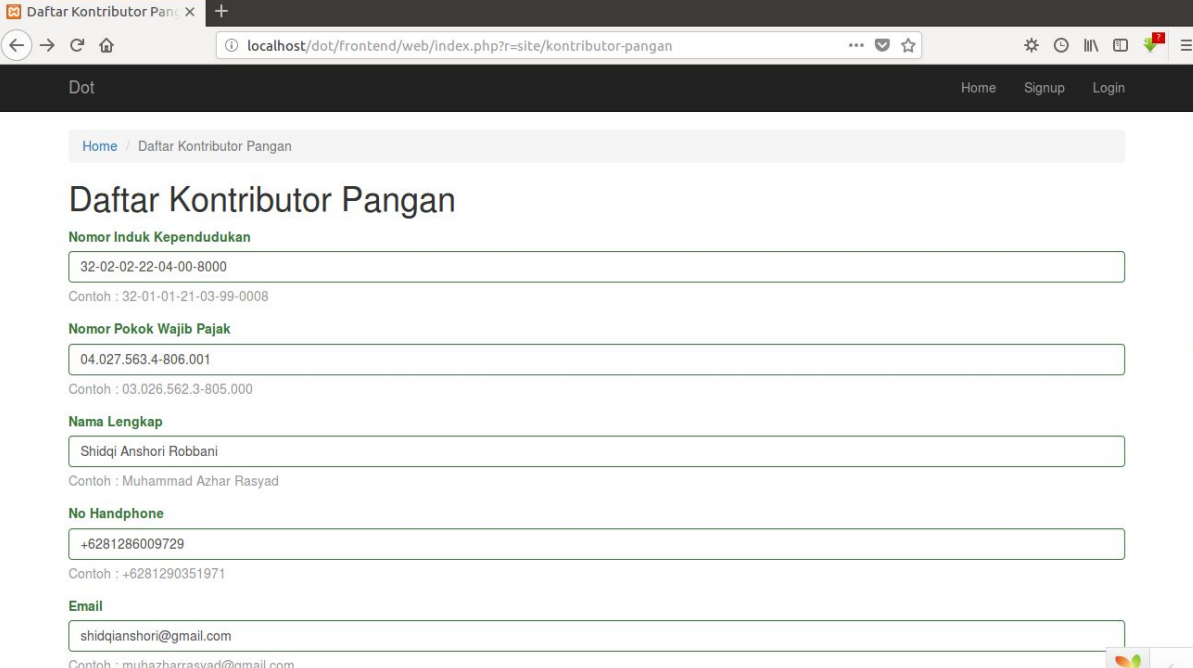


The screenshot shows a web browser window with the URL `localhost/dot/frontend/web/index.php?r=site/kontributor-pangan`. The page title is "Daftar Kontributor Pangan". The form contains four input fields, each with a label, a placeholder example, and a red validation message:

- Nomor Induk Kependudukan**: Placeholder "Contoh : 32-01-01-21-03-99-0008". Message: "Nomor Induk Kependudukan cannot be blank."
- Nomor Pokok Wajib Pajak**: Placeholder "Contoh : 03.026.562.3-805.000". Message: "Nomor Pokok Wajib Pajak cannot be blank."
- Nama Lengkap**: Placeholder "Contoh : Muhammad Azhar Rasyad". Message: "Nama Lengkap cannot be blank."
- No Handphone**: Placeholder "Contoh : +6281290351971". Message: "No Handphone cannot be blank."

The browser's address bar and navigation buttons are visible at the top. The page has a dark header with "Dot" and navigation links "Home", "Signup", and "Login".

### 4. Sample Input

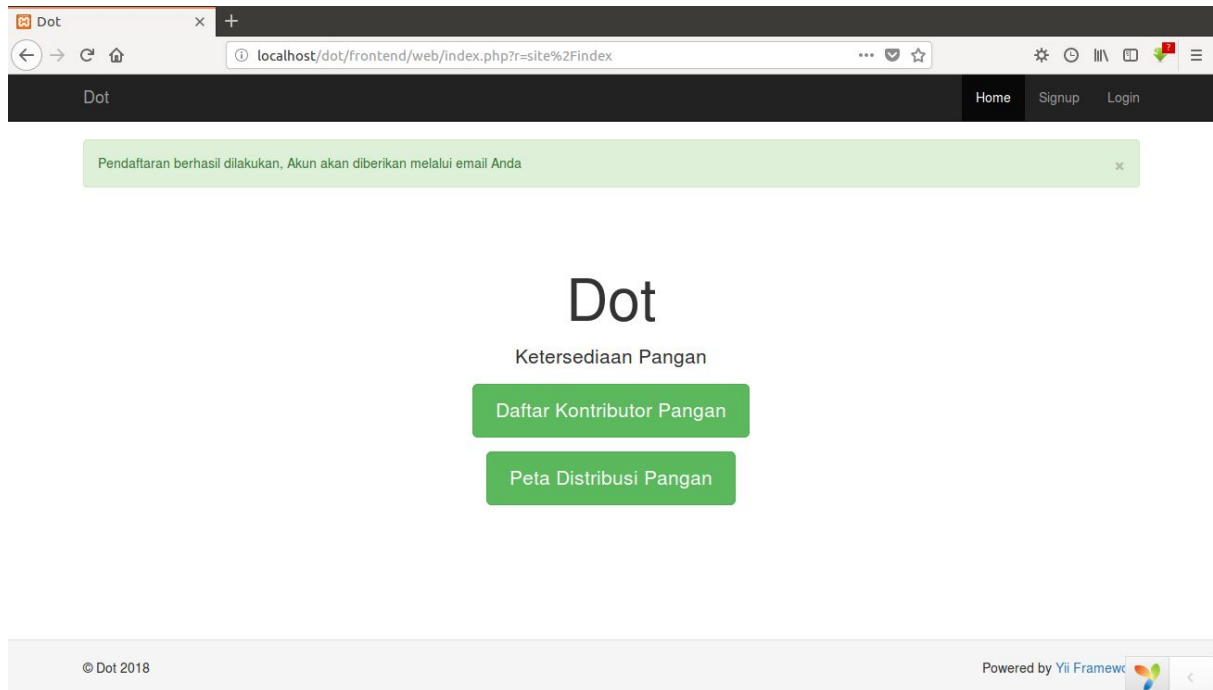


The screenshot shows the same web browser window, but now the form fields are populated with sample data, and the validation messages are gone:

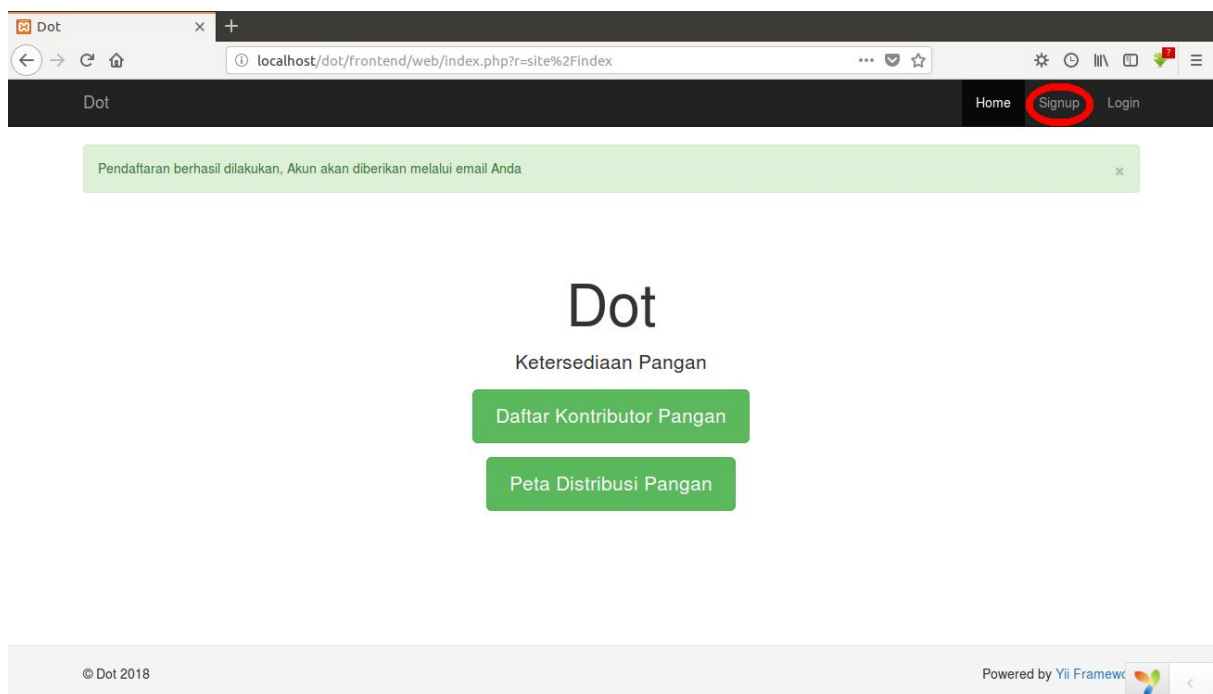
- Nomor Induk Kependudukan**: "32-02-02-22-04-00-8000". Example: "Contoh : 32-01-01-21-03-99-0008".
- Nomor Pokok Wajib Pajak**: "04.027.563.4-806.001". Example: "Contoh : 03.026.562.3-805.000".
- Nama Lengkap**: "Shidqi Anshori Robbani". Example: "Contoh : Muhammad Azhar Rasyad".
- No Handphone**: "+6281286009729". Example: "Contoh : +6281290351971".
- Email**: "shidqianshori@gmail.com". Example: "Contoh : muhazharrasyad@gmail.com".

The browser's address bar and navigation buttons are visible at the top. The page has a dark header with "Dot" and navigation links "Home", "Signup", and "Login".

## 5. Berhasil Input



## 6. Link ke Form Daftar User



## 7. Form Daftar User

Signup

Please fill out the following fields to signup:

**Username**

Username cannot be blank.

**Email**

**Password**

Signup

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## 8. Validasi Form Daftar User

Signup

Please fill out the following fields to signup:

**Username**

Username cannot be blank.

**Email**

Email cannot be blank.

**Password**

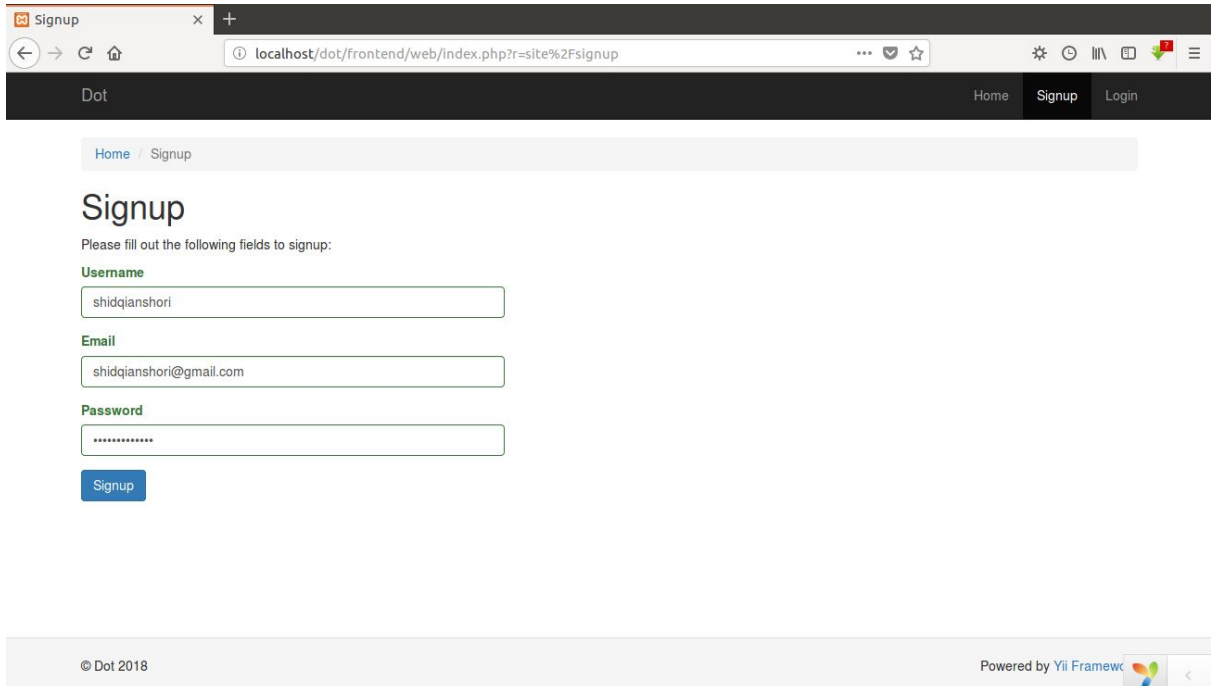
Password cannot be blank.

Signup

© Dot 2018

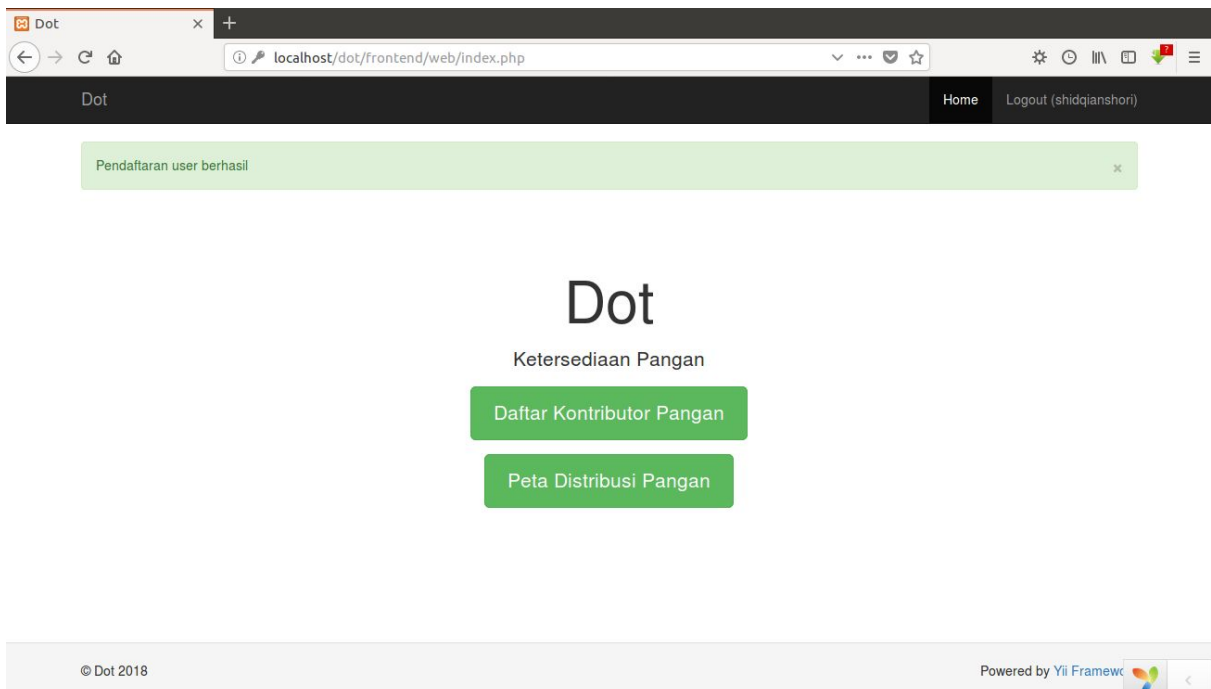
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## 9. Sample Input



The screenshot shows a web browser window with the address bar displaying `localhost/dot/frontend/web/index.php?r=site%2Fsignup`. The page has a dark header with 'Dot' on the left and 'Home', 'Signup', and 'Login' on the right. Below the header is a breadcrumb 'Home / Signup'. The main content area is titled 'Signup' and includes the instruction 'Please fill out the following fields to signup:'. There are three input fields: 'Username' with the value 'shidqianshori', 'Email' with the value 'shidqianshori@gmail.com', and 'Password' with masked characters '\*\*\*\*\*'. A blue 'Signup' button is located below the password field. The footer contains '© Dot 2018' on the left and 'Powered by Yii Framework' with a logo on the right.

## 10. Berhasil Input



The screenshot shows the 'Dot' homepage. The browser address bar is `localhost/dot/frontend/web/index.php`. The header shows 'Dot' and 'Home', 'Logout (shidqianshori)'. A green success message banner at the top reads 'Pendaftaran user berhasil'. The main content area features the 'Dot' logo, the text 'Ketersediaan Pangan', and two green buttons: 'Daftar Kontributor Pangan' and 'Peta Distribusi Pangan'. The footer is identical to the previous screenshot, showing '© Dot 2018' and 'Powered by Yii Framework'.

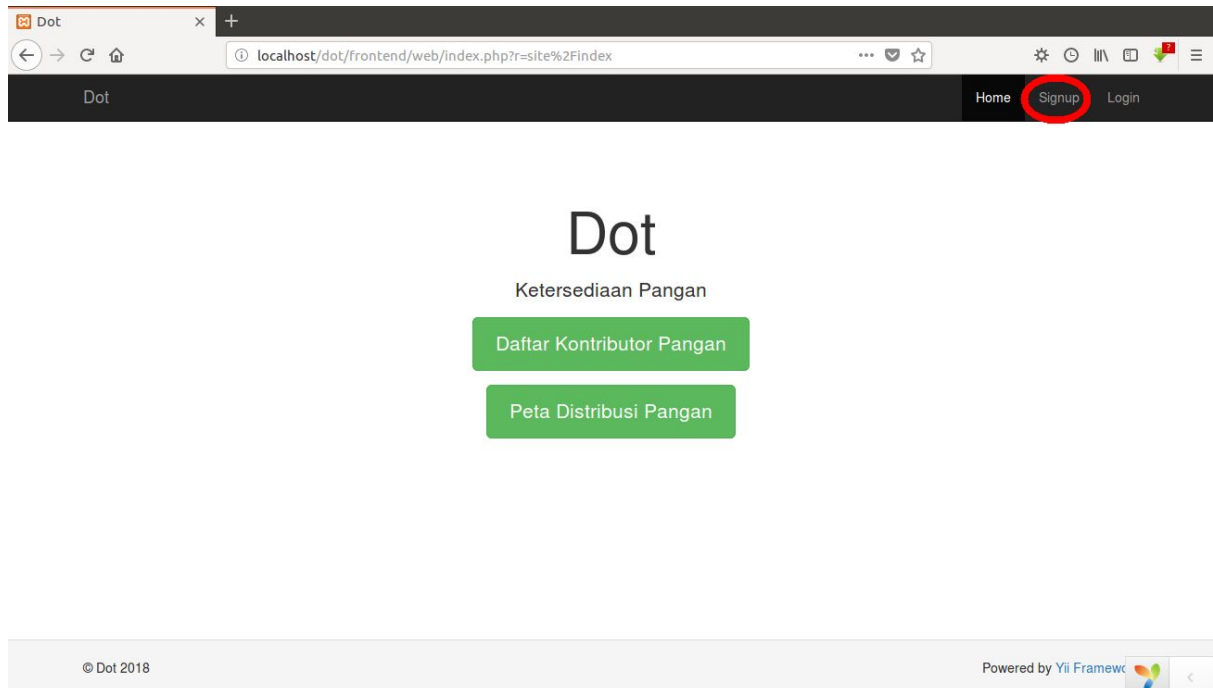
## 11. Menunggu Konfirmasi Admin

Setelah mendaftar maka langkah selanjutnya adalah menunggu konfirmasi dari admin untuk memeriksa keaslian data tersebut yang akan diberitahukan melalui email.

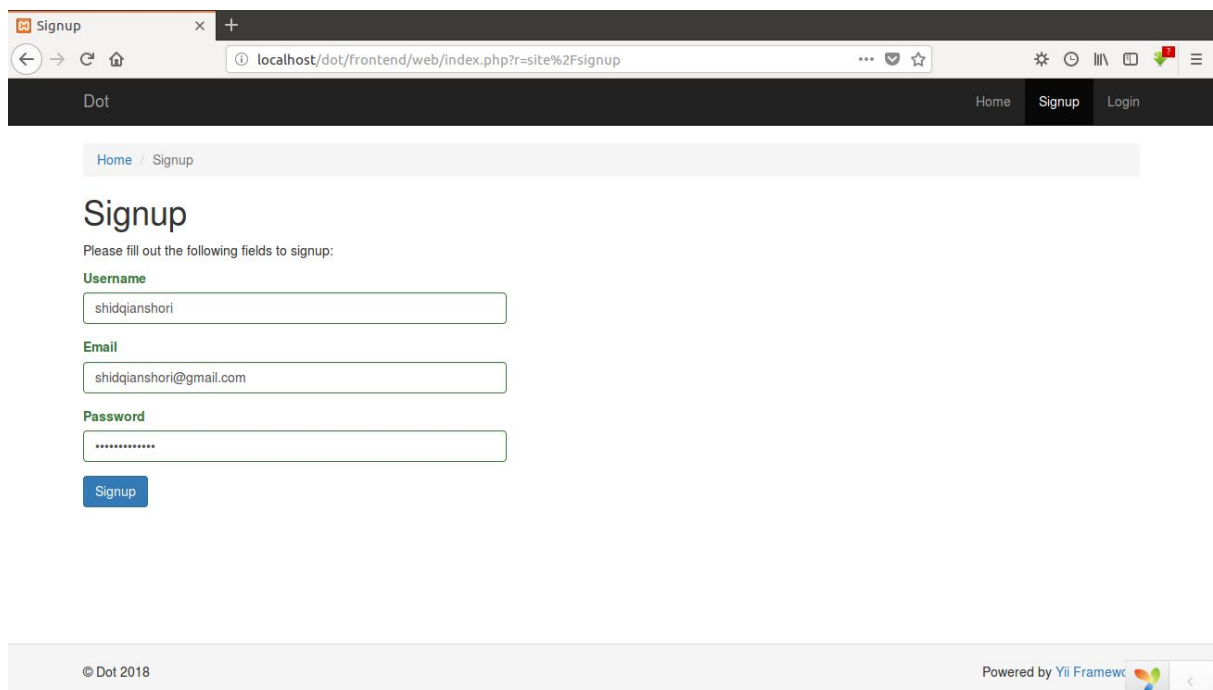


# Testing Mendata Distribusi Pangan Oleh Kontributor Pangan (Frontend)

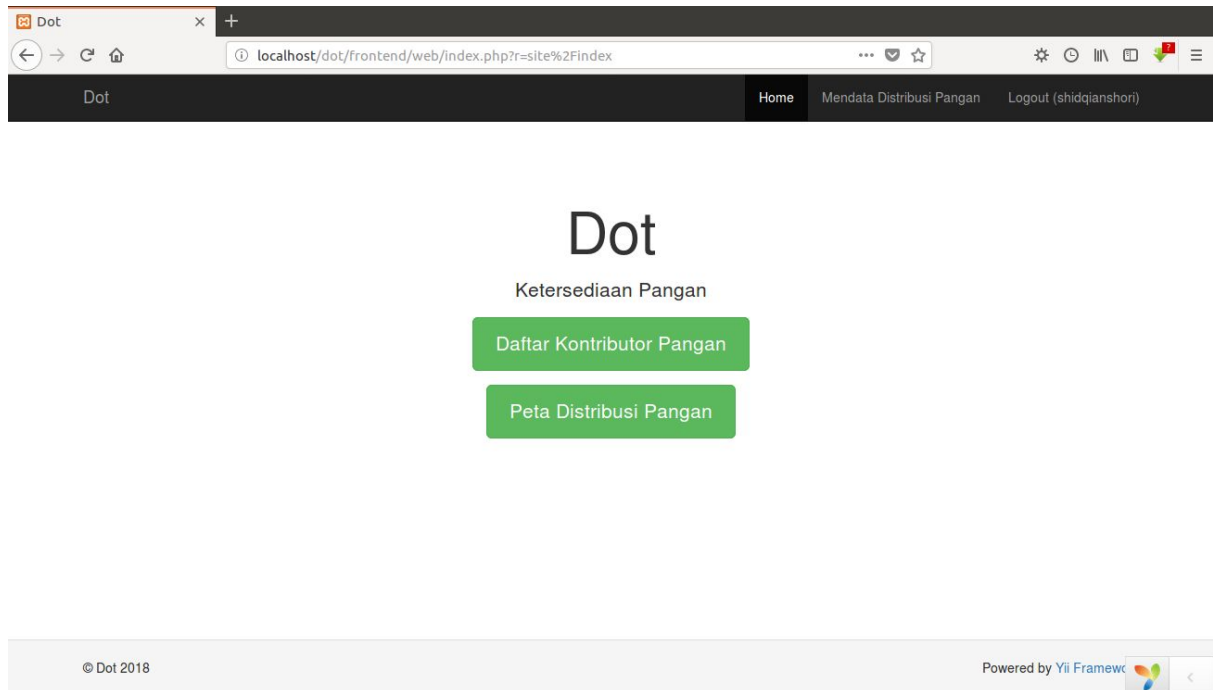
## 1. Link ke Form Data Distribusi Pangan



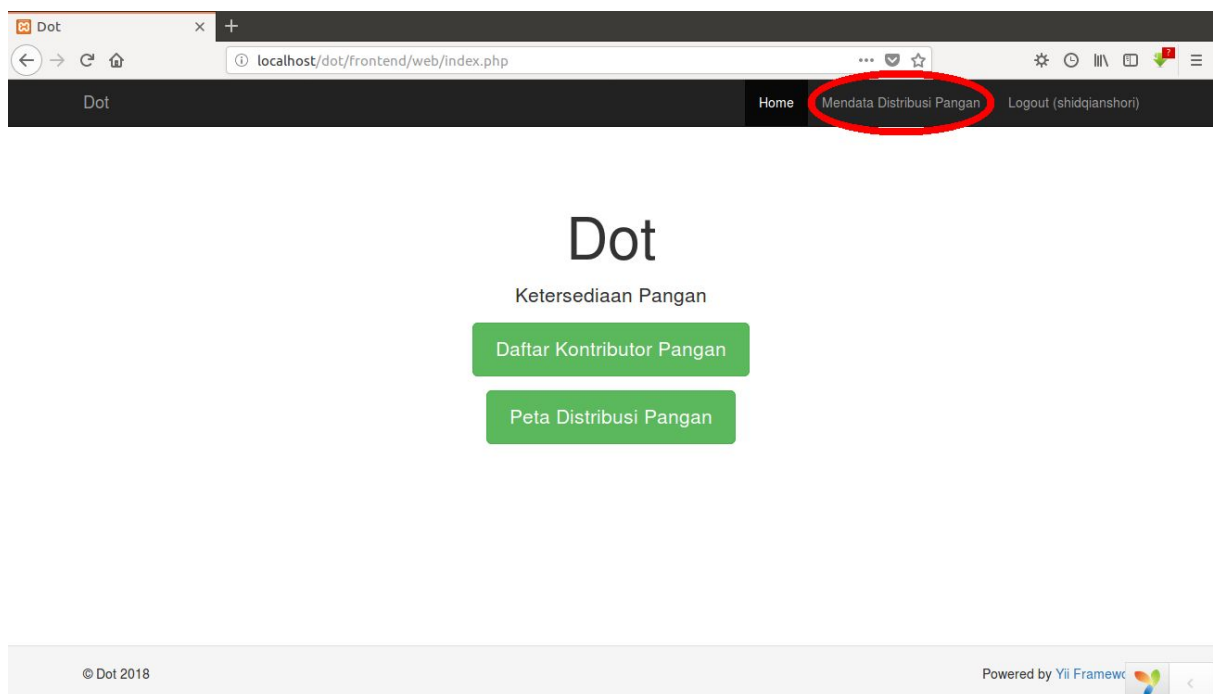
## 2. Sample Form Login



### 3. Form Data Distribusi Pangan



### 4. Link ke Form Data Distribusi Pangan



## 5. Form Data Distribusi Pangan

Mendata Distribusi Pangan

**Tanggal Mendata**

mm / dd / yyyy

Contoh : 31 / 12 / 2018

**Bahan Pangan**

Contoh : Beras

**Stok Rata-Rata Bahan Pangan**

Contoh : 50

**Satuan Stok Bahan Pangan**

☐ Ton ☐ Kwintal ☐ Kilogram ☐ Gram ☐ Ons ☐ Liter

Contoh : Kilogram

**Harga Rata-Rata Bahan Pangan Per Kilogram (KG)**

Contoh : 10000

## 6. Validasi Form Data Distribusi Pangan

Mendata Distribusi Pangan

**Tanggal Mendata**

mm / dd / yyyy

Contoh : 31 / 12 / 2018

Tanggal cannot be blank.

**Bahan Pangan**

Contoh : Beras

Bahan Pangan cannot be blank.

**Stok Rata-Rata Bahan Pangan**

Contoh : 50

Stok Rata2 cannot be blank.

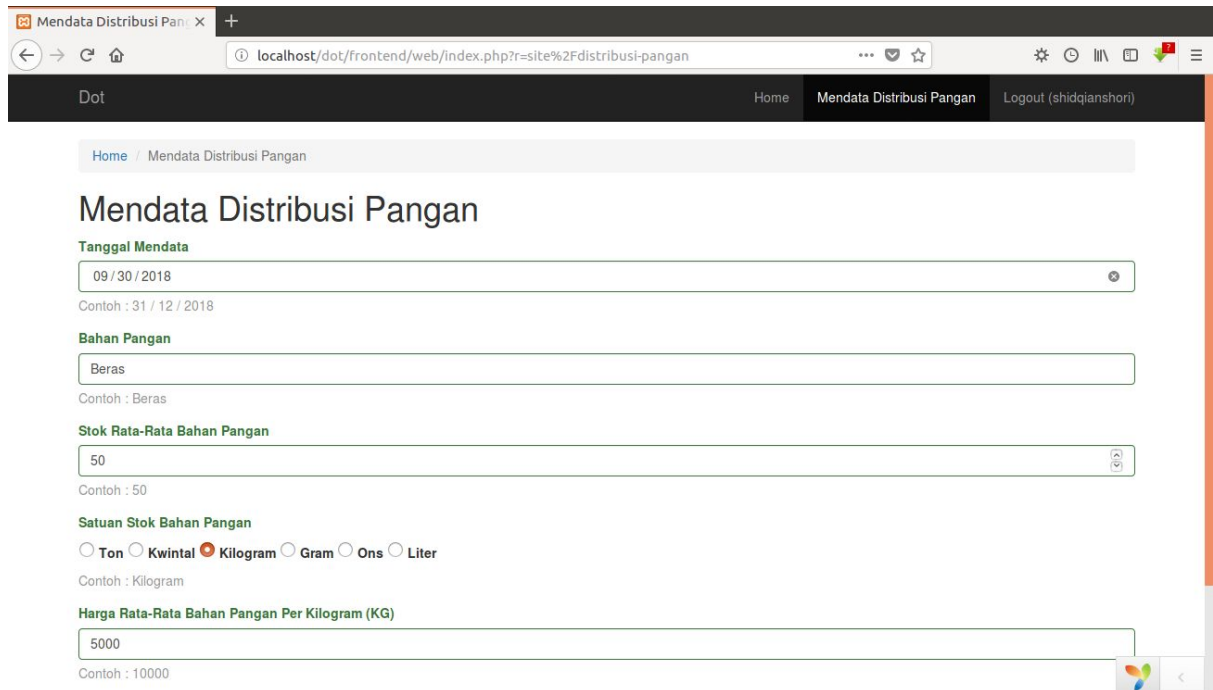
**Satuan Stok Bahan Pangan**

☐ Ton ☐ Kwintal ☐ Kilogram ☐ Gram ☐ Ons ☐ Liter

Contoh : Kilogram

Satuan Stok cannot be blank.

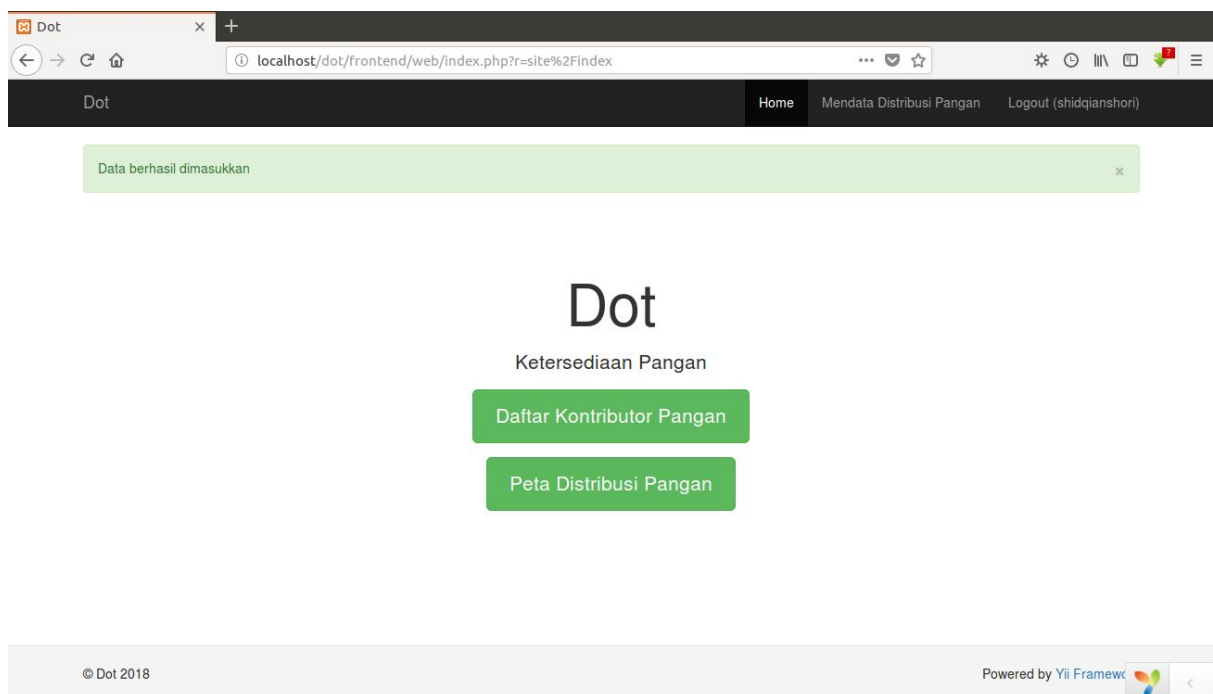
## 7. Sample Input



The screenshot shows a web browser window with the address bar displaying `localhost/dot/frontend/web/index.php?r=site%2Fdistribusi-pangan`. The page title is "Mendata Distribusi Pangan". The form contains the following fields and options:

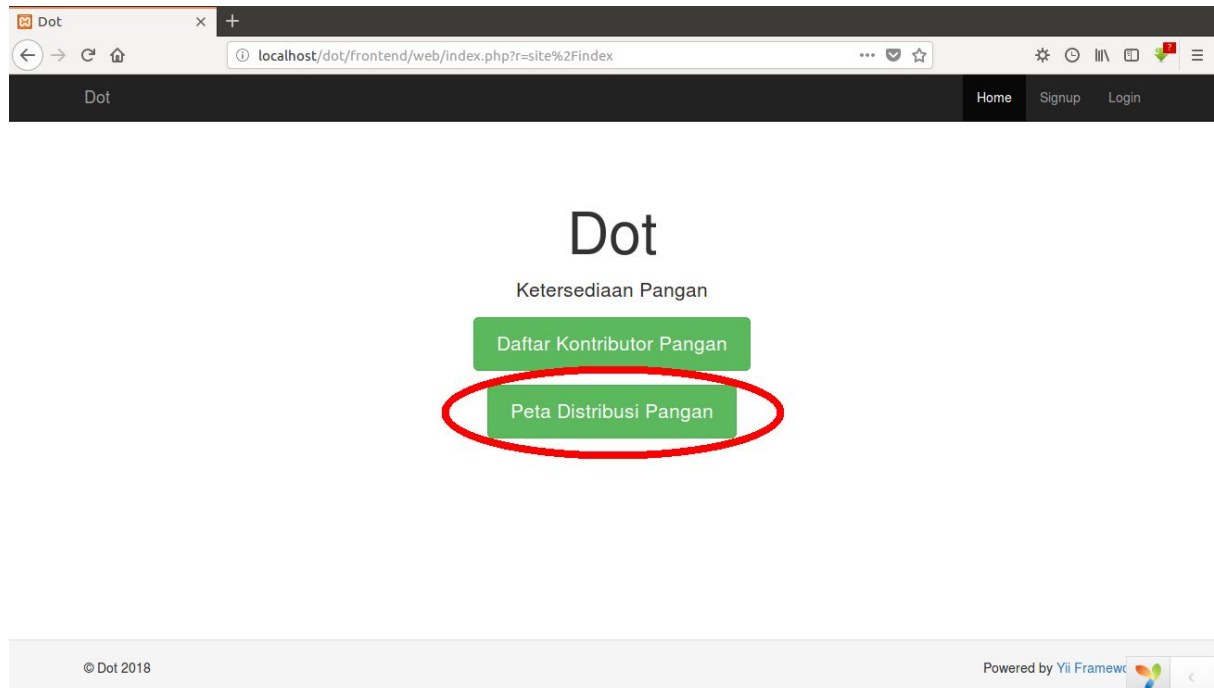
- Tanggal Mendata:** A date input field with the value "09/30/2018". Below it, a hint text says "Contoh : 31 / 12 / 2018".
- Bahan Pangan:** A text input field with the value "Beras". Below it, a hint text says "Contoh : Beras".
- Stok Rata-Rata Bahan Pangan:** A number input field with the value "50". Below it, a hint text says "Contoh : 50".
- Satuan Stok Bahan Pangan:** A group of radio buttons with labels: "Ton", "Kwintal", "Kilogram" (which is selected), "Gram", "Ons", and "Liter". Below it, a hint text says "Contoh : Kilogram".
- Harga Rata-Rata Bahan Pangan Per Kilogram (KG):** A number input field with the value "5000". Below it, a hint text says "Contoh : 10000".

## 8. Berhasil Input

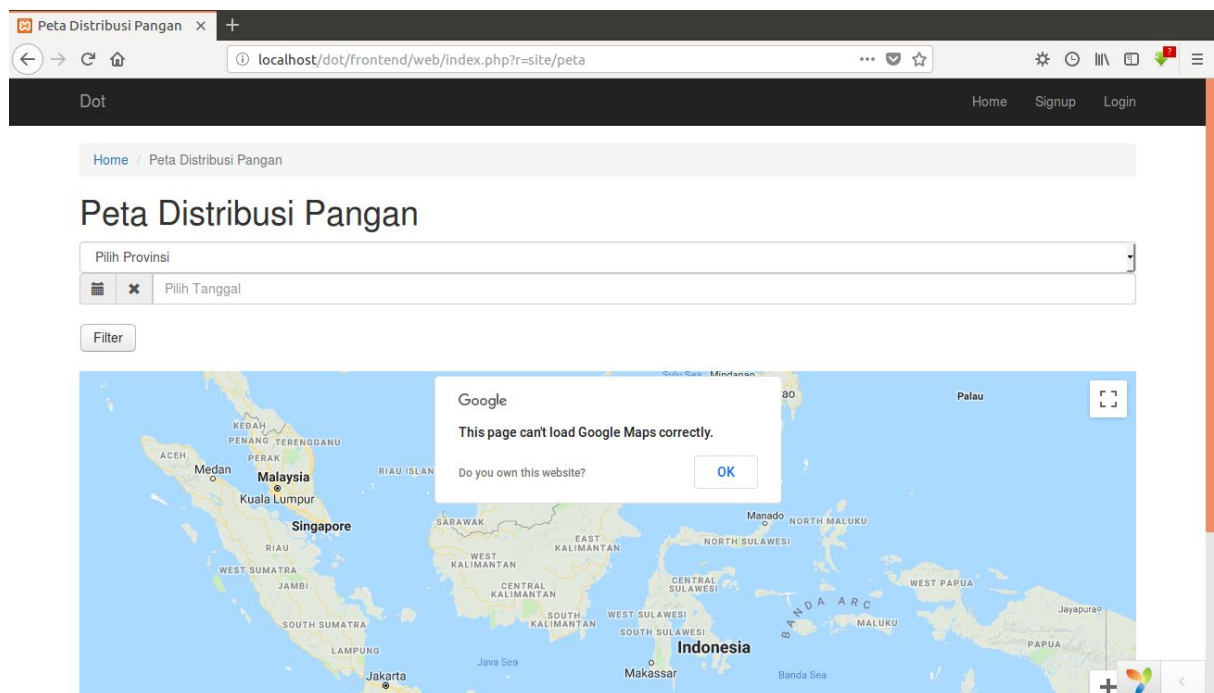


## Testing Peta Distribusi Pangan (Frontend)

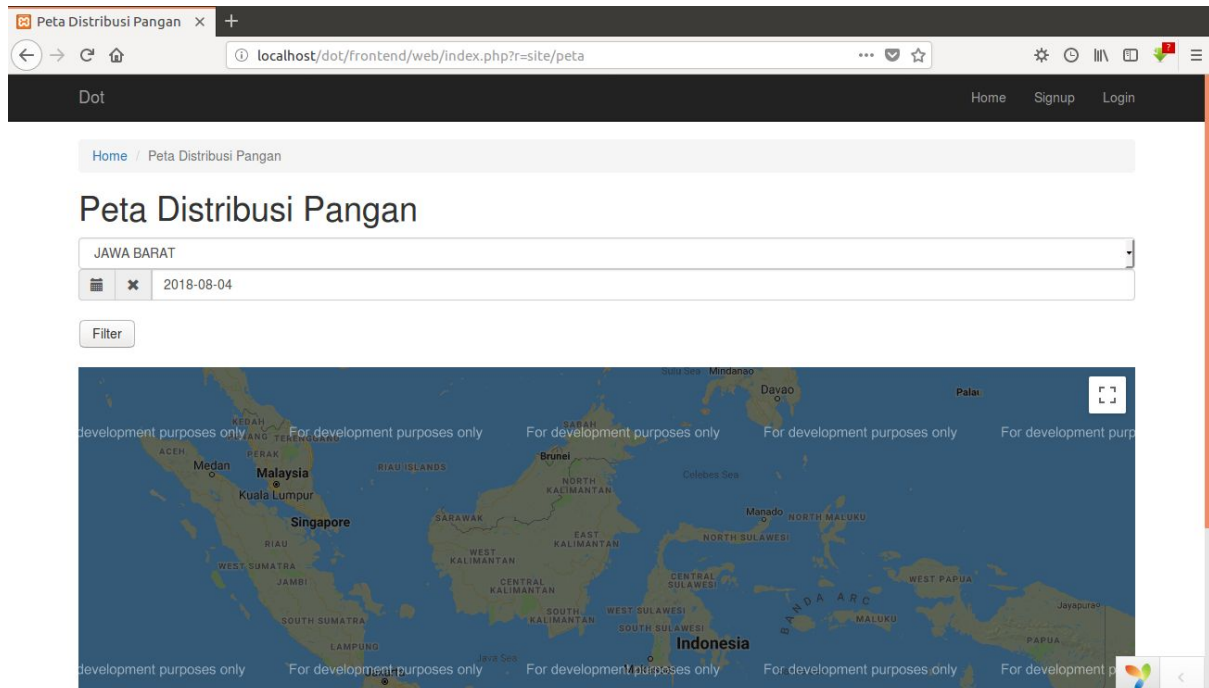
### 1. Link ke Form Peta Distribusi Pangan



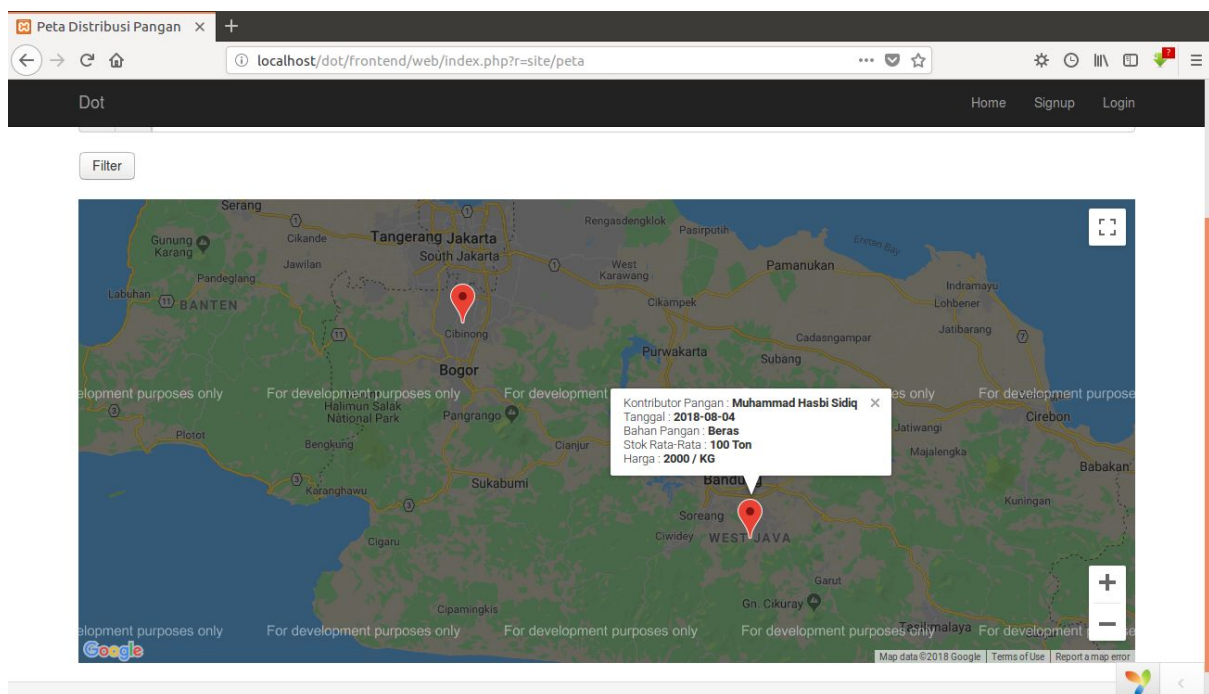
### 2. Form Peta Distribusi Pangan



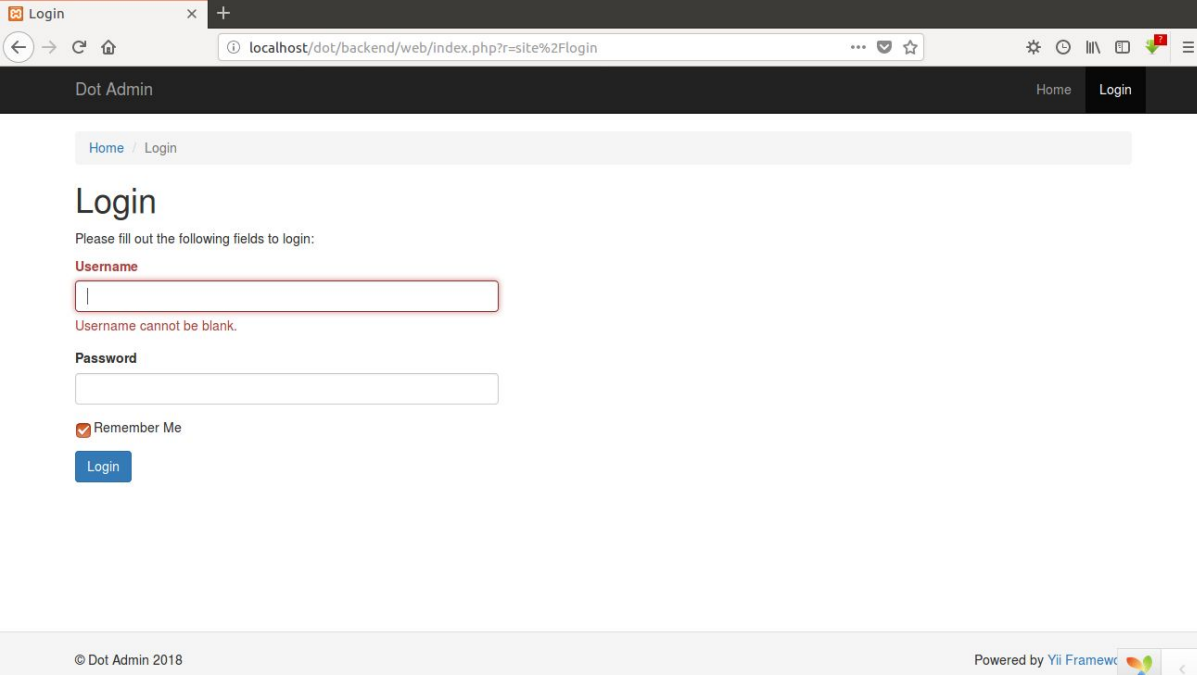
### 3. Sample Filter



### 4. Berhasil Filter



## Testing Landing Page (Backend)



The screenshot shows a web browser window with the address bar displaying `localhost/dot/backend/web/index.php?r=site%2Flogin`. The page title is "Login". Below the title, there is a message: "Please fill out the following fields to login:". The form contains two input fields: "Username" and "Password". The "Username" field has a red border and a red error message below it: "Username cannot be blank.". There is a "Remember Me" checkbox which is checked. A blue "Login" button is at the bottom of the form. The footer of the page shows "© Dot Admin 2018" and "Powered by Yii Framework" with the Yii logo.

Dot Admin

Home Login

Home / Login

### Login

Please fill out the following fields to login:

**Username**

Username cannot be blank.

**Password**

☒ Remember Me

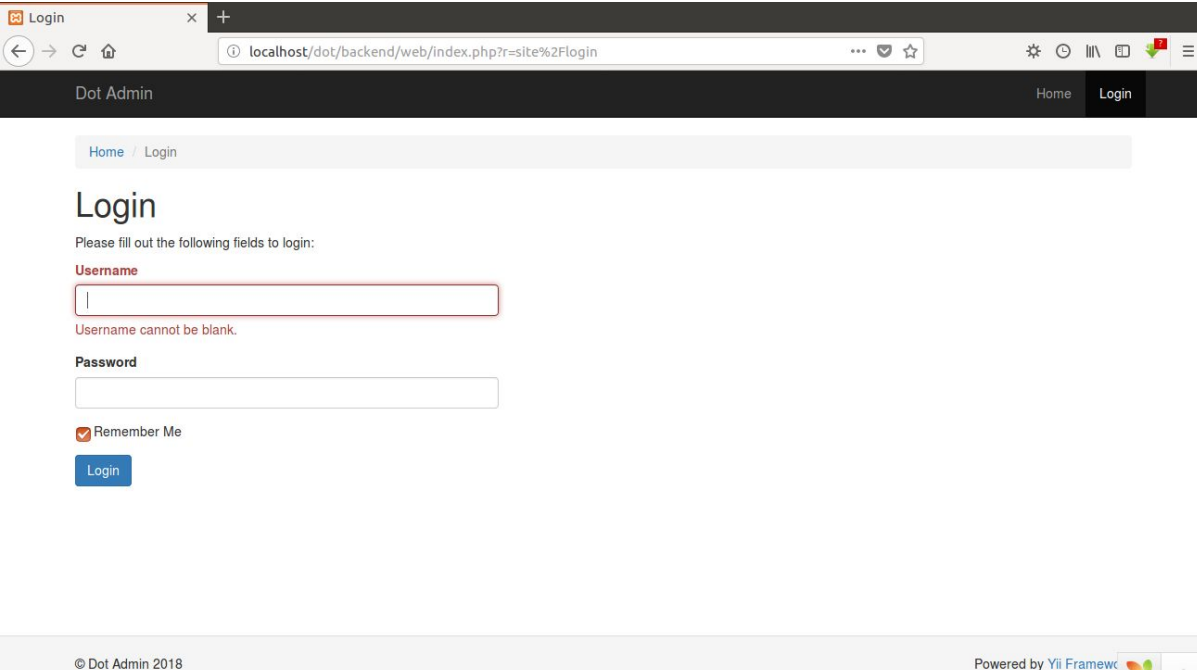
Login

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## Testing Administrator (Backend)

### 1. Form Login



This screenshot is identical to the one above, showing the Dot Admin Login page. The browser address bar shows `localhost/dot/backend/web/index.php?r=site%2Flogin`. The form fields for "Username" and "Password" are present, with the "Username" field having a red border and the error message "Username cannot be blank.". The "Remember Me" checkbox is checked, and the blue "Login" button is at the bottom. The footer includes "© Dot Admin 2018" and "Powered by Yii Framework" with the Yii logo.

Dot Admin

Home Login

Home / Login

### Login

Please fill out the following fields to login:

**Username**

Username cannot be blank.

**Password**

☒ Remember Me

Login

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## 2. Validasi Form Login

The screenshot shows a web browser window with the address bar displaying `localhost/dot/backend/web/index.php?r=site%2Flogin`. The page title is "Login". The navigation bar includes "Dot Admin" and links for "Home" and "Login". The breadcrumb trail is "Home / Login". The main heading is "Login". Below it, a message says "Please fill out the following fields to login:". The form has two input fields: "Username" and "Password". Both fields have red borders and red error messages below them: "Username cannot be blank." and "Password cannot be blank." respectively. There is a checked checkbox labeled "Remember Me" and a blue "Login" button. The footer contains "© Dot Admin 2018" and "Powered by Yii Framework" with a logo.

Login

Please fill out the following fields to login:

**Username**

Username cannot be blank.

**Password**

Password cannot be blank.

☒ Remember Me

Login

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## 3. Sample Form Login

The screenshot shows the same web browser window as before, but the login form is now filled with sample data. The "Username" field contains the text "admin" and the "Password" field contains six asterisks "\*\*\*\*\*". The "Remember Me" checkbox is still checked, and the "Login" button is still present. The rest of the page, including the navigation bar, breadcrumb trail, and footer, remains the same.

Login

Please fill out the following fields to login:

**Username**

**Password**

☒ Remember Me

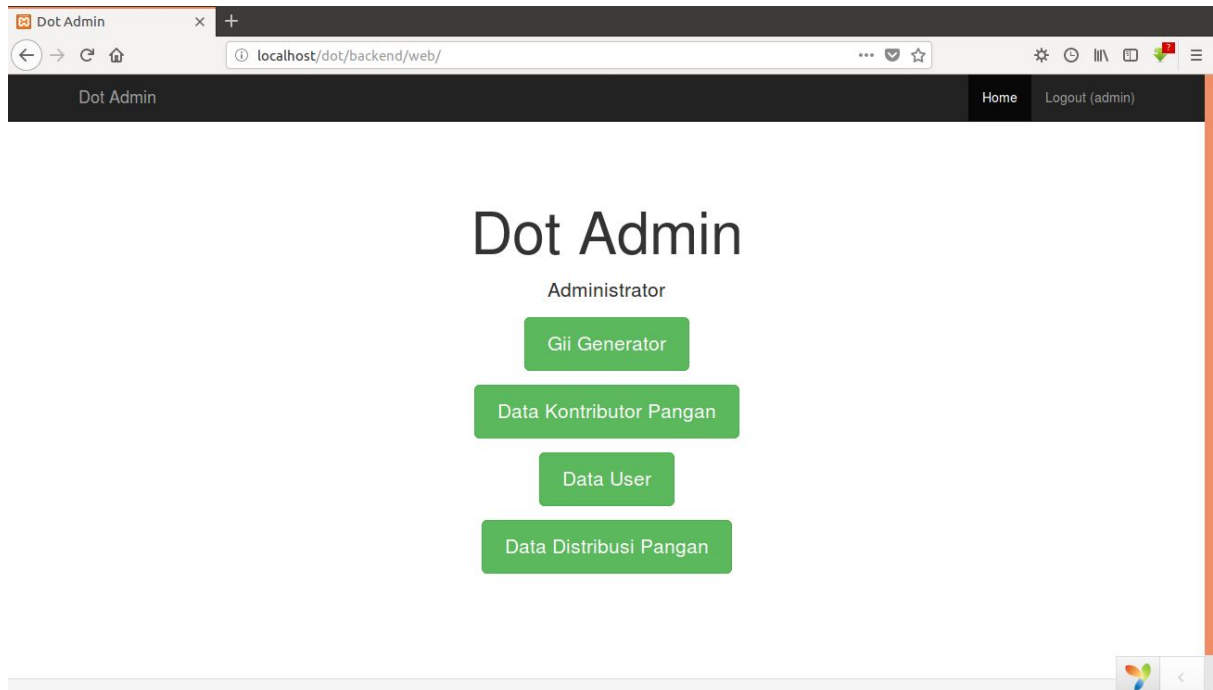
Login

© Dot Admin 2018

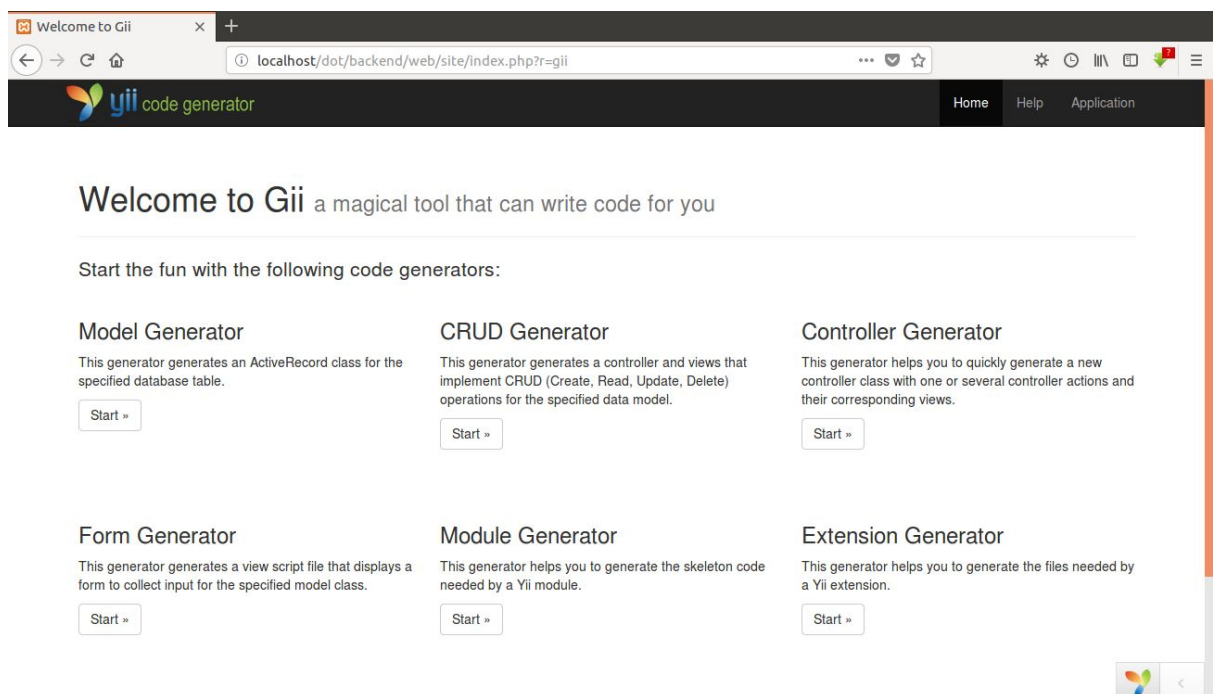
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## 4. Form Administrator



## 5. Form Gii Generator



## 6. Form Kontributor Pangan

Data Kontributor Pangan

localhost/dot/backend/web/index/php?r=kontributor-pangan

Dot AdminHomeLogout (admin)

Home / Data Kontributor Pangan

### Data Kontributor Pangan

Showing 1-3 of 3 items.

#	Nomor Induk Kependudukan	Nama Lengkap	No Handphone	Email	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
1	32-01-01-21-03-99-0008	Muhammad Azhar Rasyad	+6281290351971	muhazharrasyad@gmail.com	
2	23-10-10-12-30-99-8000	Muhammad Hasbi Sidiq	+6281234252345	mhasbisidiq@gmail.com	
3	14-78-12-64-82-68-4726	Naufal Afif Fadhlullah	+6281281738123	naufif@gmail.com	

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## 7. Form User

Data User

localhost/dot/backend/web/index/php?r=user

Dot AdminHomeLogout (admin)

Home / Data User

### Data User

Showing 1-4 of 4 items.

#	Role	Username	Hint Password	Email	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
1	Administrator	admin	123456	admin@admin.com	
2	Kontributor	mazharrasyad	rahasia	mazharrasyad@gmail.com	
3	Kontributor	mhasbisidiq	gaktau	mhasbisidiq@gmail.com	
4	Kontributor	naufif	password	naufif@gmail.com	

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## 8. Form Distributor Pangan

Data Distribusi Pangan

localhost/dot/backend/web/index/php?r=distribusi-pangan

Dot AdminHomeLogout (admin)

Home / Data Distribusi Pangan

### Data Distribusi Pangan

Showing 1-10 of 10 items.

#	Nama Kontributor Pangan	Tanggal	Bahan Pangan	Stok Rata-Rata	Harga Rata-Rata	
1	Muhammad Azhar Rasyad	2018-08-04	Beras	500 Kilogram	2000 / KG	
2		2018-08-03	Gula	100 Kilogram	1000 / KG	
3		2018-08-02	Garam	200 Kwintal	5000 / KG	
4	Muhammad Hasbi Sidiq	2018-08-04	Beras	100 Ton	2000 / KG	
5		2018-07-29	Ketan	10 Kwintal	500 / KG	
6		2018-08-02	Garam	100 Ton	1000 / KG	
7	Naufal Afif Fadhlillah	2018-08-04	Beras	1000 Ton	5500 / KG	
8		2018-07-31	Minyak	100 Liter	6000 / KG	
9		2018-07-30	Singkong	10000 Ons	1500 / KG	
10	Muhammad Azhar Rasyad	2018-07-29	Kelapa	100 Kilogram	5500 / KG	

## **Step 10 : Release early Release often**

<https://github.com/mazharrasyad/Dot>