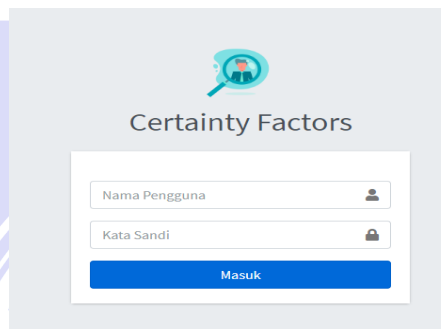


BAB IV

IMPLEMENTASI DAN PENGUJIAN

4.1. Tampilan Hasil

1. Halaman *Login*

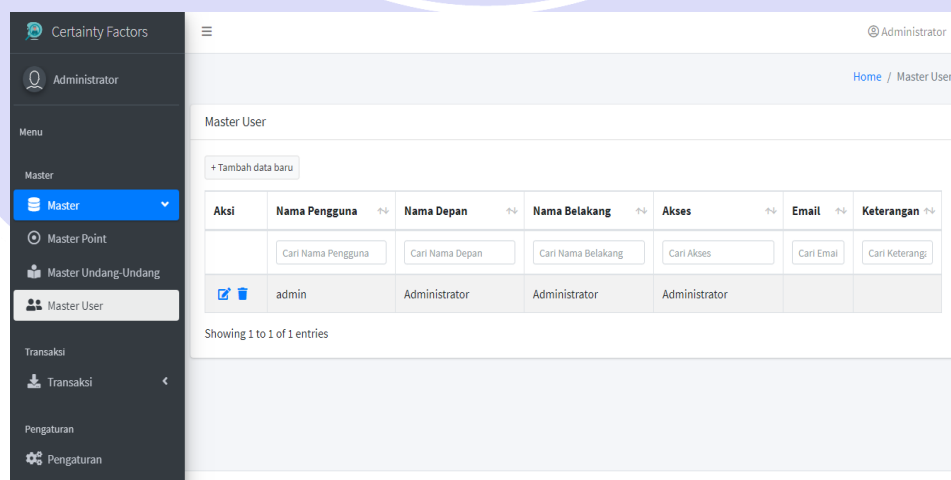


Gambar IV.1.

Halaman *Login*

Halaman *login* diperuntukan bagi admin yang akan melakukan pengelolaan terhadap data pelanggan perusahaan, dimana halaman ini menampilkan form input login dengan field *username* dan *password*.

2. Halaman Master

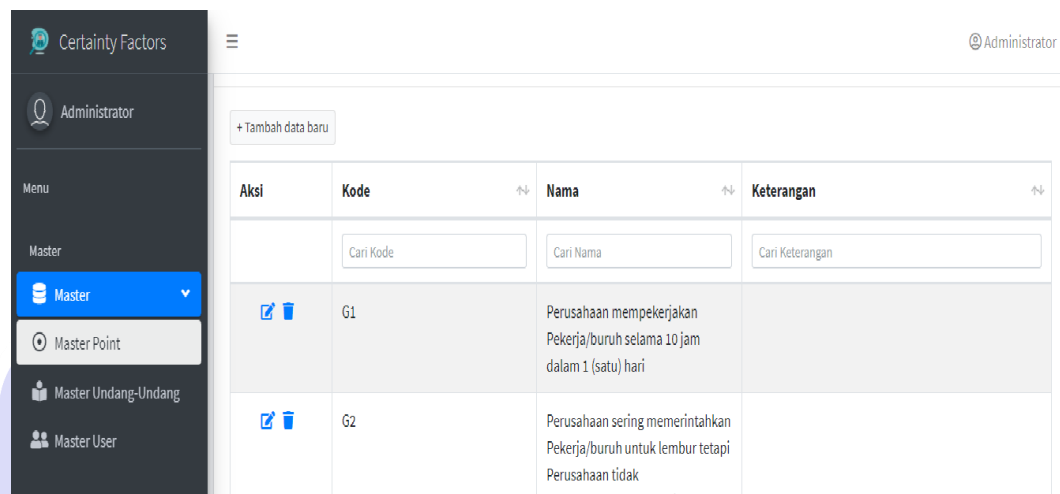


Aksi	Nama Pengguna	Nama Depan	Nama Belakang	Akses	Email	Keterangan
 	admin	Administrator	Administrator	Administrator		

Gambar IV.2.

Halaman Master

3. Tampilan Poin Master

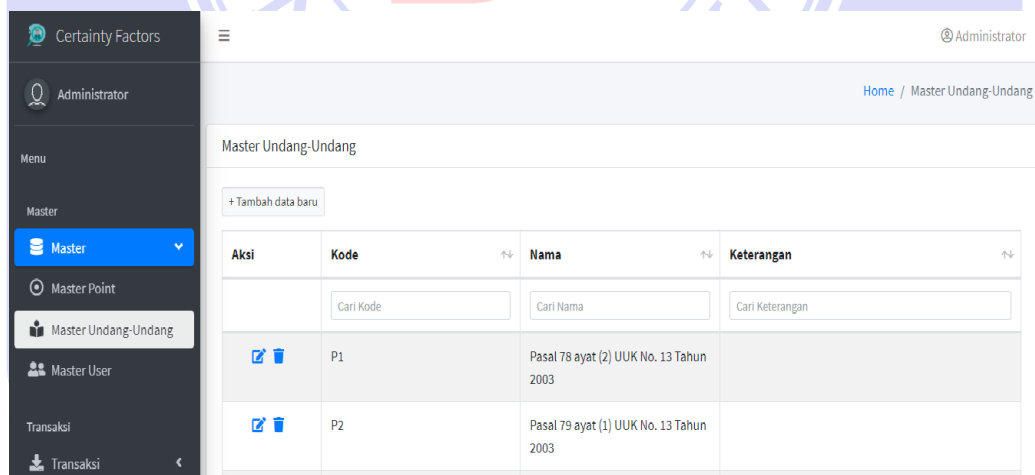


Aksi	Kode	Nama	Keterangan
	Cari Kode	Cari Nama	Cari Keterangan
 	G1	Perusahaan mempekerjakan Pekerja/buruh selama 10 jam dalam 1 (satu) hari	
 	G2	Perusahaan sering memerintahkan Pekerja/buruh untuk lembur tetapi Perusahaan tidak mempekerjakan Pekerja/buruh	

Gambar IV.3.

Tampilan Poin Master

4. Tampilan Master Undang-Undang

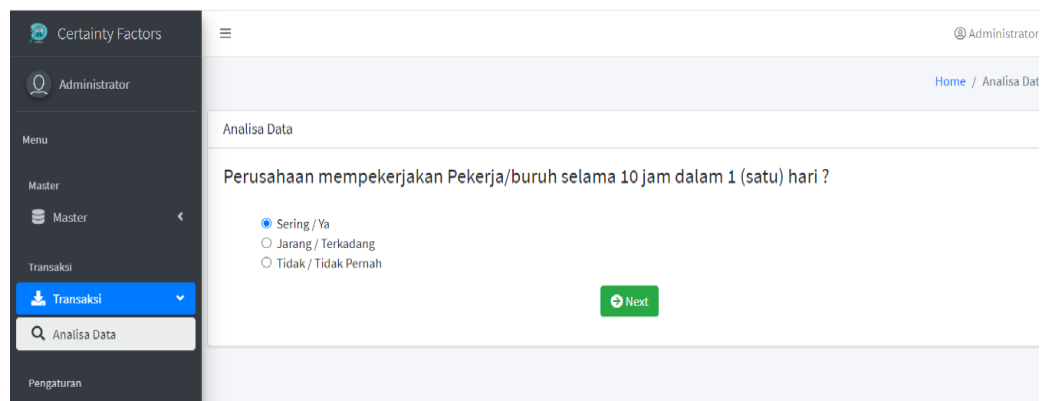


Aksi	Kode	Nama	Keterangan
	Cari Kode	Cari Nama	Cari Keterangan
 	P1	Pasal 78 ayat (2) UUK No. 13 Tahun 2003	
 	P2	Pasal 79 ayat (1) UUK No. 13 Tahun 2003	

Gambar IV.4.

Tampilan Master Undang-Undang

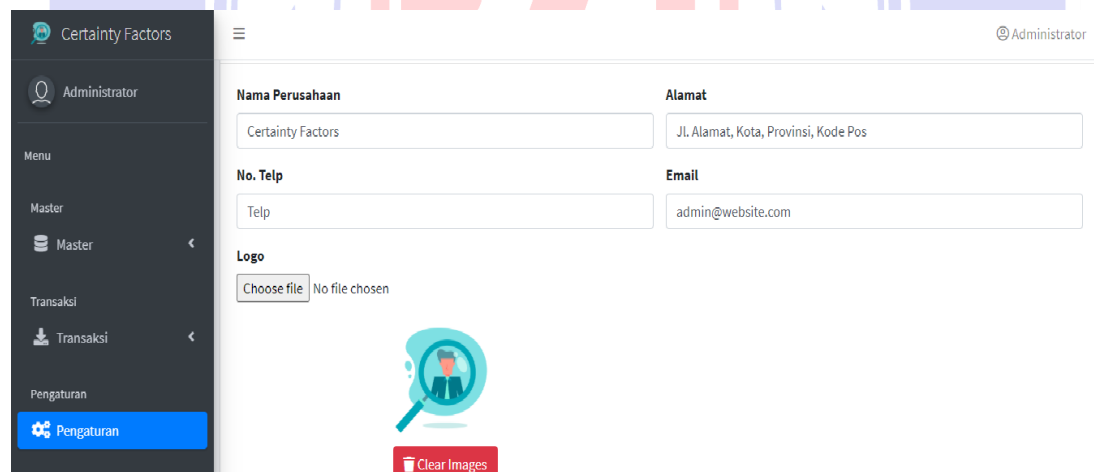
5. Tampilan Transaksi atau Analis Data



The screenshot shows the 'Analisa Data' form in the Certainty Factors application. The left sidebar contains a menu with 'Transaksi' and 'Analisa Data' options. The main content area displays a question: 'Perusahaan mempekerjakan Pekerja/buruh selama 10 jam dalam 1 (satu) hari ?'. Below the question are three radio button options: 'Sering / Ya' (selected), 'Jarang / Terkadang', and 'Tidak / Tidak Pernah'. A green 'Next' button is located at the bottom right of the form.

Gambar IV.5.
Tampilan Transaksi atau Analis Data

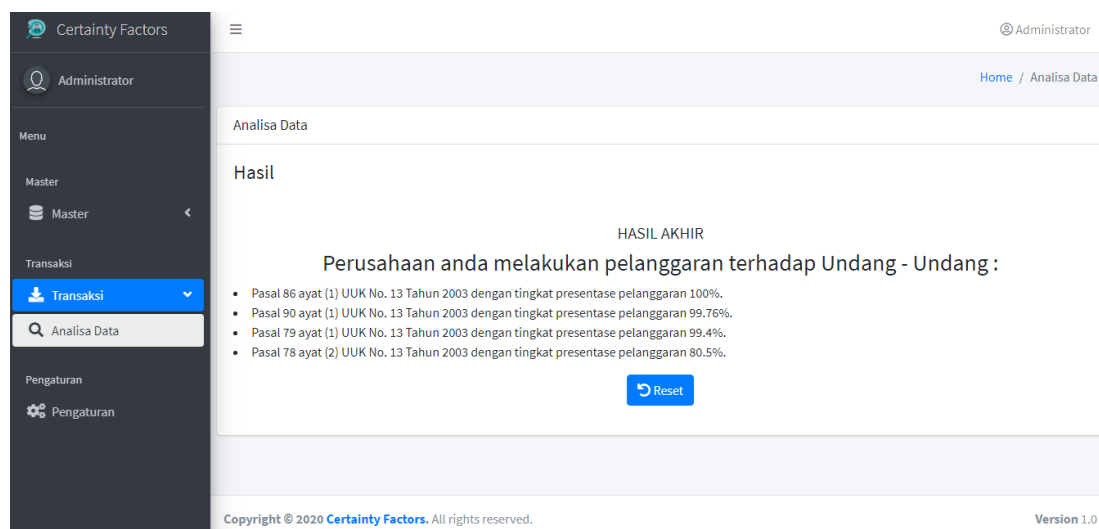
6. Tampilan Pengaturan



The screenshot shows the 'Pengaturan' (Settings) form in the Certainty Factors application. The left sidebar contains a menu with 'Pengaturan' selected. The main content area displays a form with the following fields: 'Nama Perusahaan' (filled with 'Certainty Factors'), 'Alamat' (filled with 'Jl. Alamat, Kota, Provinsi, Kode Pos'), 'No. Telp' (filled with 'Telp'), and 'Email' (filled with 'admin@website.com'). There is also a 'Logo' section with a 'Choose file' button and the text 'No file chosen'. A 'Clear Images' button is located at the bottom center of the form.

Gambar IV.6.
Tampilan Pengaturan

7. Tampilan Hasil Data Analisa Terakhir



Gambar IV.7.

Tampilan Hasil Data Analisa Terakhir

4.2. Cara Kerja Aplikasi

Nama : Proses perhitungan dengan metode certainty factor

```
class AnalisaData extends Base_Controller
```

```
{
```

```
    public function __Construct()
```

```
    {
```

```
        parent::__Construct();
```

```
        // Load Models
```

```
        $this->load->model("MasterPointModels");
```

```
        $this->load->model("MasterUndangUndangModels");
```

```

// Load Library

$this->load->library("Dto/Globals/SelectListObj");


// If not logged in in, redirect to login
if (!$this->session->userdata('logged_in')) {

    redirect(base_url());

}


$this->PageType = $this->config->item('Admin_Page');
}
public function index()
{

    $this->session->set_userdata('page', $this->config->item("TransAnalisaData"));

    $this->load->view('frame/_HeaderView', $this->Data);

    $this->load->view('frame/menu/_HeaderMenuView', $this->Data);

    $this->load->view('trans/analysadata/AnalisaDataView', $this->Data);

    $this->load->view('frame/menu/_FooterMenuView', $this->Data);

    $this->load->view('script/trans/analysadata/AnalisaDataScript', $this->Data);

}

public function GetListDataPoint()
{

```

```
$listData = $this->MasterPointModels->GetListData();
```

```
header('Content-Type: application/json');
```

```
echo json_encode($listData);
```

```
}
```

```
public function Calculate()
```

```
{
```

```
$data = $this->input->post();
```

```
$listID = [];
```

```
$listAnswer = [];
```

```
for ($i = 0; $i < count($data["Answer"]); $i++) {
```

```
    $dataSplit = explode(";", $data["Answer"][$i]);
```

```
    array_push($listID, (int)$dataSplit[0]);
```

```
    array_push($listAnswer, (float)$dataSplit[1]);
```

```
}
```

```
$listDataUU = $this->MasterUndangUndangModels-
```

```
>GetListDataUndangUndang();
```

```
foreach ($listDataUU as $value) {
```

```
    //$total = 0;
```

```
    $presentase = 0;
```

```

$listDataDetailUU = $this->MasterUndangUndangModels-
>GetListDataDetailByUndangUndangCode($value->code);

if ($listDataDetailUU > 0) {

    // Menghitung CFHE

    foreach ($listDataDetailUU as $value2) {

        for ($i = 0; $i < count($listID); $i++) {

            if ($listID[$i] == $value2->point_id) {

                //$total += $listAnswer[$i];

                $value2->CFHE = $value2-
>nilai_cf * $listAnswer[$i];

            }

        }

        //Menghitung CFCombine

        $scfCombine = 0;

        for ($i = 0; $i < count($listDataDetailUU)-1; $i++) {

            if ($i == 0){

                $scfCombine = $listDataDetailUU[$i]-
>CFHE;

            }

            $scfCombine = $scfCombine +

            $listDataDetailUU[$i+1]->CFHE * (1-$scfCombine);

        }
    }
}

```

```

    }

    if ($listDataDetailUU > 0) {

        $presentase = round($scfCombine * 100,2);

    }

    $value->presentase = $presentase;

}

$listReturn = [];
foreach ($listDataUU as $value) {
    if ($value->presentase > 0) {
        array_push($listReturn, $value);
    }
}

usort($listReturn, function ($a, $b) {return $a->presentase < $b-
>presentase;});

header('Content-Type: application/json');

echo json_encode($listReturn);

}

private function MapToSelectList($Data)

{

    $retData = [];

```

```

$defaultItem = new SelectListObj();

$defaultItem->value = "";

$defaultItem->text = "-- Select Item --";

$retData[] = $defaultItem;

if (!is_null($Data)) {

    foreach ($Data as $value) {

        $item = new SelectListObj();

        $item->value = $value->code;

        $item->text = $value->name;

        $retData[] = $item;

    }

}

return $retData;

}

private function ShowAlert($result)

{

    $this->session->set_userdata('alert', true);

    $this->session->set_userdata('alert_types', ($result['status']) ? $this->config->item('Success') : $this->config->item('Error'));

    $this->session->set_userdata('alert_messages', $result['messages']);

}

}

/* End of file */

```

4.3. Hasil Pengujian

Tabel IV.1.

Pengujian Aplikasi

Pengujian Aplikasi				
No.	Data Masukan	Data Diharapkan	Pengamatan	Kesimpulan
1.	User : admin Pasword : admin	Mempunyai hak akses untuk mengelolas seluruh sistem	Datap membuka seluruh menu sistem dalam aplikasi yang dibuat	[X] Diterima [] Ditolak
2.	Master Web	Masuk Ke menu utama, dapat pengimputan data user baru	Dapat mengeloala data pengimputan baru	[X] Diterima [] Ditolak
3.	Poin Master	Masuk Ke menu utama, dapat pengimputan undang-undang-undang teruptudet	Dapat mengelola data undang-undang teruptudat	[X] Diterima [] Ditolak
4.	Transaksi atau Ananilsa Data	Masuk Ke menu utama, dapat pengajukan pertanyaan seputar permasalahan	Dapat mengases pertanyaan seputar permasalahan	[X] Diterima [] Ditolak
5.	Pengaturan	Masuk ke menu Pengaturan	Dapat melihat pengaturan permasalahan	[X] Diterima [] Ditolak