**LAPORAN MANAJEMENT PROYEK TEKNOLOGI INFORMASI**

**PEMBANGUNAN SISTEM INFORMASI DESA JATITUJUH**

**KANTOR PEMERINTAH DESA JATI TUJUH**

**Poin 1**



Oleh :

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**FAKULTAS TEKNOLOGI INDUSTRI**

**PRODI TEKNIK INFORMATIKA**

**UNIVERSITAS AHMAD DAHLAN**

**YOGYAKARTA**

**2022**

**DIAGRAM PATH / LISTING KODE**

**Point 2**

**Navbar halaman pengunjung**

<div class ="container py-4">

<img src="/img/logo-desajatituju.png" width="45px" height="60px" alt="" srcset="">

<p class="box-title-desa">

<span class="desa-1">DESA JATITUJUH</span><br>

<span class="desa-2">KECAMATAN JATITUJUH</span><br>

<span class="desa-3">KABUPATEN MAJALENGKA</span>

</p>

<button class="navbar-toggler" type="button" data-bs- toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria- expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarNav">

<ul class="navbar-nav">

<li class="nav-item">

<a class="nav-link" href="<?php echo base\_url('/');?>">HOME</a>

</li>

<div class="dropdown">

<li class="nav-item">

<a class="nav-link dropdown-toggle" href="#" role="button" id="dropdownMenuLink" data-bs-toggle="dropdown" aria- expanded="false">PROFILE</a>

<ul class="dropdown-menu bg-dark text-white" aria- labelledby="dropdownMenuLink">

<li><a class="dropdown-item" href="<?php echo base\_url('/sejarah-desa');?>">Sejarah Desa</a></li>

<li><a class="dropdown-item" href="<?php echo base\_url('/pemerintahan-desa');?>">Pemerintahan Desa</a></li>

<li><a class="dropdown-item" href="<?php echo base\_url('/visi-misi');?>">Visi Misi</a></li>

<li><a class="dropdown-item"

href="#">Demografi</a></li>

<li><a class="dropdown-item"

href="#">Statistik</a></li>

<li><a class="dropdown-item" href="#">Kelembagaan</a></li>

</ul>

</li>

</div>

<div class="dropdown">

<li class="nav-item">

<a class="nav-link dropdown-toggle" href="#" role="button" id="dropdownMenuLink" data-bs-toggle="dropdown" aria- expanded="false">INFORMASI PUBLIK</a>

<ul class="dropdown-menu bg-dark text-white" aria- labelledby="dropdownMenuLink">

<li><a class="dropdown-item"

href="#">Berita</a></li>

<li><a class="dropdown-item"

href="#">Event</a></li>

<li><a class="dropdown-item"

href="#">Galeri</a></li>

</ul>

</li>

</div>

<li class="nav-item">

<a class="nav-link" href="#">PENGUMUMAN</a>

</li>

<div class="dropdown">

<li class="nav-item">

<a class="nav-link dropdown-toggle" href="#" role="button" id="dropdownMenuLink" data-bs-toggle="dropdown" aria- expanded="false">HELLO DESA</a>

<ul class="dropdown-menu bg-dark text-white" aria- labelledby="dropdownMenuLink">

<li><a class="dropdown-item" href="<?php echo base\_url('/kontak');?>">Kontak</a></li>

<li><a class="dropdown-item" href="#">Laporan

Terkini</a></li>

</ul>

</li>

</div>

<li class="nav-item">

<a class="nav-link">|</a>

</li>

<li class="nav-item">

<a class="nav-link" href="#"><i class="fa-solid fa- magnifying-glass"></i></a>

</li>

<li class="nav-item">

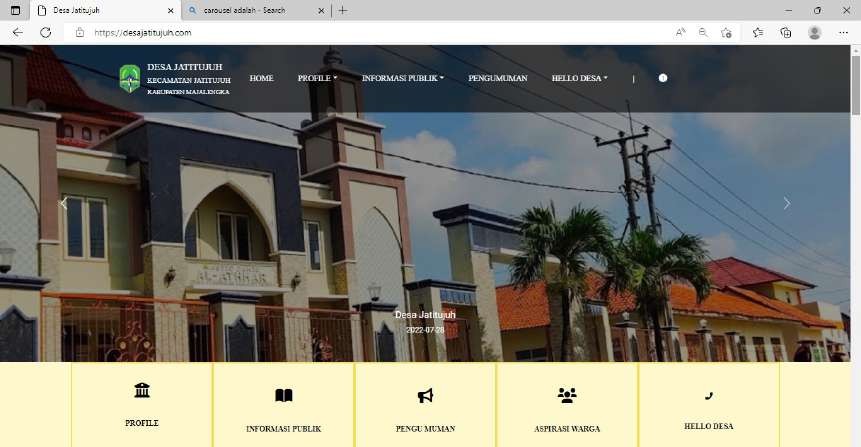
<a class="nav-link" href="#"><i class="fa-solid fa- circle-exclamation"></i></a>

</li>

</ul>

</div>

</div>

**Sorce code controller pengunjung.php**

<!-- start navbar -->

<?= $this->extend('layout/page\_layout') ?>

<!-- end navbar -->

<!-- start carousel -->

<?= $this->Section('content') ?>

<div id="carouselExampleControls" class="carousel slide carousel-fade" data-bs-ride="carousel">

<div class="carousel-indicators">

<button type="button" data-bs-target="#carouselExampleCaptions" data- bs-slide-to="0" class="active" aria-current="true" aria-label="Slide 1"></button>

<button type="button" data-bs-target="#carouselExampleCaptions" data- bs-slide-to="1" aria-label="Slide 2"></button>

<button type="button" data-bs-target="#carouselExampleCaptions" data- bs-slide-to="2" aria-label="Slide 3"></button>

</div>

<div class="carousel-inner">

<div class="carousel-item active" data-bs-interval="2000">

<img src="/img/desajatituju.jpg" class="img-size d-block w-100" alt="...">

<div class="carousel-caption d-none d-md-block">

<h5>First slide label</h5>

<p>Some representative placeholder content for the first

slide.</p>

</div>

</div>

<div class="carousel-item" data-bs-interval="2000">

<img src="/img/WhatsApp Image 2022-04-26 at 21.29.46.jpeg" class="img-size d-block w-100" alt="...">

<div class="carousel-caption d-none d-md-block">

<h5>Second slide label</h5>

<p>Some representative placeholder content for the second

slide.</p>

</div>

</div>

<div class="carousel-item" data-bs-interval="2000">

<img src="/img/WhatsApp Image 2022-04-26 at 21.30.05.jpeg" class="img-size d-block w-100" alt="...">

<div class="carousel-caption d-none d-md-block">

<h5>Third slide label</h5>

<p>Some representative placeholder content for the third

slide.</p>

</div>

</div>

</div>

<button class="carousel-control-prev" type="button" data-bs- target="#carouselExampleControls" data-bs-slide="prev">

<span class="carousel-control-prev-icon" aria-hidden="true"></span>

<span class="visually-hidden">Previous</span>

</button>

<button class="carousel-control-next" type="button" data-bs- target="#carouselExampleControls" data-bs-slide="next">

<span class="carousel-control-next-icon" aria-hidden="true"></span>

<span class="visually-hidden">Next</span>

</button>

</div>

<!-- end carousel -->

<!-- start menu button -->

<div class="box-btn">

<!-- <div class="box-btn-link text-center">

<a href="#" class="">

<i class="fa-solid fa-house-user"></i><br> HOME

</a>

<a href="#" class="">

<i class="fa-solid fa-house-user"></i><br> INFORMASI PUBLIK

</a>

<a href="#" class="">

<i class="fa-solid fa-house-user"></i> HOME

</a>

<a href="#" class="">

<i class="fa-solid fa-house-user"></i> HOME

</a>

<a href="#" class="">

<i class="fa-solid fa-house-user"></i> HOME

</a>

<a href="#" class="">

<i class="fa-solid fa-house-user"></i> HOME

</a>

</div> -->

<div class="d-flex justify-content-center bg-flex">

<div class="btn-menu text-center">

<div class="btn-icon">

<i class="fa-solid fa-building-columns fa-4x"></i>

</div>

<div class="btn-text">

<p>PROFILE</p>

</div>

</div>

<div class="btn-menu text-center">

<div class="btn-icon">

<i class="fa-solid fa-book-open fa-4x"></i>

</div>

<div class="btn-text">

<p>INFORMASI PUBLIK</p>

</div>

</div>

<div class="btn-menu text-center">

<div class="btn-icon">

<i class="fa-solid fa-bullhorn fa-4x"></i>

</div>

<div class="btn-text">

<p>PENGUMUMAN</p>

</div>

</div>

<div class="btn-menu text-center">

<div class="btn-icon">

<i class="fa-solid fa-users fa-4x"></i>

</div>

<div class="btn-text">

<p>ASPIRASI WARGA</p>

</div>

</div>

<div class="btn-menu text-center">

<div class="btn-icon">

<i class="fa-solid fa-phone fa-4x"></i>

</div>

<div class="btn-text">

<p>HELLO DESA</p>

</div>

</div>

</div>

</div>

<!-- end menu button -->

**Halaman login admin**

public function auth() {

$validation = $this->validate([ 'user' => [

'rules' => 'required', 'errors' => [

'required' => 'Username tidak boleh kosong',

]

],

'pass' => [

'rules' => 'required', 'errors' => [

'required' => 'Password tidak boleh kosong',

]

],

]);

Controller login.php

<?php

namespace App\Controllers; use App\Models\ModelLogin;

class Login extends BaseController

{

public function construct()

{

$this->model = new ModelLogin();

}

public function index()

{

return view('sides/dashbord/login/index');

}

public function auth()

{

$validation = $this->validate([ 'user' => [

'rules' => 'required', 'errors' => [

'required' => 'Username tidak boleh kosong',

]

],

'pass' => [

'rules' => 'required', 'errors' => [

'required' => 'Password tidak boleh kosong',

]

],

]);

if (!$validation) {

return redirect()->to('auth')->withInput();

} else {

$user = $this->request->getPost('user');

$pass = $this->request->getPost('pass');

$isSucces = $this->prosesAuth($user, $pass); return $isSucces;

}

}

public function prosesAuth($user, $pass)

{

$model = $this->model->isAkun($user); if (!$model) {

session()->setFlashdata('alert', true); return redirect()->to('/auth');

}

// dd(password\_hash("admin", PASSWORD\_BCRYPT)); if (!password\_verify($pass, $model->password)) { session()->setFlashdata('alert', true);

return redirect()->to('/auth');

} else {

$newdata = [

'username' => $user,

'password' => $model->password, 'level' => $model->level, 'isLogged' => true

];

session()->set($newdata); return redirect()->to('sides');

}

}

}

Model akun.php

<?php

namespace App\Models; use CodeIgniter\Model;

class ModelAkun extends Model

{

protected $table = 'akun'; protected $primaryKey = 'id'; protected $allowedFields = [

'nama\_depan', 'nama\_belakang', 'username',

'password',

'level',

'email', 'nomor\_hp'

];

protected $useTimestamps = true; protected $createdField = 'created\_at'; protected $updatedField = 'updated\_at'; public function construct()

{

$this->database = db\_connect();

}

public function show()

{

$sql = "

SELECT \* FROM akun

";

return $this->database->query($sql)->getResult();

}

public function getAkunById($id)

{

$sql = "

SELECT

\* FROM akun

WHERE akun.id = '" . $id . "'

";

return $this->database->query($sql)->getRow();

}

// public function update()

// {

// return $this->database->update($data, ['id' => $id]);

// }

public function updateById($data, $id)

{

return $this->database->table('akun')->update($data, ['id' =>

$id]);

}

public function deleteById($id)

{

return $this->database->delete(['id' => $id]);

}

public function checkUsername($username)

{

$sql = "

SELECT

akun.username FROM akun

WHERE akun.username = '" . $username . "'

";

return $this->database->query($sql)->getRow();

}

// ... }

**DIAGRAM AUTH**

1. Start
2. If username & password = true
3. Proses 🡪 Halaman admin
4. Else if username & password = false
5. Proses 🡪 Halaman login Admin
6. End if
7. Halaman Pengunjung
8. If data > 0
9. Add new data
10. Else if ! data > 0
11. Error add data
12. End

**Cyclomatic complexity**

**Point 3**

1. Pertama 1 sampai 12
2. Kedua 1-2-3 4-12
3. Ketiga 1-2-3-7-8-12
4. Keempat 1-2-3-7-8-10-11

Cyclomatix complexity V (G) untuk grafik alir di hitung dengan rumus

V(G) = E – N + 2

Dimana :

E = Jumlah edgen pada grafik alir

N = Jumlah node pada grafik alir

Pada Path yang telah di buat dapat di hitung

1. Flowgraph mempunyai 4 region
2. V(G) = 14 edge – 12 node + 3 = 5
3. V(G) = 4 predicate node + 1 = 5

jadi, cyclomatic complexity untuk flowgraph adalah

**TABLE KOMPLEKSITAS**

**Point 4**

* **Table 1** 1 sampai 12

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |

**Table 2** 1-2-3 4-12

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  | 0 |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  | 0 |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  | 0 |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  | 0 |

**Table 3** 1-2-3-37-8-12

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  | 0 |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  | 0 |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  | 0 |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  | 0 |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |

Table 4 1-2-3-7-8-10-11

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  | 0 |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  | 0 |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  | 0 |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  | 0 |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  | 0 |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |

**SKENARIO UJI**

**Point 5**

Pengujian white-box

* Halaman login admin
* Halaman Admin
* Halaman pengguna

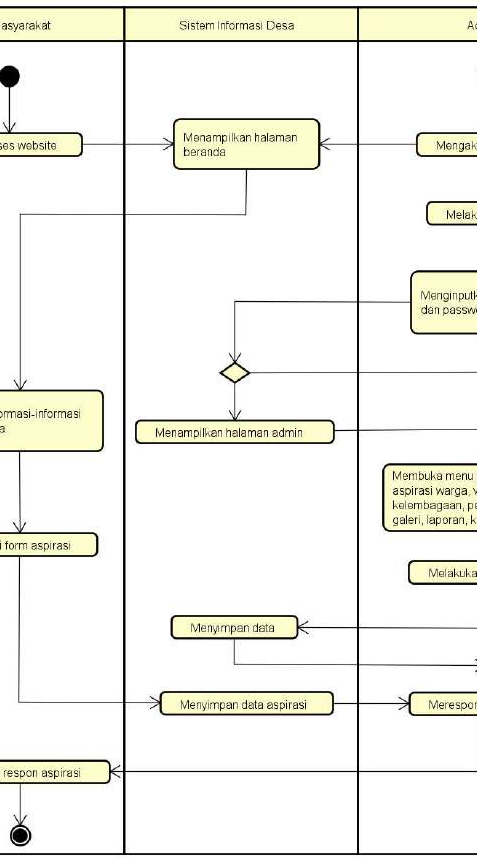
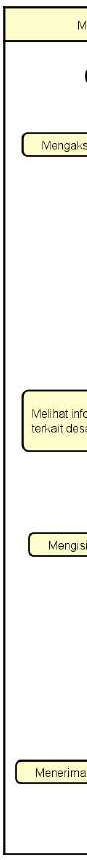
Pengujian black-box

* Sekenario pengujian 1 : mengecek login halaman login admin
* Sekenario pengujian 2 : mengecek validasi ketika password salah dan username benar pada halaman login admin
* Sekenario pengujian 3 : mengecek validasi ketika memasukan username tidak valid dan password valid
* Sekenario pengujian 4 : mengecek validasi ketika username dan password kosong ketika login di halaman admin
* Sekenario pengujian 5 : mengecek validasi ketika username kosong dan password valid pada halaman login admin
* Sekenario pengujian 6 : mengecek validasi ketika username benar dan password kosong
* Sekenario pengujian 7 : mengecek ketika tidak menginputkan apapun pada form login admin
* Scenario pengujian 8 : mengecek validasi halaman admin
* Scenario pengujian 9 : mengecek function Tambah, edit, hapus data penduduk,content,aspirasi warga, dll.
* Scenario pengujian 10 : mengecek tampilan halaman halaman pengguna.

**PENGUJIAN WHITE BOX**

**Point 6**

Pengujian halaman pengguna ,halaman admin, dan halaman login admin



**PENGUJIAN BLACK BOX**

**Point 7**

Pengujian halaman login admin

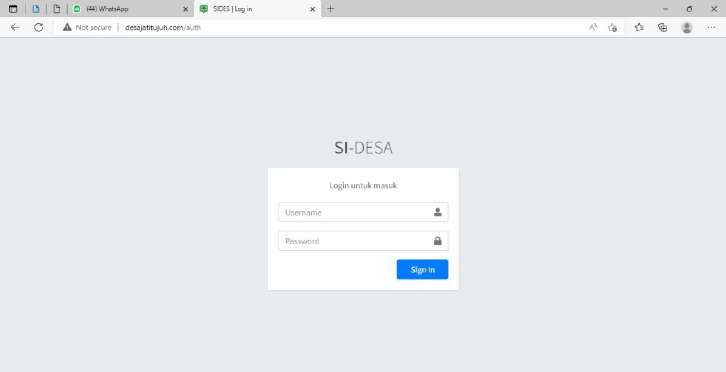
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Skenario Pengujian | Test Case | Hasil yang diharapkan | Hasil Pengujian | Kesimpulan |
| 1 | Username dan Password tidak diisi kemudian klik tombol Sign In | Username : (tidak diisi / kosong)  Password : (tidak diisi/ kosong) | Sistem akan menolak dan menampilkan pesan  “Username dan Password  tidak boleh kosong” | Sesuai harapan | Valid |
| 2 | Mengetikan Username, Password tidak diisi atau kosong kemudian klik  tombol Sign In | Username : admin  Password : (tidak diisi/ kosong) | Sistem akan menolak dan menampilkan pesan  “Password | Sesuai harapan | Valid |
|  |  |  | tidak boleh  kosong” |  |  |
| 3 | Mengetikan Password, Username tidak diisi atau kosong kemudian klik tombol Sign In | Username : (tidak diisi/ kosong)  Password  :admin | Sistem akan menolak dan menampilkan pesan  “Username tidak boleh kosong” | Sesuai harapan | Valid |
| 4 | Mengetikan Username dan Password tidak sesuai (salah), kemudian klik tombol Sign In | Username : Admin  Password : admin123 | Sistem akan menolak dan menampilkan pesan  “Username dan Password  salah” | Sesuai harapan | Valid |
| 5 | Mengetikan Username dan Password sesuai, kemudian klik tombol Sign In | Username : Admin  Password : admin | Sistem menerima akses login dan kemudian menampilkan halaman utama (Dashboard)  Admin | Sesuai harapan | Valid |

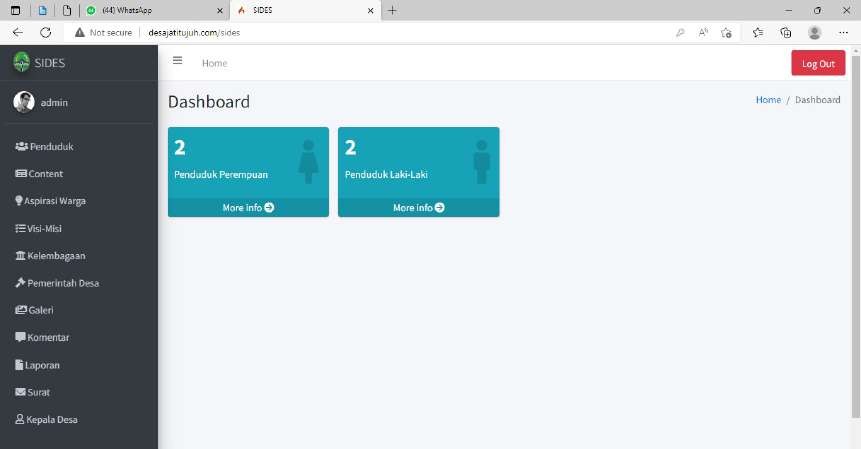
Pengujian halaman login

|  |  |  |  |
| --- | --- | --- | --- |
| No | Fitur | Keterangan | Hasil Pengujian |
| 1 | Login | Sistem validasi | Sesuai |
| 2 | Penduduk | Tambah, edit, hapus data penduduk | Sesuai |
| 3 | Content | Tambah, edit, hapus data Content | Sesuai |
| 4 | Aspirasi Warga | Melakukan pencarian dan hapus data  aspirasi warga | Sesuai |
| 5 | Visi Misi | Mengedit atau menghapus data visi  misi | Sesuai |
| 6 | Kelembagaan | Tambah, edit, hapus data Kelembagaan | Sesuai |
| 7 | Pemerintah  Desa | Tambah, edit, hapus data Pemerintah  Desa | Sesuai |
| 8 | Galeri | Tambah, edit, hapus data galeri | Sesuai |
| 9 | Komentar | Menghapus data Komentar | Sesuai |
| 10 | Laporan | Tambah, edit, hapus data Laporan | Sesuai |
| 11 | Surat | Menghapus data Pemerintah Desa | Sesuai |
| 12 | KepalaDesa | Edit dan hapus data Kepala Desa | Sesuai |
| 13 | Logout | Keluar dari system dan akan ke direct halaman login admin | Sesuai |

Pengujian halaman pengguna

|  |  |  |  |
| --- | --- | --- | --- |
| No | Fitur | Keterangan | Hasil Pengujian |
| 1 | Dashboard  (Beranda) | Menampilkan halaman utama sistem | Sesuai |
| 2 | Profile | Menampilkan halaman sejarah, pemerintahan, visi misi desa, demografi dan kelembagaan | Sesuai |
| 3 | Informasi Public | Menampilkan halaman berita, event dan galeri desa | Sesuai |
| 4 | Pengumuman | Menampilkan informasi atau berta- berita terupdate | Sesuai |
| 5 | Hello Desa | Menampilkan halaman kontak, laporan terkini, dan surat | Sesuai |

Login admin

Dashboard admin

Halaman utama pengunjung

